

PLUBIB.TEX: A BIBLIOGRAPHY OF PLUTO

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- ABBOTT, J. (2005) The status of Pluto. *Jour. Brit. Astron. Assoc.* **115**, 295–296.
- ABEDIN, A.Y. AND KAVELAARS, J.J. (2019) ????. *AGU Fall Meeting Abstracts* **P331**, 3532 (Abstract).
- ABRAHAMIAN, H.V., GIGOIAN, K., KISSELEV, A.A., KISSELEVA, T.P., AND SHAKHT, N.A. (1993) Positional photographic observations of Saturn, Uranus, Neptune, their satellites and Pluto in 1990 with the telescope ZTA-2.6m at Byurakan in Armenia. *Astron. Astrophys. Transactions* **3**, no. 3, 279–285.
- ABRAMENKO, A.N., AVRAMCHUK, V.V., KUCHEROV, V.A., LISINA, L.R., AND PROKOFIEVA, V.V. (1980) The decrease of the brightness of Pluto. *Astron. Tsirkular No. 1100*, Abastumani Observatory, 1–3.
- ABRAMENKO, A.N., AVRAMCHUK, V.V., KUCHEROV, V.A., LISINA, L.R., AND PROKOFIEVA, V.V. (1981) “The reflective properties of Pluto’s surface.” In *Physics of Planetary Atmospheres*, ed. A.V. Morozhenko (Academy of Sciences, Kiev), pp. 148–157.
- ABT, J., CARLETON, N.P., AND MACKAY, C.D. (1983) Methane on Triton and Pluto: new CCD spectra. *Astrophys. Jour.* **270**, 342–350.
- ADAMS, D., GAO, P., FAN, S., GLADSTONE, R., AND YUNG, Y. (2020) Photochemical hazes at Pluto respond to proxies for seasonality. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.07 (Abstract).
- ADAMS, D., BARTH, E., CHEN, S., GAO, P., FAN, S., THIEMANN, E., YOUNG, E., GLADSTONE, R., AND YUNG, Y. (2021) Photochemical hazes at Pluto respond to proxies for seasonality. *Bull. Amer. Astron. Soc.* **53**, 114.05 (Abstract).
- ADAMS, W.S. (1930) Observations of the new planet Pluto. *Annual Report of the Director of the Mount Wilson Observatory* **29**, 159–160.
- ADAMS, W.S. (1931) Pluto. *Annual Report of the Director of the Mount Wilson Observatory* **30**, 196–197.
- ADAMS, W.S. (1933) Planetary investigations. *Annual Report of the Director of the Mount Wilson Observatory* **32**, 159–160.
- ADAMS, W.S. (1933) Magnitude of Pluto. *Annual Report of the Director of the Mount Wilson Observatory* **32**, 145.
- ADAMS, W.S. (1934) The planets and their atmospheres. *Scientific Monthly* **39**, no. 1, 5–19.
- ADAMS, W.S. (1941) Planets and satellites. *Annual Report of the Director of the Mount Wilson Observatory* **40**, 13.
- ADAMS, W.S. (1942) Planets and satellites. *Annual Report of the Director of the Mount Wilson Observatory* **41**, 10.
- ADAMS, W.S. (1945) Planets and satellites. *Annual Report of the Director of the Mount Wilson Observatory* **44**, 9.
- AGNER, M.A. AND ELLIOT, J.L. (1996) Inversion of KAO stellar occultation data for Pluto. *Bull. Amer. Astron. Soc.* **28**, 1079 (Abstract).
- AGNOR, C.B. AND HAMILTON, D.P. (2005) Satellite capture via binary exchange reactions: application to Triton. *Bull. Amer. Astron. Soc.* **36**, 530 (Abstract).

- AGNOR, C.B. AND HAMILTON, D.P. (2006) Neptune’s capture of its moon Triton in a binary-planet gravitational encounter. *Nature* **441**, 192–194.
- A’HEARN , M.F. (2000) “Pluto: an Edgeworth-Kuiper Belt object and/or a planet?” Paper given at *The Transneptunian Population, 24th meeting of the IAU, Joint Discussion 4*, Manchester, England, August, 2000..
- A’HEARN , M.F. (2002) Pluto: a planet or a trans-Neptunian object? *IAU Symposium: Highlights of Astronomy* **12**, 201–204.
- AHRENS, C.J., MCMAHON, Z.M., CHEVRIER, V.F., AND ELWOOD MADDEN, M.E. (2016) Icy composition measurements in simulated Pluto conditions. *Lunar & Planetary Sci.* **47**, 1469 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2017) Investigating a cryovolcanic collapse feature in Cthulhu Region, Pluto. *Lunar & Planetary Sci.* **48**, 1351 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2018) Folding characteristics of Bare Montes, Pluto. *Lunar & Planetary Sci.* **49**, 2728 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2018) Spectral characteristics of carbon monoxide in nitrogen and methane mixtures in simulated Pluto conditions. *Lunar & Planetary Sci.* **49**, 2833 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2018) “Potential mud volcanism type processes on Pluto.” Paper given at *Cryovolcanism in the Solar System Workshop*, 5–7 June 2018, Houston, TX, 2003..
- AHRENS, C.J., GRUNDY, W.M., MANDT, K.E., COOPER, P.D.; UMURHAN, O.M., AND CHEVRIER, V.F. (2019) Recent advancements and motivations of simulated Pluto experiments. *Spa. Sci. Rev.* **214**, no. 8, 130.
- AHRENS, C.J., UMURHAN, O.M., AND CHEVRIER, V. (2019) Overview of thermal and rheological properties of ices on Pluto and other bodies of the outer solar system. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7033 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2019) Spectral behavior of methane in binary and ternary icy mixtures in experimental Pluto conditions. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7034 (Abstract).
- AHRENS, C.J., BYRNE, P.K., AND CHEVRIER, V.F. (2019) Characterizing faults across the surface of Pluto. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7036 (Abstract).
- AHRENS, C.J., EARLE, A.M., AND CHEVRIER, V.F. (2019) Lobate debris aprons observed on Pluto from New Horizons. *Lunar & Planetary Sci.* **50**, 1555 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2019) Spectral and surface characteristics of carbon monoxide on Pluto. *Lunar & Planetary Sci.* **50**, 1552 (Abstract).
- AHRENS, C.J. AND CHEVRIER, V.F. (2019) Compressional ridges on Bare Montes, Pluto as observed by New Horizons. *Geophys. Res. Letters* **46**, no. 24, 14, 328–14, 335.
- AHRENS, C.J. AND CHEVRIER, V.F. (2020) Three’s a crowd: methane-nitrogen-carbon monoxide ternary icy mixtures in experimental Pluto conditions. *Lunar & Planetary Sci.* **51**, 1953 (Abstract).
- AHRENS, C.J. (2020) Modeling cryogenic mud volcanism on Pluto. *Jour. Volcanology and Geothermal Research* **406**, 107070.
- AHRENS, C.J. AND CHEVRIER, V.F. (2021) Investigation of the morphology and interpretation of Hekla Cavus, Pluto. *Icarus* **356**, 104108.
- AIAA DIGITAL AVIONICS TECHNICAL COMMITTEE. (2006) The Year in Review: Information and Logistics Systems: Digital Avionics. *Aerospace America* **44**, no. 12, 45.
- AIDA, H. (1936) Photographic observations of Pluto at Mitaka, Tokyo. *Astron. Nachr.* **260**, 375.
- AIRY, G.B. (1846) Account of some circumstances historically connected with the discovery of the planet exterior to Uranus. *Mon. Not. Roy. Astron. Soc.* **7**, 121–144.

- AIRY, G.B. (1847) Account of some circumstances historically connected with the discovery of the planet exterior to Uranus. *Astron. Nachr.* **25**, 149–160.
- AITKEN, R.G. (1930) The discovery, at Lowell Observatory, of a body that may be a trans-Neptunian planet. *Pub. Astron. Soc. Pacific* **42**, 105–107.
- AITTA, A. (2015) Internal structure of Pluto and Charon with an iron core. Submitted to *arXiv:1510.06604*
- AKSNES, K. (1992) Pluto. *Highlights of Astronomy* **9**, 522–524.
- ALAMANY, M. (1987) Sus eclipses mutuos ayudan a comprender mejor el sistema Plutón-Charonte. *Astrum* **73**, 27.
- ALAMANY, M. (1988) Existencia del atmósfera en Plutón. *Astrum* **82**, 24.
- ALAMANY, M. (1991) Plutón y Charonte resueltos por el Telescopio Espacial Hubble. *Astrum* **96**, no. 1, 24–25.
- ALAMANY, M. (1994) La atmósfera de Plutón podría estar formado de nitrógeno. *Astrum* **115**, vi.
- ALBIN, E.F. AND HARRIS, R.S. (2015) New Horizons at Pluto: an overview of educational activities / outreach at Fernbank Science Center, Atlanta, Georgia (USA). *Bull. Amer. Astron. Soc.* **47**, 219.19 (Abstract).
- ALBRECHT, R., BARBIERI, C., BAXTER, D., BLADES, J.C., BOKSENBERG, A., CRANE, P., DEHARVENG, J.M., DISNEY, M.J., JAKOBSEN, P., JEDRZEJEWSKI, R., KAMPERMAN, T., KING, I.R., MACCHETTO, F., MACKAY, C.D., PARESCHE, F., SPARKS, W.B. AND WEIGELT, G. (1990) First results from the Faint Object Camera: high-resolution imaging of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **22**, 1279 (Abstract).
- ALBRECHT, R., BARBIERI, C., BLADES, J.C., BOKSENBERG, A., CRANE, P., DEHARVENG, J.M., DISNEY, M.J., JAKOBSEN, P., KAMPERMAN, T.M., KING, I.R., MACCHETTO, F., MACKAY, C.D., PARESCHE, F., WEIGELT, G., BAXTER, D., GREENFIELD, P., JEDRZEJEWSKI, R., NOTA, A., AND SPARKS, W.B. (1991) First results from the Faint Object Camera: high-resolution imaging of the Pluto–Charon system. *Astrophys. Jour. Lett.* **374**, 65–67.
- ALBRECHT, R., BARBIERI, C., ADORF, H.M., CORRAIN, G., GEMMMO, A., GREENFIELD, P., HAINAUT, O., HOOK, R.N., THOLEN, D.J., BLADES, J.C., AND SPARKS, W.B. (1994) High-resolution imaging of the Pluto–Charon system with the Faint Object Camera of the Hubble Space Telescope. *Astrophys. Jour. Lett.* **435**, L75–L78.
- ALBRECHT, R. (1995) High-resolution imaging of the Pluto–Charon system with the Faint Object Camera of the Hubble Space Telescope. *Earth, Moon, and Planets* **70**, 207–212.
- ALEXANDR, J. (1999) And now, a new name for Pluto. *Astronomy* **27**, no. 8, 14 (Letter to editor).
- ALLEN, D.A. (1969) Magnitude of Pluto. *The Astronomer* **5**, 176.
- ALLEN, D.A. (1969) Correction to reported Pluto magnitude. *The Astronomer* **6**, 2.
- ALLEN, L.B. (1930) Astronomical discoveries. *Pop. Astron.* **38**, 480–482.
- ALI-DIB, M. (2022) A machine-generated catalogue of Charon’s craters and implications for the Kuiper Belt. *Icarus* **386**, 115142.
- ALLPORT, P.C. (1990) Astronomical research. In *Annual Report of the Carter Observatory 1989–90*, 6.
- ALMEIDA, A.J.C., PEIXINHO, N., AND CORREIA, A.C.M. (2009) Neptune Trojans and Plutinos: colors, sizes, dynamics, and their possible collisions. *Astron. Astrophys.* **508**, 1021–1030.
- ALTENHOFF, W.J. AND WENDKER, H.J. (1982) Wie kalt is Pluto? *Mitt. Astron. Ges. Nachtr.* **55**, 18 (Abstract).
- ALTENHOFF, W.J. (1985) “The solar system: (sub)mm continuum observations” In *Proc. ESO-IRAM-Onsala workshop on (sub)millimeter astronomy* (Garching, West Germany), 591–601.

- ALTENHOFF, W.J., CHINI, R., HEIN, H., KREYSA, E., MEZGER, P.G., SALTER, C.J., AND SCHRAML, J.B. (1988) First radio astronomical estimate of the temperature of Pluto. *Astron. Astrophys.* **190**, L15–L17.
- ALTENHOFF, W.J., BERTOLDI, F. AND MENTEN, K.M. (2004) Size estimates of some optically bright KBOs. *Astron. Astrophys.* **415**, 771–775.
- ALTER, D. (1952) The story of Pluto. *Jour. Roy. Astron. Soc. Canada* **46**, 1–10.
- ALTER, D., BUNTON, G.W., AND ROQUES, P.E. (1951) The diameter of Pluto. *Pub. Astron. Soc. Pacific* **63**, 174–176.
- ALTHAUS, T. (2006) New Horizons auf dem Weg zum Pluto. *Sterne und Weltram* **45**, no. 3, 14–15.
- ALTHAUS, T. (2006) *Pluto and Charon: ice worlds on the ragged edge of the solar system, 2nd edition.* by S.A. Stern and J. Mitton (Book review.) *Sterne und Weltram* **45**, no. 3, 89–90.
- ALVAREZ-CANDAL, A. (2007) *Interrelations and physical properties of asteroids, comets, and trans-Neptunian objects.* Ph. D. dissertation, Rio de Janeiro, Brazil.
- AMARANTE, A. AND WINTER, O.C. (2020) Surface dynamics, equilibrium points and individual lobes of the Kuiper Belt Object (486958) Arrokoth. *Mon. Not. Roy. Astron. Soc.* **496**, no. 4, 4154–4173.
- AMARANTE, A. AND WINTER, O.C. (2022) The fate of particles in the dynamical environment around Kuiper-Belt object (486958) Arrokoth. *Astrophys. Spa. Sci.* **367**, no. 4, 38.
- ANDALAUER, G. (1993) The snow is reddish. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- ANDERSEN, J. (1999) Faits divers. *IAU information bulletin* **84**, 3.
- ANDERSEN, J. (1999) The status of Pluto: a clarification. *Sky and Tel.* **97**, no. 5, 51.
- ANDERSEN, J. (2000) Discover the International Astronomical Union. *Mercury* **29**, no. 1, 32–38.
- ANDERSON, B. (2001) Pluto: the last frontier. *Lunar and Planetary Information Bulletin* **91**, 2.
- ANDERSON, C. (1992) Big projects eat up NASA’s future budgets. *Nature* **359**, 179.
- ANDERSON, C.M. (1996) Pluto: new views from the Hubble Space Telescope. *Planetary Report* **16**, no. 5, 4–9.
- ANDERSON, I. (1985) Eclipses tell more about Pluto’s moon. *New Scientist* **105**, no. 1447, 18.
- ANDERSON, J. (1988) Planet X: fact or fiction? *Planetary Report* **8**, no. 4, 6–9.
- ANDERSSON, L.E. (1973) The orientation of the rotational axis of Pluto. *Bull. Amer. Astron. Soc.* **5**, 36 (Abstract).
- ANDERSSON, L.E., AND FIX, J.D. (1973) Pluto: New photometry and a determination of the axis of rotation. *Icarus* **20**, 279–283.
- ANDERSSON, L.E. (1974) *A photometric study of Pluto and satellites of the outer planets.* Ph. D. dissertation, Indiana University, Bloomington, IN.
- ANDERSSON, L.E. (1978) Eclipse phenomena of Pluto and its satellite. *Bull. Amer. Astron. Soc.* **10**, 586 (Abstract).
- ANDERSSON, L.E. (1978) 1978 P1. *IAU Circular No. 3286*, 3.
- ANDREI, A.H., ATUNES FILHO, V., VIERA MARTINS, R., ASSAFIN, M., DA SILVA NETO, D.N., AND CAMARGO, J.I.B. (2008) Astrometric detection of faint companions — the Pluto/Charon case study. *248th Symp. of the IAU: A Giant Step: from milli- to micro-arcsecond astrometry* **248**, 104–105 (Abstract).
- ANDREW, S. (2007) Migration of Pluto’s small moons. *Bull. Amer. Astron. Soc.* **39**, 318 (Abstract).
- ANTAL, M. AND ANTALOVÁ, A. (1962) Observations of Pluto in 1960. *Bull. Astron. Inst. Czech.* **13**, 26–27.
- ANTAL, M. (1963) Observations of Pluto from 1957 till 1962. *Bull. Astron. Inst. Czech.* **14**, 151–154.
- ANTALOVÁ, A. AND ANTAL, M. (1960) The observations of Pluto in 1959. *Bull. Astron. Inst. Czech.* **11**, 231–232.

- ANTOÑANA, M., ALBERDI, E., MAKAZAGA, J., AND MURUA, A. (2022) An implicit symplectic solver for high-precision long-term integrations of the solar system. *Cel. Mech.DynAstron.* **134**, no. 3, 31.
- ANTONIADI, E.M. (1929) Conjectures sur les planètes hypothétiques transneptuniennes. *L'Astronomie* **43**, 373.
- APPLEBY, G.M. (1988) Book Review: *Stars and Planets*, by P. Moore, Merehurst, London. 128 pp. *The Observatory* **108**, 248.
- APPLEGATE, J.H., DOUGLAS, M.R., GÜRSEL, Y., SUSSMAN, G.J., AND WISDOM, J. (1986) The outer solar system for 200 million years. *Astron. Jour.* **92**, 176–194.
- APT, J., CARLETON, N.P., AND MACKAY, C.D. (1983) Methane on Triton and Pluto: new CCD spectra. *Astrophys. Jour.* **270**, 342–350.
- APT, J. (1983) Frozen methane found on Pluto and Triton. *Astronomy* **11**, no. 4, 62–63.
- ARAKAWA, S., HYODO, R., AND GENDA, H. (2019) Early formation of moons around large trans-Neptunian objects via giant impacts. *Nature Astronomy* **3**, 802–807.
- ARCHER, J.L. (1970) “Mission modes to the outer solar system.” Paper given at *8th Aerospace Sciences Meeting*, West Germany.
- ARCHINAL, B.A., ACTON, C.H., A’HEARN, M.F., CONRAD, A., CONSOLMAGNO, G.J., DUXBURY, T., HESTROFFER, D., HILTON, J.L., KIRK, R.L., KLIONER, S.A., MCCARTHY, D., MEECH, K., OBERST, J., PING, J., SEIDELMANN, P.K., THOLEN, D.J., THOMAS, P.C., WILLIAMS, I.P. (2018) Report of the IAU Working Group on Cartographic Coordinates and Rotational Elements: 2015. *Cel. Mech.& Dyn. Astr.* **130**, no. 3, 22.
- AREND, S. RIGAUX, F., AND ROLAND, G. (1949) Observations photographiques de petites planètes, de comètes et de Pluton à l’Astrographe Double de 40 cm. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **3**, 14–22.
- AREND, S. AND RIGAUX, F. (1949) Observations photographiques de petites planètes, de Saturne, de Pluton et de comètes à l’Astrographe Double de 40 cm. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **4**, 55–61.
- AREND, S. (1950) Observations of Minor Planets and Pluto, made at Uccle. *Minor Planet Circular* **364**, 1.
- AREND, S. AND RIGAUX, F. (1951) Observations photographiques de petites planètes, de Pluton et de la comète Minkowski à l’Astrographe Double de 40 cm. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **4**, 87–99.
- AREND, S. AND RIGAUX, F. (1959) Observations photographiques de petites planètes fait en 1956 a l’Astrographe Double de 40 cm. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **5**, 7–11.
- AREND, S. AND RIGAUX, F. (1963) Observations photographiques de petites planètes, de Pluton et de comètes effectuées au cours de l’année 1962. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **5**, 56–59.
- AREND, S. AND RIGAUX, F. (1969) Observations photographiques de petites planètes et de Pluton, effectuées à l’Astrographe Double de 40 cm au cours de l’année 1967. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **6**, 322–327.
- ARGENT, C. (2007) NASA honours Pluto’s name-giver. *Spa. Res. Today* **168**, 38–40.
- ARIMATSU, K., HASHIMOTO, G.L., KAGITANI, M., SAKANOI, T., KASABA, Y., OHSAWA, R., AND URAKAWA, S. (2020) Evidence for a rapid decrease of Pluto’s atmospheric pressure revealed by a stellar occultation in 2019. *Astron. Astrophys.* **638**, L5.
- ARLOT, J.-E. (1995) “Satellites of Pluto.” In *Transactions of the International Astronomical Union XXIII A Reports on Astronomy*, ed. I. Appenzeller (Kluwer Press, Boston), pp. 227.
- ARLOT, J.E., DOURNEAU, G., AND LECAMPION, J.F. (2008) An analysis of Bordeaux meridian transit circle observations of planets and satellites (1997–2007). *Astron. Astrophys.* **484**, 869–877.

- ARLOT, J.-E. AND EMEL'YANOV, N.V. (2009) The NSDB natural satellites astrometric database. *Astron. Astrophys.* **503**, 631–638.
- ARMAGNAC, A.P. (1930) How they trailed a new planet. *Popular Science Monthly* **116**, June 1930, 27–28, 123–125. ■
- ARMELIN, G. (1900) Communications écrites. *L'Astronomie* **14**, 164.
- ARMINJON, M. (2001) A global parameter optimization in Newtonian mechanics for the ten major bodies of the solar system. *Meccanica* **39**, 17–29.
- ARMINJON, M. (2004) A numerical solution of the inverse problem in classical celestial mechanics, with application to Mercury's motion. *Meccanica* **39**, 17–29.
- ARNETT, B. (2001) Discovery and origins of Pluto. *Lunar and Planetary Information Bulletin* **91**, 2-3, 7.
- ARNOLD, S.J., BOKSENBERG, A., AND SARGENT, W.L.W. (1979) Measurement of the diameter of Pluto by speckle interferometry. *Astrophys. Jour. Lett.* **237**, L159–L163.
- ARNOLD, S.J., BOKSENBERG, A., AND SARGENT, W.L.W., HALLIDAY, I., CRUIKSHANK, D.P., PILCHER, C.P., AND MORRISON, D. (1980) How large is Pluto? In “News Notes,” *Sky and Tel.* **59**, 210.
- ARTEM'EV, A.V. AND RADZIEVSKII, V.V. (1965) The origin of the axial rotation of planets. *Sov. Astron. Jour.* **9**, 96–99.
- ASAMI, A., ASHER, D.J., FUSE, T., HASHIMOTO, N., IBRAHIM, A.I., ISOBE, S., NISHIYAMA, K., OSHIMA, Y., TERAZONO, J., UMEHARA, H., URATA, T., AND YOSHIKAWA, M. (2003) Pluto Observations [300 Bisei Spaceguard Center–BATTeRS]. *Minor Planet Circular* 48617, 1.
- ASAMI, A., ASHER, D.J., FUSE, T., HASHIMOTO, N., IBRAHIM, A.I., ISOBE, S., NISHIYAMA, K., OSHIMA, Y., TERAZONO, J., UMEHARA, H., URATA, T., AND YOSHIKAWA, M. (2003) Pluto Observations [300 Bisei Spaceguard Center–BATTeRS]. *Minor Planet Circular* 49276, 3.
- ASAMI, A., ASHER, D.J., FUSE, T., HASHIMOTO, N., IBRAHIM, A.I., ISOBE, S., NISHIYAMA, K., OSHIMA, Y., TERAZONO, J., UMEHARA, H., URATA, T., AND YOSHIKAWA, M. (2004) Pluto Observations [300 Bisei Spaceguard Center–BATTeRS]. *Minor Planet Circular* 52163, 4.
- ASKER, J.A. (1993) Pluto Fast Flyby slated for 2006. *Aviation Week & Space Technology* **138**, no. 7, 46–51.
- ASKER, J.A. (2002) Get on with the missions to Mars and Pluto. *Aviation Week & Space Technology* **156**, no. 8, 118.
- ASH, M.E., SHAPIRO, I.I., AND SMITH, W.B. (1971) The system of planetary masses. *Science* **174**, 551–556.
- ASHTON, E., GLADMAN, B., KAVELAARS, J.J., JONES, R.L., KRUGHOFF, K.S., ALEXANDERSEN, M., BANNISTER, M.T., CHEN, Y.T., GWYN, S., PETIT, J.M., AND VOLK, K. (2021) OSSOS. XVII. An upper limit on the number of distant planetary objects in the solar system. *Icarus* **356**, 113793.
- ASMAR, S.W. (2011) “URSI-Istanbul: Precision radio science for planetary gravity, atmospheric and surface investigations.” Paper given at *General Assembly and Scientific Symposium, 2011 XXXth URSI*, (13–20 August 2011), Istanbul, Turkey1.
- ASMAR, S.W., ATKINSON, D.H., BELL, D.J., BORDER, J., GRUDININ, I.S., LAZIO, J., MANNUCCI, A.J., PAIK, M., AND PRESTON, R. (2018) Planning radio technologies for future exploration of planetary environments and interiors. *AGU Fall Meeting Abstracts* **P41F**, 3793 (Abstract).
- ASSAFIN, M., VIEIRA MARTINS, R., RIBAS, F.B., CAMARGO, J.I., DA SILVA NETO, D.N., AND ANDREI, A.H. (2008) Astrometric predictions of stellar occultations by Pluto, Charon, Triton and TNOs. *EPSC Abstracts* **3**, 472 (Abstract).
- ASSAFIN, M., CAMARGO, J.I.B., VIEIRA MARTINS, R., ANDREI, A.H., SICARDY, B., YOUNG, L., DA SILVA NETO, D.N., AND BRAGA-RIBAS, F. (2010) Precise predictions of stellar occultations by Pluto, Charon, Nix, and Hydra for 2008–2015. *Astron. Astrophys.* **515**, 515–528.
- ASSAFIN, M., CAMARGO, J.I.B., VIEIRA-MARTINS, R., BRAGA-RIBAS, F., SICARDY, B., ANDREI, A.H., AND DA SILVA NETO, D.N. (2012) Candidate stellar occultations by large trans-Neptunian objects up to 2015. *Astron. Astrophys.* **541**, A142.

- ASSOCIATED PRESS, THE AND DUNN, M. (2015) *New Horizons: rediscovering Pluto*. (The Associated Press, Coral Gables, FL), 166 pp pp.
- ATREYA, S.K., AND CALDWELL, J.J. (1981) Planetary aeronomy and astronomy, Proceedings of the topical meeting, Budapest, Hungary, June 2–4, 1980. *Advances in Space Research* **1**, no. 9, 220 pp.
- ATREYA, S.K., NIEMANN, H.B., MAHAFFY, P.R., AND OWEN, T.C. (2006) Origin and evolution of nitrogen on Titan, Enceladus, Triton, and Pluto. *EPSC Abstracts* **1**, 86 (Abstract).
- ATWELL, C.A. (1948) Twenty-nine satellites. *Sky and Tel.* **7**, 153–155.
- AUMANN, H.H. AND WALKER, R.G. (1987) IRAS observations of the Pluto–Charon system. *Astron. Jour.* **94**, 1088–1091.
- AUGOSTO, P. (2007) Another way to define “Planet.” *Sky and Tel.* **114**, no. 1, 12 (Letter to editor).
- AUSTIN, S.A. (2009) Growing minority student interest in Earth and Space Science with suborbital and space-related investigations. *AGU Fall Meeting Abstracts* **ED53B**, 0539 (Abstract).
- AUSTIN, J.V. AND GOLDSTEIN, D.B. (1996) Direct numerical simulation of Pluto’s extended atmosphere. *Bull. Amer. Astron. Soc.* **28**, 1079 (Abstract).
- AVDELLIDOU, C., DELBO, M., NESVORNÝ, WALSH, K.J., AND MORBIDELLI, A. (2024) Dating the Solar System’s giant planet orbital instability using enstatite meteorites. *Science* **384**, no. 6639, 348–352.
- AVRAMCHUK, V.V., RAKHIMOV, V.YU., CHERNOVA, G.P., AND SHAVLOVSKII, V.I. (1992) Photometry and polarimetry of Pluto near its perihelion position. *Kinematika i Fizika Nebesnykh Tel* **8**, no. 4, 37–45.
- ‘U.B.’ (1980) Sonnen- und Mondfinsternisse auf Pluto. *Sterne und Weltram* **19**, 251–252.
- BAADE, W. (1931) Beobachtungen des Pluto am Spiegelteleskop der Hamburger Sternwarte. *Astron. Nachr.* **242**, 367.
- BAADE, W. (1934) The photographic magnitude and color index of Pluto. *Pub. Astron. Soc. Pacific* **46**, 218–221.
- BAADE, W. (1938) Beobachtungen des Pluto am Spiegelteleskop der Hamburger Sternwarte. *Mitteilungen der Hamburger Sternwarte in Bergedorf* **7**, 44.
- BABADZHANYANTS, L.K. AND BABADZHANYANZ, L.K. (1971) A method of integration of the equations of planetary motion in rectangular coordinates: the Pluto perturbations from Neptune. *Nablyud. Iskusstv. Nebesn. Tel.* **62**, 5–21.
- BABCOCK, H.W. (1974) Pluto. *Annual Report of the Director of the Hale Observatories* **73**, 132.
- BABCOCK, H.W. (1978) Infrared observations of planets. *Annual Report of the Director of the Hale Observatories* **77**, 723.
- BABCOCK, H.W. (1978) The diameter of Pluto. *Annual Report of the Director of the Hale Observatories* **77**, 723–724.
- BABER, S.W. (1989) Occultations. In *Annual Report of the Carter Observatory 1988–89*, 4–5.
- BABINET, J. (1848) Sur la position actuelle de la planète située au dela de Neptune, et provisoirement nomée Hypérion. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **27**, 202–208.
- BACKMAN, D.E. AND REACH, W.T. (2015) Planetary science with the Stratospheric Observatory for Infrared Astronomy (SOFIA). *Bull. Amer. Astron. Soc.* **47**, 312.17 (Abstract).
- BADOLATI, E. (1981) La scoperta di Plutone. *G. Astron.* **7**, 285–295.
- BAEZ, W., WOOD., M., AND SILVER, I. (2010) Preliminary results from a hydrodynamic simulation of the direct impact (DI) accretion model with PLUTO. *Bull. Amer. Astron. Soc.* **36**, 1133 (Abstract).
- BAGENAL, F., AND MCNUTT, JR., R. (1989) The solar wind interaction with Pluto’s atmosphere. *Eos* **70**, 382 (Abstract).
- BAGENAL, F. (1989) Pluto’s interaction with the solar wind. *Bull. Amer. Astron. Soc.* **21**, 986 (Abstract).

- BAGENAL, F. AND MCNUTT, JR., R.L. (1989) Pluto’s interaction with the solar wind. *Geophys. Res. Letters* **16**, 1229–1232.
- BAGENAL, F., STERN, S.A., AND FARQUAR, R. (1990) Flyby missions to Pluto–Charon. *Bull. Amer. Astron. Soc.* **22**, 1129 (Abstract).
- BAGENAL, F., CRAVENS, T., LUHMANN, J., MCNUTT, JR., R., AND CHENG, A. (1993) Pluto’s interaction with the solar wind. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BAGENAL, F. (2014) The solar wind interaction with Pluto’s escaping atmosphere. *AGU Fall Meeting Abstracts* **P31E**, 03 (Abstract).
- BAGENAL, F., DELAMERE, P.A., ELLIOTT, H.A., HILL, M.E., LISSE, C.M., MCCOMAS, D.J., MCNUTT, JR., R.L., RICHARDSON, J.D., SMITH, C.W., AND STROBEL, D.F. (2015) Solar Wind at 33 AU: setting bounds on the Pluto interaction for New Horizons. *Jour. Geophys. Res.* **120**, no. 9, 1497–1511.
- BAGENAL, F., NEW HORIZONS, P., AND NEW HORIZONS, S. (2007) New Horizons exploration of the Jovian magnetotail. *AGU Fall Meeting Abstracts* **SM53A**, 1077 (Abstract).
- BAGENAL, F., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., OLKIN, C., MCCOMAS, D.J., MCNUTT, R.L., HORANYI, M., ELLIOT, H.A., HILL, M.E., ZERNSTEIN, E., KOLLMAN, P., KRIMIGIS, S.M., LISSE, C.M., STROBEL, D.F., SZALAY, J., AND PIQUETTE, M. (2015) Solar wind interaction with Pluto’s escaping atmosphere. *Bull. Amer. Astron. Soc.* **47**, 100.06 (Abstract).
- BAGENAL, F., HORÁNYI, M., MCCOMAS, D.J., MCNUTT, JR., R.L., ELLIOTT, H.A., HILL, M.E., BROWN, L.E., DELAMERE, P.A., KOLLMANN, P., KRIMIGIS, S.M., KUSTERER, M., LISSE, C.M., MITCHELL, D.G., PIQUETTE, M., POPPE, A.R., STROBEL, D.F., SZALAY, J.R., VALEK, P., VANDEGRIFF, J., WEIDNER, S., ZIRNSTEIN, E.J., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SCIENCE TEAM. (2016) Pluto’s interaction with its space environment: Solar wind, energetic particles, and dust. *2016 Science*, 351no. 6279, 1282.
- BAGENAL, F., MCNUTT, R.L., MCCOMAS, D.J., HILL, M.E., KOLLMANN, P., LISSE, C.M., DELAMERE, P.A., BARNES, N.P., AND NEW HORIZONS SCIENCE TEAM. (2019) Pluto Interaction with the Heliosphere. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7053 (Abstract).
- BAGHERI, A., KHAN, A., DESCHAMPS, F., SAMUEL, H., KRUGLYAKOV, M., AND GIARDINI, D. (2021) The tidal-thermal evolution of the Pluto–Charon system. *Icarus* **376**, 114871.
- BAGHERI, A., KHAN, A., DESCHAMPS, F., SAMUEL, H., KRUGLYAKOV, M., AND GIARDINI, D. (2024) Corrigendum to “The tidal-thermal evolution of the Pluto–Charon system.” *Icarus* **415**, 116046.
- BAGHERI, A., KHAN, A., SAMUEL, H., DESCHAMPS, F., KRUGLYAKOV, M., AND GIARDINI, D. (2022) The tidal–thermal evolution of the Pluto–Charon system. *Lunar & Planetary Sci.* **53**, 1493 (Abstract).
- BAIER, G., HETTERICH, N., AND WEIGELT, G. (1982) Digital speckle interferometry of Juno, Amphitrite and Pluto’s moon Charon. *ESO Messenger* **30**, 23–26.
- BAIER, G. AND WEIGELT, G. (1984) Photon-counting speckle interferometry of Pluto’s moon Charon in 5 different nights. *Angewandte Optik* **36–37**.
- BAIER, G. AND WEIGELT, G. (1987) Speckle interferometric observations of Pluto and its moon Charon on seven different nights. *Astron. Astrophys.* **174**, 295–298.
- BAILEY, M.E. (1983) Is there a dense primordial cloud of comets just beyond Pluto? *Asteroids, Comets, and Meteorites* **1983**, 383–386 (Abstract).
- BAILEY, S.M., CORDELLA, L.L., PRYOR, W.R., MCCLINTOCK, W.E., LAWRENCE, G.M., AND SOLOMON, S.C. (1993) Theoretical models of Pluto’s UV spectrum. *Bull. Amer. Astron. Soc.* **25**, 1131 (Abstract).
- BAILLAUD, B. (1910) Sur les progrès de l’astronomie. *L’Astronomie* **24**, 227.

- BAINES, KEVIN H., MOMARY, T.W., SIMON-MILLER, A.A., REUTER, D.C., JENNINGS, D.E., LUNSFORD, A., WEAVER, H.A., CHENG, A.F., SPENCER, J., GLADSTONE, G.R., MOORE, J., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM. (2007) New Horizons at Jupiter: new views of Jovian meteorology, circulation, and lightning. *Bull. Amer. Astron. Soc.* **39**, 437 (Abstract).
- BAINES, K., MOMARY, T., SIMON-MILLER, A., REUTER, D., JENNINGS, D., WEAVER, H., CHENG, A., SPENCER, J., GLADSTONE, R., AND STERN, A. (2008) “New Horizons at Jupiter: new views of Jovian meteorology, circulation, waves and lightning.” Paper given at *37th COSPAR Scientific Assembly. 13–20 July 2008, Montréal, Canada, p. 359*, .
- BAINES, K.H., FLETCHER, L.N., MOMARY, T.W., WEST, R.A., ATREYA, S.K., BROWN, R.H., SHOWMAN, A.P., AND SIMON-MILLER, A.A. (2008) Saturn and Jupiter: surprising similarities and stark differences in dynamics and chemistry in the gas giants as revealed by Galileo, Cassini, and New Horizons. *AGU Fall Meeting Abstracts* **P21B**, 05 (Abstract).
- BAKICH, M.E. (2022) Catch Pluto this summer: Planet or not, Pluto is a worthy target. *Astronomy* **50**, no. 8, 25–27..
- BAKOS, G. (1965) Observations of asteroids and of Pluto made with an image orthicon tube. *Astron. Jour.* **70**, 171–175.
- BALDET, F. (1930) Observations à la grande lunette de Meudon, du corps céleste découvert à l’Observatoire Lowell. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 790–791.
- BALDET, F. (1930) Sur le calcul du diamètre photométrique du corps céleste de l’Observatoire Lowell. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 857.
- BALDET, F. (1930) Le corps céleste transneptunienne découverte à l’Observatoire Lowell. *L’Astronomie* **44**, 212–215.
- BALDET, F. (1930) Le corps céleste transneptunien. *L’Astronomie* **44**, 228.
- BALDET, F. (1930) Le corps céleste Lowell. *L’Astronomie* **44**, 335.
- BALDET, F. (1930) Footnote to: Communications verbales. *L’Astronomie* **44**, 542.
- BALDET, F. (1930) ??? *Jour. Brit. Astron. Assoc.* **40**, 248.
- BOWMAN, A.F. (2004) “Exploring Triton with multiple landers.” Paper given at *56th International Astronautical Congress*, Fukuoka, Japan, IAC paper #05-A.3.2.A.09.
- BALKLAUS, A. (1979) Pluto. *Zvaigsnota Debess* **85**, 22.
- BALL, J.E. AND DUXBURY, T.C. (1970) Navigating the Grand Tours. *Astronautics and Aeronautics* **8**, no. 9, 73–76.
- BALLANTYNE, H.A., ASPHAUG, E., DENTON, C.A., EMSENHUBER, A., AND JUTZI, M. (2022) Sputnik Planitia as an impactor remnant: an ancient mascon in a frozen ice mantle. *Lunar & Planetary Sci.* **53**, 2268 (Abstract).
- BALLANTYNE, H.A., ASPHAUG, E., DENTON, C.A., EMSENHUBER, A., AND JUTZI, M. (2024) Sputnik Planitia as an impactor remnant: an ancient mascon in a frozen ice mantle. *Nature Astronomy* doi:10.1038/s41550-024-02248-1, April 2024.
- BALLARDINI, A. (1988) Monografías sobre planetas: Plutón. *Rev. Astron.* **58**, no. 244, 15–17.
- BALMINO, G. (1981) Gravity field and rotation of planets. A review from the point of view of planetary geodesy. *Ann. de Geophysique* **37**, 161–167.
- BANACHIEWICZ, T. (1930) Chronique de l’Observatoire Astronomique de Cracovie concernant Pluton 1930 mars—août. *Cracow Obs. Cir.* **26**, 3–8.
- BANACHIEWICZ, T. (1930) Primo orbita de corpore coeleste transneptunico. *Acta Astron.* **1 Série C**, 99–100.
- BANACHIEWICZ, T. (1930) Elements of the Transneptunian body. *Acta Astron.* **1 Série C**, 103–107.

- BANACHIEWICZ, T. (1930) Sur la détermination de l'orbite de Pluton. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **191**, 246–248.
- BANACHIEWICZ, T. (1930) Une méthode nouvelle de la détermination de l'orbite d'un astre transneptunien. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **191**, 319–321.
- BANACHIEWICZ, T. (1936) Observations photographiques de Pluton. *Bull. de l'Académie Polonaise de Sci. et Lettres, Classe des Sciences Mathématiques et Naturelles. Série A: Sciences Mathématiques*, 22–26.
- BANACHIEWICZ, T. (1936) Photographic observations of the planet Pluto. *Nature* **137**, 318.
- BANDY, R.E., LAKSHMINARAYAN, C., FROST, R.K., AND ZWIER, T.S. (1992) Direct detection of C₄H₂ photochemical products: possible routes to complex hydrocarbons in planetary atmospheres. *Science* **258**, 1630–1633.
- BANKS, T., AND BUDDING, E. (1990) Information limit optimisation techniques applied to recent photometry of Pluto. *Earth, Moon, and Planets* **49**, 15–23.
- BARANSKY, A., LUKINA, O., AND BORYSENKO, S. (2020) Astrometric and photometric observations of six brightest trans-Neptunian objects at the Kyiv comet station. *Advances in Astron. & Space Physics* **10**, 48–54.
- BARBATO, J.P. AND AYER, E.A. (1981) “Uranus, Neptune, and Pluto. Ch. 8” In *Atmospheres: a view of the gaseous envelopes surrounding members of our solar system* (New York, Pergamon Press), 282.
- BARBIER, D. (1930) Sur l'astre decouvert à l'Observatoire Lowell. *Jour. des Observateurs* **13**, 78–80.
- BARBIER, D. AND DE GRANDCHAMPS, R. (1931) Positions de la planète Pluton obtenues à l'Equatorial photographique de la Carte du Ciel à l'Observatoire d'Paris. *Jour. des Observateurs* **14**, 12.
- BARBIERI, C., CAPACCIOLI, M., GANZ, R., AND PINTO, G. (1972) Astrometric programs being carried out at the Padova and Asiago observatories. *Mem. della Società Astronomica Italiana* **43**, 635.
- BARBIERI, C., CAPACCIOLI, M., GANZ, R., AND PINTO, G. (1972) Accurate positions of the planet Pluto in the years 1969–1970. *Astron. Jour.* **77**, 521–522.
- BARBIERI, C., CAPACCIOLI, M., AND PINTO, G. (1975) “Astrometric positions of the planet Pluto in the years 1971–74.” In *ESRO Space Astrometry* (T.D. Nguyen and B.T. Battrick, eds.), 101–102.
- BARBIERI, C., CAPACCIOLI, M., AND PINTO, G. (1975) Astrometric positions of the planet Pluto in the years 1971–1974. *Astron. Jour.* **80**, 412–418.
- BARBIERI, C., BENACCHIO, L., CAPACCIOLI, M., PINTO, G., AND SCHOENMAKER, A.A. (1979) Accurate positions of the planet Pluto from 1974 to 1978. *Astron. Jour.* **84**, 1890–1893.
- BARBIERI, C., CAPACCIOLI, M., AND GEMMO, A.G. (1988) Accurate positions of the planet Pluto from 1979 to 1987. *Astron. Jour.* **96**, 396–399.
- BARBIERI, C., BENACCHIO, L., CAPACCIOLI, M., AND GEMMO, A.G. (1989) Studies of the planet Pluto at Asiago Observatory. *Mem. della Società Astronomica Italiana* **60**, 79–90.
- BARBLAN, F. (1996) L'Univers, dis-moi ce que c'est? Planètes: épisode 8. *Orion* **54**, no. 276, 227–231.
- BARBUZANO, J. (2018) First official Pluto feature names. *Sky and Tel.* **135**, no. 1, 12..
- BARENTSEN, G. AND KEPLER TEAM. (2016) The Solar System Survey by NASA's K2 Mission. *AAS Meeting no. 227*, 421.02 (Abstract).
- BARKER, E.S., COCHRAN, W.D., AND COCHRAN, A.L. (1980) Spectrophotometry of Pluto from 3500 to 7350 Å. *Icarus* **44**, 43–52.
- BARKER, E.S., STERN, S.A., BROSCHE, N., VAN SANTVOORT, J., CLARKE, J.T., GLADSTONE, G.R., AND TRAFTON, L.M. (1989) Near UV reflectivity of two hemispheres of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **21**, 986 (Abstract).
- BARKER, E.S., STERN, S.A., AND TRAFTON, L.M. (1991) Rotationally resolved, ground-based studies of the near UV reflectivity of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **23**, 1209 (Abstract).

- BARKER, E.S., STERN, S.A., AND NA, C.Y. (1993) Rotationally resolved spectra near minimum phase of the Pluto–Charon system. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BARKIN, I.U.V. (1987) “Resonant motions of systems of rigid bodies in the solar system.” In *Proceedings of the European Regional Astronomy Meeting of the IAU, Vol. 3* (Prague, Czechoslovakia), 63–69.
- BARKLAY, C.D. AND MERTEN, C.W. (1997) International shipment of light weight radioisotopic heater units (LWRHU) using the USA/9516/B(U)F Mound 1 kW shipping package in support of the “Pluto Express” mission. *AIP Conference Proceedings* **387**, 1447–1452.
- BARNES, J., JACOBSON, S., AND SCHWARTZ, S. (2020) Simulating gravitational collapse in the Kuiper Belt. *Bull. Amer. Astron. Soc.* **52**, no. 1, 211.06 (Abstract).
- BARNES, N.P. AND DELAMERE, P.A. (2018) Characterizing the kinetic solar wind interaction at Pluto. *AGU Fall Meeting Abstracts* **P51H**, 2967 (Abstract).
- BARNES, N.P. AND DELAMERE, P.A. (2019) Hybrid simulations of Pluto’s solar wind interaction. *Pluto System After New Horizons*, LPI Contribution No. 2133, Larchmont, MD, 2019 July 14–18, 7076 (Abstract).
- BARNES, N.P., DELAMERE, P.A., STROBEL, D.F., BAGENAL, F., MCCOMAS, D.J., ELLIOTT, H.A., VALEK, P., WEAVER, H.A., ENNICO, K., YOUNG, L.A., AND STERN, S.A. (2019) Constraining the IMF at Pluto using New Horizons SWAP data and hybrid simulations. *Jour. Geophys. Res.: Space Physics* **124**, 1568–1581.
- BARNES, N.P. AND DELAMERE, P.A. (2019) Global structure and time variation of Pluto’s plasma wake. *AGU Fall Meeting Abstracts* **P33I**, 3542 (Abstract).
- BARNES, P.J. (1993) A search for CO emission from the Pluto–Charon system. *Astron. Jour.* **106**, 2540–2543.
- BARNES, P. (1997) CO in the atmospheres of Pluto and Triton. *170th Symp. of the IAU: CO: twenty-five years of millimeter-wave spectroscopy* **170**, 403.
- BARNES-SWANNEY, P. (1999) On the edge. *Popular Science* **254**, no. 1, 32.
- BARR, A.C. AND COLLINS, G.C. (2013) Despinning and tidally driven tectonics in the Pluto–Charon binary system. *AGU Fall Meeting Abstracts* **P44A**, 1744.
- BARR, A.C. AND COLLINS, G.C. (2015) Tectonic activity on Pluto after the Charon-forming impact. *Icarus* **246**, 146–155.
- BARR, A.C. AND COLLINS, G.C. (2015) Tectonic activity on Pluto after the Charon-forming impact. *Icarus* **246**, 146–155.
- BARR, A.C. AND SCHWAMB, M.E. (2016) Interpreting the densities of the Kuiper belt’s dwarf planets. *Mon. Not. Roy. Astron. Soc.* **460**, 1542–1548.
- BARR, A.C. (2016) Planetary science: Pluto’s telltale heart. *Nature* **540**, no. 7631, 42–43.
- BARRETT, H.G.S. AND ROBINSON, W.H. (1930) Positions of the new planet from photographs taken at the Radcliffe Observatory, Oxford. *Mon. Not. Roy. Astron. Soc.* **90**, 610–611.
- BARTLETT, S. (2006) Pluto left out in the cold. *The Lancet* **368**, no. 9538, 828.
- BARTH, E.H. (2018) “Hydrocarbon condensation on Titan and Pluto: comparisons using PlanetCARMA.” Paper given at *Comparative Climatology of Terrestrial Planets III: From Stars to Surfaces, held 27-30 August, 2018, in Houston, Texas. LPI Contribution No. 2065, id. 2051.*, .
- BARTH, E.L., DUBOIS, D., SCIAMMA-O’BRIEN, E.M., IRACI, L.T., SALAMA, F., AND VINATIER, S. (2019) The PlanetCARMA Microphysics Model and application to benzene cloud formation at Titan’s south pole. *AGU Fall Meeting Abstracts* **P33A**, 04 (Abstract).
- BARTRUM, C.O. AND SELLERS, F.J. (1930) Report of the Meeting of the Association: held on Wednesday, December 31, 1930, at Sion College, Victoria Embankment, B.C. *Jour. Brit. Astron. Assoc.* **41**, 109.
- BARTH, E.L. (2014) Haze particles and condensation in Pluto’s atmosphere explored through microphysical modeling. *AGU Fall Meeting Abstracts* **P33B**, 4036 (Abstract).

- BARUCCI, M.A., MERLIN, F., DOTTO, E., DORESSOUDIRAM, A., AND DEBERGH, C. (2006) TNO surface ices: observations of the TNO 55638 (2002 VE₉₅) and analysis of the population’s spectral properties. *Astron. Astrophys.* **455**, 725–730.
- BARUCCI, M.A., BROWN, M.E., EMERY, J.P., AND MERLIN, F. (2008) “Composition and surface properties of transneptunian objects and Centaurs.” In *The Solar System Beyond Neptune*, M.A. Barucci, H. Boehnhardt, D.P. Cruikshank, and A. Morbidelli, eds. (Tucson: Univ. Arizona Press), pp. 143–160.
- BATTERSBY, S. (2015) Charon’s secrets. *New Scientist* **226**, no. 3025, 33.
- BAUER, B.A. AND REID, W.M. (2007) Automating the Pluto experience: an examination of the New Horizons Autonomous Operations Subsystem. *Proceedings of the 2007 IEEE Aerospace Conference* **1**, 1–10.
- BAUER, B.A. (2008) Lights-out scenario testing for the New Horizons Autonomous Operations Subsystem. *Proceedings of the 2008 IEEE Aerospace Conference* **1**, 1–8.
- BAUM, W.A. (1987) Planetary research at Lowell Observatory. *Reports of Planetary Astronomy—1986 NASA Technical Memorandum 100776*, 4–5 (Abstract).
- BAUM, W.A. (1988) Planetary research at Lowell Observatory. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 7–8 (Abstract).
- BAYLESS, A.J., GLADSTONE, G.R., CHAUFRAY, J.-Y., RETHERFORD, K.D., STEFFL, A.J., STERN, S.A., AND SLATER, D.C. (2011) The nightglow spectrum of Jupiter as seen by the Alice UV Spectrograph on New Horizons. *EPSC Abstracts* **6**, 1474 (Abstract).
- BAZILEVSKII, A.T. AND KRESLAVSKII, M.A. (1992) Volcanism and tectonics on planets and satellites of the solar system: dependence on size and orbital period. *Astron. Vestnik* **26**, no. 6, 66–76.
- BEALL, A. (2022) Pinpointing Pluto. *New Scientist* **255**, no. 3395, 52.
- BEATTY, J.K. (1983) Planetary satellites: an update. *Sky and Tel.* **66**, 405–407.
- BEATTY, J.K. (1985) Pluto and Charon: the dance begins. *Sky and Tel.* **69**, 501–502.
- BEATTY, J.K. (1987) Pluto and Charon: the dance goes on. *Sky and Tel.* **74**, 248–251.
- BEATTY, J.K. (1988) Shadow boxing. *Air and Space* **3**, no. 4, 28–29.
- BEATTY, J.K. AND KILLIAN, A. (1988) Discovering Pluto’s atmosphere. *Sky and Tel.* **76**, 624–627.
- BEATTY, J.K. (1988) Mutual event update. *Sky and Tel.* **76**, 627.
- BEATTY, J.K. (1995) Hubble’s worlds. *Sky and Tel.* **89**, no 2, 20–25.
- BEATTY, J.K. (1999) Pluto reconsidered: what to call the “little planet with the big moon” has become a cause célèbre. *Sky and Tel.* **97**, no. 5, 48–52.
- BEATTY, J.K. (2001) Giants found lurking in the Kuiper Belt. *Sky and Tel.* **102**, no. 3, 26–27.
- BEATTY, J.K. (2003) Pluto’s warming atmosphere. *Sky and Tel.* **105**, no. 1, 30.
- BEATTY, J.K. (2016) Pluto’s amazing story. *Sky and Tel.* **132**, no. 4, 14–21.
- BEATTY, J.K. (2016) Pluto’s perplexing atmosphere. *Sky and Tel.* **132**, no. 6, 36–40.
- BEATTY, J.K. (2016) New Horizons: Part 3. Charon and company. *Sky and Tel.* **132**, no. 5, 18–21.
- BEATTY, J.K. (2019) News Notes: Solar System: First views of distant object “Ultima Thule”. *Sky and Tel.* **137**, no. 4, 8.
- BENCHKOURA, A.I. (1996) *Modelisation du transport de volatils à la surface des planètes et satellites glacés du système solaire: application à Triton et Pluton*. Ph. D. dissertation, Université Joseph Fourier, Grenoble.
- BERMAN, R. (1998) Black on black. *Discover* **19**, no. 6, 34.
- BERMAN, R. (2006) Goodbye, Pluto. *Astronomy* **34**, no. 12, 14.

- BEAUCHAMP, P.M., BROWN, R.H., BRUCE, C.F., CHRISP, M.P., FRASCHETTI, F.A., KRABACH, T.N., PETRICK, S.W., RODGERS, D.H., RODRÍGUEZ, J., SOLL, S.L., VAUGHAN, A.H., SODERBLOM, L.A., SANDEL, B.R., AND YELLE, R.V. (1995) Pluto Integrated Camera Spectrometer (PICS) instrument. *Acta Astron.* **35**, (supplemental issue) 99–108.
- BEAUCHAMP, P.M., BROWN, R.H., BRUCE, C.F., CHEN, G.-S., CHRISP, M.P., FRASCHETTI, F.A., KRABACH, T.N., PETRICK, S.W., RODGERS, D.H., RODRÍGUEZ, J., SOLL, S.L., VAUGHAN, A.H., SODERBLOM, L.A., SANDEL, B.R., AND YELLE, R.V. (1995) Pluto Integrated Camera Spectrometer (PICS) instrument. *Proc. SPIE* **2214**, 269–277.
- BEAUCHAMP, P., MCKINNON, W., AND OPAG TECHNOLOGY DS WHITE PAPER TEAM. (2009) Technologies required to support the Outer Planets Exploration Strategy for 2013–2022. *Bull. Amer. Astron. Soc.* **41**, 16.23 (Abstract).
- BEAUVALET, L., LAINEY, V., AND ARLOT, J.P. (2009) Determination of masses in Pluto’s system from astrometry. *Bull. Amer. Astron. Soc.* **41**, 47.04 (Abstract).
- BEAUVALET, L., LAINEY, V., ARLOT, J.-E., AND BINZEL, R.P. (2012) Dynamical parameter determinations in Pluto’s system. Expected constraints from the New Horizons mission to Pluto. *Astron. Astrophys.* **540**, A65–A73.
- BEAUVALET, L., ROBERT, V., LAINEY, V., ARLOT, J.-E., AND COLAS, F. (2013) ODIN: a new model and ephemeris for the Pluto system. *Astron. Astrophys.* **553**, A14–A25.
- BECHTOLD, K.E., BUCIOR, S.E., AND SEPAN, R.L.H. (2010) “Operations challenges for missions with significant round-trip light times.” Paper given at *SpaceOps 2010 Conference*, Huntsville, AL, AIAA paper #2010-2166.
- BECKMANN, G.W.E. (1980) Pluto tussen 1930 en 1978: de grenzen van het meetbare. *Zenit* **7e**, 50–51.
- BEDDINGFIELD, C.B., BEYER, R.A., SINGER, K., NIMMO, F., MCKINNON, W.B., MOORE, J.M., ENNICO, K., OLKIN, C.B., SCHENK, P., SPENCER, J.R., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS TEAM. (2018) Landslides in the Serenity Chasma Region, Charon. *Lunar & Planetary Sci.* **49**, 2378 (Abstract).
- BEDDINGFIELD, C.B., BEYER, R.A., SINGER, K.N., MCKINNON, W.B., RUNYON, K., GRUNDY, W., STERN, S.A., BRAY, V., DHINGRA, R., MOORE, J.M., ENNICO, K., OLKIN, C.B., SCHENK, P., SPENCER, J.R., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS TEAM. (2020) Landslides on Charon. *Icarus* **335**, no. 1, 113383.
- BEDDINGFIELD, C.B., BEYER, R., CARTWRIGHT, R.J., SINGER, K., ROBBINS, S., STERN, S.A., BRAY, V., MOORE, J.M., ENNICO, K., OLKIN, C.B., SPENCER, J.R., WEAVER, H.A., YOUNG, L.A., VERBISCHER, A., AND PARKER, J. (2020) Polygonal impact craters on Charon. *Lunar & Planetary Sci.* **51**, 1241 (Abstract).
- BEEBE, H.A. AND BEEBE, R.F. (1980) Pluto—the ninth planet’s golden year. *Icarus* **44**, 1.
- BEEBE, R. (1983) Planetary atmospheres. *Rev. Geophys. Spa. Phys.* **21**, 143–151.
- BEEBE, R. (1995) Hubble Space Telescope results in planetary sciences. *Rev. Geophys.* **33**, 489–495.
- BEEBE, R. (1997) Obituaries: Clyde William Tombaugh. *Physics Today* **50**, no. 7, 77.
- BEEBE, R. (1997) Obituaries: Clyde William Tombaugh. *Bull. Amer. Astron. Soc.* **29**, 1493–1494.
- BEEKMAN, G.W.E. (1974) Pluto’s zichtbare pool kan zuid en noord zijn. *Zenit* **1**, no. 6, 23.
- BEEKMAN, G. (1995) Pluto en der vele dwergen. *Zenit* **22**, no. 2, 52–56.
- BEEKMAN, G.W.E. (1997) Pluto en Charon: een klein, koelen kwetsbaar duo. *Zenit* **24**, 308–311.
- BEER, P. (1980) Book Review: *The planet Pluto*, by A.J. Whyte *Vistas in Astronomy* **24**, 375.
- BEESELEY, D.E. (1973) Distance and period of a Transplutonian planet. *Irish Astron. Jour.* **11**, 138–139.
- BEISKER, W. (1980) Pluto bedekt stern 12. Größ *Sterne und Weltram* **19**, 112–113.

- BEISKER, W., ANDERSON, P., BALL, L., BALL, J.-J., BUECHNER, R., DENZAU, H., DUNHAM, D.W., HUMMEL, E., NEILSEN, G., SANFORD, J., AND SICARDY, B. (1999) “The investigation of planetary atmospheres by stellar occultations.” Paper given at *Research Amateur Astronomy in the VLT Era*, Solar Eclipse August 1999 Symposium held at ESO, Garching, Germany, August 7–13, 1999..
- BEISSER, K., MATIELLA NOVAK, M., BUTLER, L., AND TURNEY, D. (2010) From the Sun to Pluto and Beyond — inspiring the next generation of explorers. *AGU Fall Meeting* **ED23A**, 0697 (Abstract).
- BELBRUNO, E. AND GREEN, J. (2022) When leaving the solar system: Dark matter makes a difference. *Mon. Not. Roy. Astron. Soc.* **510**, no. 4, 5154–5163..
- BELETIC, J.W., GOODY, R.M., AND THOLEN, D.J. (1988) Orbital elements of Charon from speckle interferometry. *Icarus* **79**, 38–46.
- BELETIC, J.W., GOODY, R.M., AND THOLEN, D.J. (1988) Ephemeris and magnitude of Charon. *Bull. Amer. Astron. Soc.* **17**, 714 (Abstract).
- BELETIC, J.W. AND GOODY, R.M. (1992) Recovery of planetary images by speckle imaging. *Applied Optics* **31**, no. 32, 6909–6921.
- BELGACEM, I., SCHMIDT, F., AND JONNIAUX, G. (2019) Merging datasets for photometric study. *ESPC–DPS Joint Meeting* **13**, 789B (Abstract).
- BELGACEM, I., SCHMIDT, F., AND JONNIAUX, G. (2020) Regional study of Europa’s photometry. *Icarus* **338**, 113525.
- BELGACEM, I., SCHMIDT, F., AND JONNIAUX, G. (2020) Image processing for precise geometry determination. *Planetary and Spa. Sci.* **193**, 185081.
- BELJAWSKY, S. (1931) Beobachtungen von Kometen und von Pluto. *Astron. Nachr.* **242**, 261.
- BELIKOV, M.V. (1987) *Modification of the Gauss method and its application to the determination of the secular perturbations of Pluto*. (Inst. Teor. Astron. Akad. Nauk SSR), 67 pp.
- BELL, J.F., CLARK, R.N., MCCORD, T.B., AND CRUIKSHANK, D.P. (1979) Reflection spectra of Pluto and three distant satellites. *Bull. Amer. Astron. Soc.* **11**, 570 (Abstract).
- BELL, P.M. (1983) Methane ice on Pluto and Triton. *Eos* **64**, 73.
- BELOT, É. (1921) La planète transneptunienne. *L’Astronomie* **35**, 437.
- BELOT, É. (1921) ????. *L’Astronomie* **35**, 386–394.
- BELOT, É. (1927) Neptune et la planète transneptunienne. *L’Astronomie* **41**, 19.
- BELOT, É. (1930) Origine et formation de Pluton d’après la Cosmologie dualiste. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **192**, 147–148.
- BELOT, É. (1933) Causes originelles de l’excentricité de orbites de la Lune, de Pluton et des petites planètes. *L’Astronomie* **47**, 65–68.
- BELOUSOV, D.V. AND PAVLOV, A.K. (2024) Cometary outbursts in the Oort Cloud. *Icarus* **415**, , 116066.
- BENAVIDEZ, P.G., BAGATIN, A.C., CURRY, J., ÁLVAREZ-CANDAL, Á., AND VINCENT, J.B. (2022) Collisional evolution of the trans-Neptunian region in an early dynamical instability scenario. *Mon. Not. Roy. Astron. Soc.* **514**, no. 4, 4876–4893.
- BENAVIDEZ, P., CAMPO BAGATIN, A., ÁLVAREZ-CANDAL, Á., AND VINCENT, J.B. (2022) “Early collisional evolution of TNOs.” Paper given at *16th Europlanet Science Congress 2022, 18–23 September 2022*, Palacio de Congresos de Granada, Spain. EPSC2022-873.
- BENDER, D.F. (1994) Jupiter gravity assist trajectories to objects in the Kuiper Belt. *A.S.P. Conference Series* **107**, 259–263.
- BENECCHI, S.D., BUIE, M.W., PORTER, S.B., SPENCER, J.R., VERBISCHER, A.J., STERN, S.A., ZANGARI, A.M., PARKER, A., AND NOLL, K.S. (2017) The HST lightcurve of (4806958) 2014 MU₆₉. *Bull. Amer. Astron. Soc.* **49**, 504.07 (Abstract).

- BENECCHI, S.D., LISSE, C.M., RYAN, E.L., BINZEL, R.P., SCHWAMB, M.E., YOUNG, L.A., AND VERBISCHER, A.M. (2018) K2 precision lightcurve: Twelve days in the Pluto-Charon system. *Icarus* **314**, 265–273.
- BENECCHI, S.D., BORNCAMP, D., PARKER, A.H., BUIE, M.W., NOLL, K.S., BINZEL, R.P., STERN, S.A., VERBISCHER, A.J., KAVELAARS, J.J., ZANGARI, A.M., SPENCER, J.R., AND WEAVER, H.A. (2019) The color and binarity of (486958) 2014 MU₆₉ and other long-range New Horizons Kuiper Belt targets. *Icarus* **334**, 22–29.
- BENECCHI, S.D., BUIE, M.W., PORTER, S.B., SPENCER, J.R., VERBISCHER, A.J., STERN, S.A., ZANGARI, A.M., PARKER, A., AND NOLL, K.S. (2019) The HST lightcurve of (486958) 2014 MU₆₉. *Icarus* **334**, 11–21.
- BENNE, B., DOBRIJEVIC, M., CAVALIÉ, T., LOISON, J.C., AND HICKSON, K.M. (2022) A photochemical model of Triton’s atmosphere with an uncertainty propagation study. Submitted to *arXiv:2209.04324*.
- BENNE, B., DOBRIJEVIC, M., CAVALIÉ, T., LOISON, J.C., AND HICKSON, K. (2022) “A photochemical model of Triton’s atmosphere with an uncertainty propagation study.” Paper given at *16th Europlanet Science Congress 2022, 18–23 September 2022*, Palacio de Congresos de Granada, Spain. EPSC2022-139.
- BENEDETTI-ROSSI, G., VIEIRA MARTINS, R., CAMARGO, J.I.B., ASSAFIN, M., AND BRAGA-RIBAS, F. (2014) Pluto: improved astrometry from 19 years of observations. *Astron. Astrophys.* **570**, A86–A97.
- BENNER, D.C. (1979) *The visual and near infrared spectrum of methane and its application to Uranus, Neptune, Triton, and Pluto*. Ph. D. diss., Univ. of Arizona, Tucson, AZ.
- BENNER, D.C., FINK, U. AND CROMWELL, R.H. (1977) Image tube spectra of Pluto and Triton from 6800 to 9000 Å. *Bull. Amer. Astron. Soc.* **9**, 536 (Abstract).
- BENNER, D.C., FINK, U. AND CROMWELL, R.H. (1978) Image tube spectra of Pluto and Triton from 6800 to 9000 Å. *Icarus* **36**, 82–91.
- BENNETT, G.L., PILCHER, C.B., SMITH, W.L., AND STETSON, D.S. (1994) An overview of NASA projected mission requirements for space nuclear systems. *Acta Astron.* **34**, 1–16.
- BENNETT, G.L., LOMBARDO, J.J., HEMLER, R.J., SILVERMAN, G., WHITMORE, C.W., AMOS, W.R., JOHNSON, E.W., SCHOCK, A., ZOCHER, R.W., KEENAN, T.K., HAGAN, J.C., AND ENGLEHART, R.W. (2006) “Mission of daring: the General-Purpose Heat Source Radioisotope Thermoelectric Generator.” Paper given at *4th International Energy Conversion Engineering Conference*, San Diego, CA. AIAA paper #2006-4096.
- BENNETT, G.L. (2006) “Space nuclear power: opening the final frontier.” Paper given at *4th International Energy Conversion Engineering Conference*, San Diego, CA. AIAA paper #2006-4191.
- BENNETT, G.L., LOMBARDO, J.J., HEMLER, R.J., SILVERMAN, G., WHITMORE, C.W., AMOS, W.R., JOHNSON, E.W., ZOCHER, R.W., HAGAN, J.C., AND ENGLEHART, R.W. (2008) “The General-Purpose Heat Source Radioisotope Thermoelectric Generator: a truly general-purpose space RTG.” In *Space Technology and Applications International Forum—STAIF 2008*, ed. M.S. El-Genk (AIP Conf. Proc. 969), pp. 663–671.
- BENOIT, A. (1899) Planètes transneptuniennes. *L’Astronomie* **13**, 494–497.
- BENSCHOP, J.G. (1970) Pluto’s origin. *New Scientist* **45**, no. 682, 31 (Letter to editor).
- BERNSTEIN, P. (1994) Mission possible: probing the last planet. *Odyssey* **3**, no. 8, 32–33.
- BERKOWITZ, R. (2021) Pluto’s tilt explains ice sheet’s history. *Physics* **14**, 146.
- BERLAGE, H.P. (1968) “70. Neptune and its satellites.” In *The origin of the solar system* (Permagon Press, NY), 113–115.
- BERLAGE, H.P. (1968) “71. The question of Pluto.” In *The origin of the solar system* (Permagon Press, NY), 113–115.

- BENARDINI, J., SEASLY, E., SPRY, J.A., AND BAKER, A. (2022) Planetary Protection Compliance of NASA missions past, present and future. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, PPP.2-0003-22*, (Abstract).
- BERNARDONI, E., HORÁNYI, M., DONER, A., PIQUETTE, M., SZALAY, J.R., POPPE, A.R., JAMES, D., HUNZIKER, S., STERKEN, V., STRUB, P., OLKIN, C., SINGER, K.N., SPENCER, J., STERN, A., AND WEAVER, H. (2022) Planetary Sci. Jour. **3** no. **3**, **69**, .
- BERMAN, R. (2001) Calling Pluto's moon. *Astronomy* **29**, no. 914.
- PÄHTZ, T., DUÁN, O., AND COMOLA, F. (2022) Scaling and phase diagrams of planetary sediment transport. Submitted to *arXiv:2203.11236*
- BERNARDONI, E., HORÁNYI, M., DONER, A., PIQUETTE, M., SZALAY, J.R., POPPE, A.R., JAMES, D., HUNZIKER, S., STERKEN, V., STRUB, P., OLKIN, C., SINGER, K.N., SPENCER, J., STERN, A., AND WEAVER, H. (2022) Student Dust Counter status report: the first 50 AU. *Planetary Sci. Jour.* **3**, no. **3**, 69.
- BERNHARD, H.J. (1937) January marks anniversary of the discovery of Neptune and Pluto. *The Sky* **1**, 14–15, 23–25.
- BERNSTEIN, G.M., TRILLING, D.E., ALLEN, R.L., BROWN, M.E., HOLMAN, M. AND MALHOTRA, R. (2004) The size distribution of trans-Neptunian bodies. *Astron. Jour.* **128**, no. 3, 1364.
- BERNSTEIN, G.M., TRILLING, D.E., ALLEN, R.L., BROWN, M.E., HOLMAN, M. AND MALHOTRA, R. (2006) Erratum: The size distribution of trans-Neptunian bodies (*AJ*, **128**, 1364 [2004]). *Astron. Jour.* **131**, no. 4, 2164.
- BERNSTEIN, M.P., CRUIKSHANK, D.P., AND SANDFORD, S.A. (2005) Near IR spectra of laboratory H₂O–CH₄ ice mixtures. *Icarus* **181**, 302–308.
- BERNSTEIN, M., SANDFORD, S., AND CRUIKSHANK, D. (2006) Near IR spectra of H₂O/CH₄ and H₂O/CO₂ ice mixtures of relevance to the outer solar system. *Bull. Amer. Astron. Soc.* **38**, 566 (Abstract).
- BERNSTEIN, M.P., MASTRAPA, R., AND SANDFORD, S. (2006) Near IR spectra and real and imaginary indices of refraction of ices of relevance to KBOs. *AGU Fall Meeting P13C*, 0185 (Abstract).
- BERRY, K.L., SIDES, S.C., EDMUNDSON, K.L., SUCHARSKI, T.L., AND TITUS, T.N. (2016) Support for New Horizons instruments within ISIS3. *Lunar & Planetary Sci.* **47**, 2526 (Abstract).
- BERRY, R. (1980) Mysterious Pluto. *Astronomy* **8**, no. 7, 14–22.
- BERRY, R. (1986) Planetary astronomers meet in Baltimore. *Astronomy* **14**, 28.
- BERRY, R. (1991) Serendipitous discoveries. *Astronomy* **19**, no. 3, 6.
- BERTOLDI, F., ALTENHOFF, W., WEISS, A., MENTEN, K. M., AND THUM, C. (2006) The trans-neptunian object UB₃₁₃ is larger than Pluto. *Nature* **439**, 563–564.
- BERTRAND, T. AND FORGET, F. (2015) Modeling the seasonal evolution of the surface distribution of N₂, CH₄ and CO ices on Pluto to interpret New Horizons observations. *Bull. Amer. Astron. Soc.* **47**, 210.20 (Abstract).
- BERTRAND, T. AND FORGET, F. (2016) A 3D Global Climate Model of the Pluto atmosphere coupled to a volatile transport model to interpret New Horizons observations, including the N₂, CH₄, and CO cycles and the formation of organic hazes. *Geophys. Res. Abstracts* **18**, EGU2016–15811 (Abstract).
- BERTRAND, T. AND FORGET, F. (2016) Observed glacier and volatile distribution on Pluto from atmosphere-topography processes. *Nature* **540**, no. 7631, 86–89.
- BERTRAND, T. AND FORGET, F. (2016) Investigating the present and past glacial and frost activity on Pluto with a volatile transport model. *Bull. Amer. Astron. Soc.* **48**, no. 7, 108 (Abstract).
- BERTRAND, T. AND FORGET, F. (2017) High resolution 3D global climate modeling of Pluto's atmosphere to interpret New Horizons observations. *Bull. Amer. Astron. Soc.* **49**, 105.06 (Abstract).
- BERTRAND, T. AND FORGET, F. (2017) 3D modeling of organic haze in Plutos atmosphere. *Icarus* **287**, 72–86.

- BERTRAND, T., FORGET, F., UMURHAN, O.M., GRUNDY, W.M., SCHMITT, B., PROTOPAPA, S., ZANGARI, A.M., WHITE, O.L., SCHENK, P.M., SINGER, K.N., STERN, A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., OLKIN, C.B. (2018) The nitrogen cycles on Pluto over seasonal and astronomical timescales. *Icarus* **309**, 277–296.
- BERTRAND, T., AND FORGET, F. (2019) How seasonal methane snow forms on Pluto on mountain’s tops, crater rims and slopes. *AGU Fall Meeting Abstracts* **P42C**, 06 (Abstract).
- BERTRAND, T. AND FORGET, F. (2019) Elevation-dependant CH₄ condensation on Pluto: what are the origins of the observed CH₄ snow-capped mountains? *ESPC–DPS Joint Meeting* **13**, 435B (Abstract).
- BERTRAND, T., FORGET, F., TOIGO, A., AND HINSON, D. (2019) Pluto’s atmosphere dynamics: how the nitrogen heart regulates the circulation. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7017 (Abstract).
- BERTRAND, T., FORGET, F., WHITE, O., SCHMITT, B., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND OLKIN, C.B. (2020) Pluto’s beating heart regulates the atmospheric circulation: results from high-resolution and multiyear numerical climate simulations. *Jour. Geophys. Res.Planets* **125**, no. 2, E006120.
- BERTRAND, T., FORGET, F., SCHMITT, B., WHITE, O., AND GRUNDY, W.M. (2020) Equatorial mountains on Pluto are covered by methane frosts resulting from a unique atmospheric process. *Nature Communications* **11**, 5056.
- BERTRAND, T., LELLOUCH, E., HOLLER, B.J., YOUNG, L.A., SCHMITT, B., MARQUES OLIVEIRA, J., SICARDY, B., FORGET, F., GRUNDY, W.M., MERLIN, F., VANGVICHITH, M., MILLOUR, E., SCHENK, P., HANSEN, C., WHITE, O., MOORE, J., STANSBERRY, J., OZA, A., DUBOIS, D., QUIRICO, E., AND CRUIKSHANK, D. (2022) Volatile transport modeling on Triton with new observational constraints. *Icarus* **373**, 114764.
- BETZ, E. AND KELLY, R. (2015) NASA’s fading outer solar system presence. *Astronomy* **43**, no. 11, 16.
- BETZ, E. (2015) Cosmic world: a look at the best and the worst that astronomy and space science have to offer. *Astronomy* **43**, no. 11, 18.
- BEYER, R.A., BARNOUIN, O., ENNICO, K., MOORE, J., NIMMO, F., OLKIN, C.B., SCHENK, P., SPENCER, J., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2015) The Chasmata and Montes of Charon. *Bull. Amer. Astron. Soc.* **47**, 102.06 (Abstract).
- BEYER, R.A., NIMMO, F., MCKINNON, W., MOORE, J., SCHENK, P., SINGER, K., SPENCER, J., WEAVER, H., YOUNG, L., ENNICO, K., OLKIN, C., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM. (2016) Tectonics of Charon. *Lunar & Planetary Sci.* **47**, 2714 (Abstract).
- BEYER, R., SINGER, K.N., NIMMO, F., MOORE, J.M., MCKINNON, W.B., SCHENK, P.M. SPENCER, J.R., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., ENNICO, K., STERN, S.A., AND THE NEW HORIZONS SCIENCE TEAM (2016) Landslides on Charon and not on Pluto. *Bull. Amer. Astron. Soc.* **48**, no. 7, 109 (Abstract).
- BEYER, R.A., NIMMO, F., MCKINNON, W.B., MOORE, J.R., BINZEL, R.P., CONRAD, J.W., CHENG, A., ENNICO, K., LAUER, T.R., OLKIN, C.N., ROBBINS, S., SCHENK, P., SINGER, K., SPENCER, J.R., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND ZANGARI, A.M. (2017) Charon tectonics. *Icarus* **287**, 161–174.
- BEYER, R.A., SPENCER, J.R., MCKINNON, W.B., MOORE, J.M., ROBBINS, S.J., SCHENK, P., SINGER, K., WEAVER, H., YOUNG, L.A., ENNICO, K., OLKIN, C.B., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM. (2017) Geology of Vulcan Planum, Charon. *Lunar & Planetary Sci.* **48**, 2679 (Abstract).
- BEYER, R.A., SPENCER, J.R., NIMMO, F., BEDDINGFIELD, C., GRUNDY, W.M., MCKINNON, W.B., MOORE, J., ROBBINS, S., RUNYON, K., SCHENK, P., SINGER, K., WEAVER, H., YOUNG, L.A., ENNICO, K., OLKIN, C., STERN, S.A., AND THE NEW HORIZONS SCIENCE TEAM. (2018) “Charon’s smooth plains.” Paper given at *Cryovolcanism in the Solar System Workshop*, 5–7 June 2018, Houston, TX, 2031.

- BEYER, R.A., SPENCER, J., MCKINNON, W.B., NIMMO, F., BEDDINGFIELD, C., GRUNDY, W., ENNICO, K., KEANE, J.T., MOORE, J.M., OLKIN, C.B., ROBBINS, S., RUNYON, K.D., SCHENK, P.M., SINGER, K.N., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2018) The nature and origin of Charon's smooth plains. *Bull. Amer. Astron. Soc.* **50**, 506.08 (Abstract).
- BEYER, R.A., SPENCER, J., MCKINNON, W.B., NIMMO, F., BEDDINGFIELD, C., GRUNDY, W., ENNICO, K., KEANE, J.T., MOORE, J.M., OLKIN, C.B., ROBBINS, S., RUNYON, K.D., SCHENK, P.M., SINGER, K.N., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS TEAM (2019) The nature and origin of Charon's smooth plains. *Icarus* **323**, 16–32.
- BEYER, R.A., SCHENK, P., MOORE, J., BEDDINGFIELD, C., WHITE, O., MCKINNON, W., SPENCER, J., STERN, S., YOUNG, L., OLKIN, C., ENNICO, K., WEAVER, H., NEW HORIZONS SCIENCE TEAM. (2019) High-resolution pixel-scale topography of Pluto and Charon. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7042 (Abstract).
- BEYER, R.A., SPENCER, J., ROBBINS, S., SINGER, K., BEDDINGFIELD, C., GRUNDY, W., ENNICO, K., KEANE, J., MCKINNON, W., MOORE, J., NIMMO, F., OLKIN, C., RUNYON, K., SCHENK, P., STERN, A., WEAVER, H., YOUNG, L., AND NEW HORIZONS SCIENCE TEAM. (2019) Geology of Charon. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7035 (Abstract).
- BEYER, R.A., WEAVER, H.A., PORTER, S.B., GRUNDY, W.M., MOORE, J.M., BEDDINGFIELD, C.B., LAUER, T.R., OLKIN, C.B., PARKER, J.W., ROBBINS, S.J., SCHENK, P.S., SHOWALTER, M.R., SPENCER, J.R., STERN, S.A., VERBISCHER, A.J., ZANGARI, A.M., AND NEW HORIZONS TEAM. (2019) Potential mapping schemes and reference systems for MU69. *Lunar & Planetary Sci.* **50**, 2258 (Abstract).
- BEYER, R., PORTER, S., SCHENK, P., SPENCER, J., BEDDINGFIELD, C., GRUNDY, W., KEANE, J., LAUER, T., MOORE, J., OLKIN, C., PARKER, J., STERN, A., UMURHAN, O., VERBISCHER, A., AND WEAVER, H. (2019) Stereo topography of KBO (486958) 2014 MU₆₉. *ESPC–DPS Joint Meeting* **13**, 849B (Abstract).
- BEYER, R.A., SPENCER, J.R., MCKINNON, W.B., MOORE, J.M., ROBBINS, S.J., SCHENK, P., SINGER, K.N., BEDDINGFIELD, C.B., LAUER, T.R., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM (2020) The far side of Charon. *Lunar & Planetary Sci.* **51**, 2427 (Abstract).
- BEYER, R., BEDDINGFIELD, C., BIERSON, C., MCKINNON, W., MOORE, J., ROBBINS, S., SINGER, K., STERN, S., LAUER, T., SCHENK, P., SPENCER, J., WEAVER, H., YOUNG, L., ENNICO, K., OLKIN, C., AND THE NEW HORIZONS SCIENCE TEAM. (2020) Investigating the far side of Charon. *Bull. Amer. Astron. Soc.* **52**, no. 6, 105.06 (Abstract).
- BEYER, R.A., ROBBINS, S.J., BEDDINGFIELD, C., BIERSON, C.J., ENNICO, K., LAUER, T.R., MCKINNON, W.B., MOORE, J.M., KIRBY RUNYON, K., OLKIN, C.B., SCHENK, P.M., SINGER, K.N., SPENCER, J.R., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2021) Charon's far side geomorphology. *Planetary Sci. Jour.* **2**, no. 4, 141.
- BHATIA, G.K. AND SAHJIPAL, S. (2018) Thermal evolution of trans-Neptunian objects, icy satellites, and minor icy planets in the early solar system. *Meteoritics & Planetary Science* **52**, no. 12, 2470–2490.
- BHATTACHARJEE, Y. (2006) A name to remember. In “Newsmakers” *Science* **313**, 167.
- BI, D.W., NATRAJ, V., ZENG, Z., LUO, Y., AND YUNG, Y.L. (2020) Retrieval of Pluto's spectral surface albedo from New Horizons measurements. *Bull. Amer. Astron. Soc.* **52**, no. 6, 310.01 (Abstract).
- BIANCIARDI, G. (2006) Attività fotometrica di Plutone nel 2005. *Astronomia. La rivista dell'Unione Astrofili Italiani* **3**, 28–29.
- BIERHAUS, E.B. AND DONES, L. (2015) Craters and ejecta on Pluto and Charon: anticipated results from the New Horizons flyby. *Icarus* **246**, 165–182.
- BIERSON, C.J., NIMMO, F., AND MCKINNON, W.B. (2016) Testing for a compositional difference between Pluto and Charon. *Lunar & Planetary Sci.* **47**, 2176 (Abstract).

- BIERSON, C.J., NIMMO, F., AND MCKINNON, W.B. (2018) Implications of the observed Pluto–Charon density contrast. *Icarus* **309**, 207–219.
- BIERSON, C.J., UMURHAN, O.M., ROBBINS, S.J., LISSE, C., NIMMO, F., BEYER, R.A., SCHENK, P., KEANE, J.T., MOORE, J.M., MCKINNON, W.B., VERBISCHER, A., PARKER, J., OLKIN, C.B., WEAVER, H.A., SPENCER, J.R., STERN, S.A., NH GEOLOGY, GEOPHYSICS, AND IMAGING TEAM (2019) Limb topography of 2014 MU69: first results from the New Horizons flyby. *Lunar & Planetary Sci.* **50**, 1944 (Abstract).
- BIERSON, C.J., NIMMO, F., STERN, S.A., OLKIN, C.B., WEAVER, H.A., YOUNG, L., AND ENNICO, K. (2020) The plausibility of an ocean on Pluto shortly after accretion. *Lunar & Planetary Sci.* **51**, 1497 (Abstract).
- BIERSON, C.J. AND NIMMO, F. (2020) Corrigendum to “Using the density of Kuiper Belt Objects to constrain their composition and formation history” [*Icarus* **326** (2019): 10–17]. *Icarus* **351**, 113955.
- BILLS, B.G. AND SYNNOTT, S.P. (1987) Planetary geodesy. *Rev. Geophys.* **25**, 833–839.
- BILYEU GORDON, B. (2001) Let’s go to Pluto. *Astronomy* **29**, no. 2, 6.
- BILYEU GORDON, B. (2001) Changing status. *Astronomy* **29**, no. 5, 6.
- BILYEU GORDON, B. (2002) Getting to the last planet. *Astronomy* **30**, no. 5, 6.
- BINZEL, R.P. AND MULHOLLAND, J.D. (1983) Photometry of Pluto during the 1982 opposition. *Astron. Jour.* **88**, 222–225.
- BINZEL, R.P. AND MULHOLLAND, J.D. (1984) Photometry of Pluto during the 1983 opposition: A new determination of the phase coefficient. *Astron. Jour.* **89**, 1759–1761.
- BINZEL, R.P., TEDESCO, E.F., THOLEN, D.J. (1985) Occultation and transit phenomena of Pluto and its satellite. *IAU Circular No. 4040*, 1.
- BINZEL, R.P., THOLEN, D.J., TEDESCO, E.F., BURATTI, B.J., AND NELSON, R.M. (1985) The detection of eclipses in the Pluto–Charon system. *Science* **228**, 1193–1195.
- BINZEL, R.P. AND FRUEH, M.L. (1986) Pluto–Charon mutual events: 1986 observations. *Bull. Amer. Astron. Soc.* **18**, 937 (Abstract).
- BINZEL, R.P. (1987) Hemispherical color asymmetry on Charon? *Bull. Amer. Astron. Soc.* **19**, 859 (Abstract).
- BINZEL, R.P., FRUEH, M.L., AND MULHOLLAND, J.D. (1987) Pluto–Charon mutual events: a midseason report. *Bull. Amer. Astron. Soc.* **19**, 1071 (Abstract).
- BINZEL, R.P. (1987) Photometry of Pluto–Charon mutual events and Hirayama family asteroids. *Reports of Planetary Astronomy—1986 NASA Technical Memorandum 100776*, 11 (Abstract).
- BINZEL, R.P. (1988) Photometry of Pluto–Charon mutual events and Hirayama family asteroids. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 19–20 (Abstract).
- BINZEL, R.P. (1988) Observations of Pluto–Charon mutual events. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 183 (Abstract).
- BINZEL, R.P. (1988) Hemispherical color differences on Pluto and Charon. *Science* **241**, 1070–1072.
- BINZEL, R.P. (1988) A new look at Pluto. *Bull. Amer. Astron. Soc.* **20**, 805 (Abstract).
- BINZEL, R.P. (1988) Pluto–Charon surface mapping from mutual event lightcurves. *Bull. Amer. Astron. Soc.* **20**, 807 (Abstract).
- BINZEL, R.P. (1989) The surface albedo distribution on Pluto: Preliminary results. *Bull. Amer. Astron. Soc.* **20**, 1089 (Abstract).
- BINZEL, R.P. (1989) Pluto–Charon mutual events: overview and preliminary results. *Eos* **70**, 381 (Abstract).
- BINZEL, R.P. (1989) Observations of Pluto–Charon mutual events. *Reports of Planetary Astronomy—1989 NASA Technical Memorandum 4120*, 15 (Abstract).

- BINZEL, R.P. (1989) Observations of Pluto–Charon mutual events. *Reports of Planetary Astronomy—1989 NASA Technical Memorandum 4120*, 141 (Abstract).
- BINZEL, R.P. (1989) Pluto–Charon mutual events. *Geophys. Res. Letters* **16**, 1205–1208.
- BINZEL, R.P. (1990) Long term variations of a volatile methane reservoir on Pluto. *Lunar & Planetary Sci.* **21**, 87–88 (Abstract).
- BINZEL, R.P. (1990) Pluto. *Sci. Amer.* **262**, no. 6, 50–58.
- BINZEL, R.P. (1990) Pluto. *Spektrum Wiss.* **8**, 108–116.
- BINZEL, R.P. (1990) Member’s Dialog. *Planetary Report* **10**, no. 1, 3 (Abstract).
- BINZEL, R.P. (1990) Long-term seasonal variations on Pluto. *Bull. Amer. Astron. Soc.* **22**, 1128 (Abstract).
- BINZEL, R.P. (1990) Photometry of Pluto–Charon mutual events and Hirayama family asteroids. *Reports of Planetary Astronomy—1990 NASA Technical Memorandum 4205*, 15 (Abstract).
- BINZEL, R.P., YOUNG, E.F., AND DITCHBURN, E.S. (1991) Insolation history on Pluto: implications for frost models. *Bull. Amer. Astron. Soc.* **23**, 1216–1217 (Abstract).
- BINZEL, R.P. (1991) Photometry of Pluto–Charon mutual events and Hirayama family asteroids. *Reports of Planetary Astronomy—1991 NASA Technical Memorandum 4329*, 13–14 (Abstract).
- BINZEL, R.P. (1993) 1991 Urey Prize Lecture: Physical evolution in the solar system—Present observations as a key to the past. *Icarus* **100**, 274–287.
- BINZEL, R.P. AND HUBBARD, W.B. (1993) Mutual events and occultations by the Pluto–Charon system. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BINZEL, R.P. (1994) Planet politics. *Sky and Tel.* **88**, 8 (Letter to editor).
- BINZEL, R.P. (1996) Pluto update: surface already mapped, photos prove to be model image. *Physics Today* **49**, no. 7, 92–93 (Letter to editor).
- BINZEL, R.P. (2006) Planetary science: Pluto’s expanding brood. *Nature* **439**, 924–925.
- BINZEL, R.P., EARLE, A.M., BUIE, M.W., YOUNG, L.A., STERN, S.A., OLKIN, C.B., ENNICO, K., MOORE, J.M., GRUNDY, W.M., WEAVER, H.A., LISSE, C.M., LAUER, T.R., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS IMAGING TEAM. (2016) Climate zones on Pluto and Charon. *Icarus* **287**, 30–36.
- BIRATH, E. AND ROSE, D. (2012) “Science operations tools for the New Horizons encounter with Pluto.” Paper given at *SpaceOps 2012 Conference*, Stockholm, Sweden, AIAA paper #2012-1295397.
- BIRCH, P.V. AND BOWERS, C.L. (1987) The 1987 May 28th inferior conjunction of the Pluto/Charon system. *Aust. Phys.* **24**, 222–227.
- BIRCH, P.V. AND BOWERS, C.L. (1988) The 1987 May 28th inferior conjunction of the Pluto/Charon system. *Phys. Abstr.* **91**, #17749.
- BIRCH, P.V. AND UMURHAN, O.M. (2024) Retention of CO ice and gas within 486958 Arrokoth. *Icarus* **413**, 116027.
- BIRD, M., LINSKOTT, I., HINSON, D., TYLER, G.L., AND STROBEL, D.F. (2017) Radio thermal emission from Pluto and Charon during the New Horizons encounter. *Bull. Amer. Astron. Soc.* **49**, 215.07 (Abstract).
- BIRD, M.K., LINSKOTT, I.R., TYLER, G.L., HINSON, D.P., PÄTZOLD, M., SUMMERS, M.E., STROBEL, D.F., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., ENNICO, K., MOORE, J.M., GLADSTONE, J.R., GRUNDY, W.M., DEBOY, C.C., VINCENT, M., AND NEW HORIZONS SCIENCE TEAM. (2019) Radio thermal emission from Pluto and Charon during the New Horizons encounter. *Icarus* **322**, 192–209.

- BIRD, M.K., LINSKOTT, I.R., HINSON, D.P., TYLER, G.L., STROBEL, D.F., PÄTZOLD, M., SUMMERS, M.E., HAHN, M., ANDERT, T.P., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., GLADSTONE, G.R., OLKIN, C.B., MOORE, J.M., GRUNDY, W.M., DEBOY, C.C., AND VINCENT, M. (2019) Radio Science Experiment (REX) on New Horizons: results from the Pluto flyby. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7018 (Abstract).
- BIRD, M., LINSKOTT, I., HINSON, D., TYLER, L., STROBEL, D., PÄTZOLD, M., SUMMERS, M., STERN, A., WEAVER, H., YOUNG, L., ENNICO, K., GLADSTONE, R., OLKIN, C., MOORE, J., GRUNDY, W., DEBOY, C., AND VINCENT, M. (2019) New Horizons REX radiometry at Pluto and Charon. *ESPC–DPS Joint Meeting* **13**, 413B (Abstract).
- BIRD, M.K., LINSKOTT, I.R., TYLER G.L., UMURHAN, O.M., BEYER, R.A., GRUNDY, W.M., LISSE, C.M., HINSON, D.P., PÄTZOLD, M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., SPENCER, J.R., SINGER, K.N., MOORE, J.M., GLADSTONE, G.R., DEBOY, C.C., VINCENT, M., PORTER, S.B., AND THE NEW HORIZONS SCIENCE TEAM. (2022) Detection of radio thermal emission from the Kuiper Belt Object (486958) Arrokoth during the New Horizons encounter. *Planetary Sci. Jour.* **3**, no. 5, 109.
- BIRKHOFF, G.D. (1938) Fifty years of American mathematics. *Science* **88**, no. 2290, 461–467.
- BIRRANE, E., WILLIAMS, S., AND MEHOKE, D. (2006) “Software controlled thermal power management on New Horizons.” Paper given at *Space 2006*, San Jose, CA, AIAA paper #2006.7289.
- BIRRIEL, J. (2016) Defining a planet: it turns out that this is no easy task, and it really isn’t a new problem either. *Mercury* **45**, no. 18–9.
- BJORAKER, G.L., JENNINGS, D.E., AND REUTER, D.C. (1993) Synthetic spectra of Pluto’s atmosphere at near-infrared wavelengths. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BJORNSTAD, D.M. (2007) More pleas for Pluto. *Sky and Tel.* **113**, no. 1, 12 (Letter to editor).
- BLANCO, C., DIMARTINO, M., AND FERRERI, W. (1989) Observations of Pluto–Charon mutual events. *Astron. Jour.* **98**, 331–334.
- BLANCO, C., DIMARTINO, M., AND FERRERI, W. (1989) Observations of Pluto–Charon mutual events. *Mem. della Società Astronomica Italiana* **60**, 191–194.
- BLANCO, C., DIMARTINO, M., AND FERRERI, W. (1991) Observations of Pluto–Charon mutual events. II *Astron. Jour.* **101**, 2262–2265.
- BLANCO, C., DIMARTINO, M., AND FERRERI, W. (1993) *B* and *V* photoelectric observations of Pluto–Charon mutual eclipses. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BLANCO, C., DIMARTINO, M., AND FERRERI, W. (1994) Observations of Pluto–Charon mutual events. III *Astron. Jour.* **108**, 1940–1942.
- BLAU, S.K. (2015) Pluto’s intriguing moons. *Physics Today* **68**, no. 8, 22.
- BLENCOE, D.A. (1931) The distances of the planets and of the satellites. *Pop. Astron.* **39**, 287–290.
- BLOW, G.L. AND PRIESTLEY, J. (1988) Occultation by Pluto. *IAU Circular No. 4611*, 1.
- BLUM, G. (1931) Sur une conjonction de Pluton et de Jupiter. *L’Astronomie* **45**, 218–219.
- BOBONE, J. (1932) Observaciones de cometas y de Pluto tomadas en el Observatorio Nacional Argentino *Astron. Jour.* **42**, 19.
- BOCKLÉE-MORVAN, D., LELLOUCH, E., BIVER, N., PAUBERT, G., BAUER, J., COLOM, P., AND LIS, D.C. (2001) Search for CO gas in Pluto, Centaurs, and Kuiper Belt Objects at radio wavelengths. *Astron. Astrophys.* **377**, 343–353.
- BOCSA, G. (2001) Observations of Pluto in Bucharest during 1932 and 1967–1975: precise positions and magnitudes. *Romanian Astron. Jour.* **11**, no. 1, 77–84.

- BOCSA, G. (2003) “Observations of Pluto in Bucharest during 1932 and 1967-1975: precise positions and magnitudes.” In *Journées 2002 — systèmes de référence spatio-temporels. Astrometry from ground and from space, Bucharest, 25 - 28 September 2002*. (Eds. N. Capitaine and M. Stavinschi, Bucharest, Romania.), 189–190.
- BODIFÉE, G. (1979) Pluton ha un satellite. *Coelum* **48**, 231–237.
- BODIFÉE, G. (1979) Pluton a un satellite. *L’Astronomie* **93**, 179–184.
- BODUCH, P., DOMARACKA, A., FULVIO, D., LANGLINAY, T., LV, X.Y., PALUMBO, M.E., ROTHARD, H., AND STRAZZULLA, G. (2012) Chemistry induced by energetic ions in water ice mixed with molecular nitrogen and oxygen. *Astron. Astrophys.* **544**, A30.
- BOHN, R.B., SANDFORD, S.A., ALLAMANDOLA, L.J., AND CRUIKSHANK, D.P. (1994) Infrared spectroscopy of Triton and Pluto ice analogs: the case for saturated hydrocarbons. *Icarus* **111**, 151–173.
- BOISSEL, Y., SICARDY, B., ROQUES, F., WIDEMANN, T., GAULME, P., AGEORGES, N., IVANOV, V., MARCO, O., MASON, E., MOUSIS, O., ROUSSELOT, P., ASSAFIN, M., BRAGA RIBAS, F., CAMARGO, J., DA SILVA NETO, D., ANDREI, A., VIEIRA MARTINS, R., ALBERT, L., VEILLET, C., AND BEHREND, R. (2008) Search for small satellites and rings orbiting Pluto through stellar occultations. *Bull. Amer. Astron. Soc.* **40**, 483 (Abstract).
- BOISSEL, Y., SICARDY, B., ROQUES, F., GAULME, P., DORESSOONDIRAM, A., WIDEMANN, T., IVANOV, V. D., MARCO, O., MASON, E., AGEORGES, N., MOUSIS, O., ROUSSELOT, P., DHILLON, V.S., LITTLEFAIR, S. P., MARSH, T. R., ASSAFIN, M., BRAGA RIBAS, F., DA SILVA NETO, D., CAMARGO, J. I. B., ANDREI, A., VIEIRA MARTINS, R., BEHREND, R., AND KRETLOW, M. (2014) An exploration of Pluto’s environment through stellar occultations. *Astron. Astrophys.* **561**, 144–154.
- BOND, B. (1994) 100 years on Mars Hill. *Astronomy* **22**, no. 6, 28–39.
- BOND, P. (1995) Will NASA take the express to Pluto? *Astron. Now* **9**, no. 5, 41–44.
- BOND, P. (2002) Mission update: sunspots and Mars frost. *Astron. Geophys.* **43**, no. 1, 16–19.
- BOND, P. (2006) *Pluto and Charon: ice worlds on the ragged edge of the solar system*. by S.A. Stern and J. Mitton (Book review.) *The Observatory* **126**, no. 1193, 290.
- BONESTALL, C. AND CLARKE, A.C. (1972) “Cosmic billiards. Ch. 2 In” In *Beyond Jupiter: the worlds of tomorrow* (Little, Brown, and Co., Boston), 8–17.
- BONFIGLIO, E.P., LONGUSKI, J.M., AND VINH, N.X. (2000) Automated design of aerogravity-assist trajectories. *Jour. Spacecraft and Rockets* **37**, no. 6, 768–775.
- BONNEAU, D. AND FOY, R. (1980) 1978 P1. *IAU Circular No. 3509*, 1.
- BONNEAU, D. AND FOY, R. (1980) Interférométrie au 3.60 m CFH. I. Résolution de système Pluto–Charon. *Astron. Astrophys.* **92**, L1–L4.
- BONNEAU, D. AND FOY, R. (1981) Charon update. *Sky and Tel.* **61**, 198.
- BOROWSKI, S.K. (1995) Robotic planetary missions enabled with small NTR engine/stage technologies. *AIP Conference Proceedings* **324**, 311–319.
- BORRELLY, A. (1916) Contribution à la recherche d’une planète transneptunienne. *L’Astronomie* **30**, 423–425.
- BORRELLY, A. (1917) Contribution à la recherche d’une planète transneptunienne. *Jour. des Observateurs* **1**, 126.
- BORRELLI, M.E. AND COLLINS, G.C. (2018) Volcanism in Vulcan Planum: topographic tests for the emplacement of smooth plains on Charon. *Lunar & Planetary Sci.* **49**, 2874 (Abstract).
- BORRELLI, M.E. AND COLLINS, G.C. (2018) “Testing the cryovolcanism hypothesis for Vulcan Planum, Charon.” Paper given at *Cryovolcanism in the Solar System Workshop*, 5–7 June 2018, Houston, TX, 2023.

- BORRELLI, M.E. AND COLLINS, G.C. (2021) Testing the cryovolcanism and plate bending hypotheses for Charon’s smooth plains. *Icarus* **356**, 113717.
- BOCŞA, G., POPESCU, P., AND LICULESCU, M. (2011) Accurate positions of Pluto and asteroids observed in Bucharest during the year 1932. *Romanian Astron. Jour.* **21**, 149.
- BORKOWSKI, C.A., SIEVERS, R.K., AND HENDRICKS, T.J. (1997) “PX series AMTEC cell design, testing, and analysis.” Paper given at *32nd Intersociety Energy Conversion Engineering Conference, 27 July–60 August 1997*, Honolulu, HI, Vol. 2, 1202–1209.
- BOSH, A.S., ELLIOT, J.L., KRUSE, S.E., BARON, R.L., DUNHAM, E.W., AND FRENCH, L.M. (1986) Signal-to-noise ratios for possible stellar occultations by Pluto. *Icarus* **66**, 556–560.
- BOSH, A.S., ELLIOT, J.L., DUNHAM, E.W., SLIVAN, S.M., AND YOUNG, L.A. (1988) Where is Pluto’s surface? *Bull. Amer. Astron. Soc.* **20**, 805 (Abstract).
- BOSH, A.S. AND ELLIOT, J.L. (1989) Combining results from occultation, thermal, and mutual event observations of Pluto. *Bull. Amer. Astron. Soc.* **21**, 981 (Abstract).
- BOSH, A.S., YOUNG, L.A., ELLIOT, J.E., HAMMEL, H.B., AND BARON, R.L. (1991) Photometric variability of Charon at $2.2\mu\text{m}$. *Bull. Amer. Astron. Soc.* **23**, 1217 (Abstract).
- BOSH, A.S., YOUNG, L.A., ELLIOT, J.E., HAMMEL, H.B., AND BARON, R.L. (1991) Photometric variability of Charon at $2.2\mu\text{m}$. *Icarus* **95**, 319–324.
- BOSH, A.S., PERSON, M.J., LEVINE, S.E., ZULUAGA, C.A., ZANGARI, A.M., RUPRECHT, J.D., BOWENS-RUBIN, R., BROTHERS, T.C., BERRY, K.L., BABCOCK, B.A., PASACHOFF, J.M., ROJO, P., SERVAJEAN, E., FÖRSTER, F., NARANJO, O.A., TAYLOR, B.W., DUNHAM, E.W., OSWALT, T., BATCHELDOR, D., MURISON, M., TILLEMANN, T., HARRIS, H.C., BRIGHT, L.P., SCHAEFER, G., SALLUM, S., MIDKIFF, A.H., MAILHOT, E.A., MILLER, C., MORRIS, D., WODASKI, R., BELL, D., BIRD, P., FEY, D., GEISERT, E., HASTINGS, D., MIZUSAWA, T., SOLENSKI, P., AND WATSON, B. (2013) The state of Pluto’s atmosphere in 2012–2013. *Bull. Amer. Astron. Soc.* **45**, 404.01 (Abstract).
- BOSH, A. (2013) Occultation by (134340) Pluto. *IAU Circular No. 3502*.
- BOSH, A.S., PERSON, M.J., ZULUAGA, C., LEVINE, S., SCHAEFER, G., HARRIS, H., TILLEMANN, T., MURISON, M., AND BRIGHT, L. (2013) Occultation by (134340) Pluto. *IAU Circular No. 3502*.
- BOSH, A.S., PERSON, M.J., LEVINE, S.E., ZULUAGA, C.A., ZANGARI, A.M., GULBIS, A.A.S., SCHAEFER, G.H., DUNHAM, E.W., BABCOCK, B.A., DAVIS, A.B., PASACHOFF, J.M., ROJO, P., SERVAJEAN, E., FÖRSTER, F., OSWALT, T., BATCHELDOR, D., BELL, D., BIRD, P., FEY, D., FULWIDER, T., GEISERT, E., HASTINGS, D., KEUHLER, C., MIZUSAWA, T., SOLENSKI, P., AND WATSON, B. (2015) The state of Pluto’s atmosphere in 2012–2013. *Icarus* **246**, 237–246.
- BOSH, A.S., PERSON, M.J., ZULUAGA, C.A., SICKAFOOSE, A.A., LEVINE, S.E., PASACHOFF, J.M., BABCOCK, B.A., DUNHAM, E.W., MCLEAN, I., WOLF, J., ABE, F., BECKLIN, E., BIDA, T.A., BRIGHT, L.P., BROTHERS, T., CHRISTIE, G., COLLINS, P.L., DURST, R.F., GILMORE, A.C., HAMILTON, R., HARRIS, H.C., JOHNSON, C., KILMARTIN, P.M., KOSIAREK, M.R., LEPPIK, K., LOGSDON, S.E., LUCAS, R., MATHERS, S., MORLEY, C.J.K., NELSON, P., NGAN, H., PFÜLLER, E., NATUSCH, T., RÖSER, H.-P., SALLUM, S., SAVAGE, M., SEEGER, C.H., SIU, H., STODCKDALE, C., SUZUKI, D., THANATHIBODEE, T., TILLEMANN, T., TRISTAM, P.J., VAN CLEVE, J., VARUGHESE, C., WEISENBACH, L.W., WIDEN, E., AND WIEDEMANN, M. (2015) Haze in Pluto’s atmosphere: results from SOFIA and ground-based observations of the 2015 June 29 Pluto occultation. *Bull. Amer. Astron. Soc.* **47**, 105.03 (Abstract).
- BOSH, A.S., DUNHAM, E.W., YOUNG, L.A., SLIVAN, S., BARBA, L.L., MILLIS, R.L., WASSERMAN, L.H., AND NYE, R. (2015) Revisiting the 1988 Pluto occultation. *Bull. Amer. Astron. Soc.* **47**, 210.31 (Abstract).
- BOSH, A.S., LEVINE, S., SICKAFOOSE, A.A., AND PERSON, M.J. (2016) Scattering and extinction: interpreting hazes in stellar occultation data. *Bull. Amer. Astron. Soc.* **48**, no. 7, 144 (Abstract).

- BOSH, A.S., DUNHAM, E.W., ZALUAGA, C., LEVINE, S., PERSON, M.J., AND VAN CLEVE, J.E. (2016) Stellar occultations from airborne platforms: 1988 to 2016. *Bull. Amer. Astron. Soc.* **48**, no. 7, 171–172 (Abstract).
- BOSS, A.P. (2011) A well-defined planet. *Science* **334**, 1057.
- BOSS, A.P., HUDGINS, D.M., AND TRAUB, W.A. (2011) New worlds, New Horizons and NASA’s approach to the next decade of exoplanet discoveries. *IAU Symposium on the astrophysics of planetary systems: formation, structure, and dynamical evolution* **276**, 324–334.
- BOSTON, P.J. (2016) Holey solar system! Cave and karst features on other planetary bodies and prospects for detection and characterization (Invited Presentation). *Geological Soc. Amer. Annual Meeting* **T115**, 190-8 (Abstract).
- BOSTRÖM, M., ESTESO, V., FIEDLER, J., BREVIK, I., BUHMANN, S.Y., PERSSON, C., CARRETERO-PALACIOS, S., PARSONS, D.F., AND CORKERY, R.W. (2021) Self-preserving ice layers on CO₂ clathrate particles: implications for Enceladus, Pluto, and similar ocean worlds. *Astron. Astrophys.* **650**, A54.
- BOTTKE, W.F., STERN, S.A., AND LEVISON, H.F. (2003) An exploration of Charon’s putative eccentricity around Pluto. *Lunar & Planetary Sci.* **34**, 2113 (Abstract).
- BOTTKE, W.F. (2007) Demotion commotion in outer space. Book Review: *Is Pluto a planet? A historical journey through the solar system*, by D.A. Weintraub, Princeton Univ. Press, Princeton. 254 pp. *Physics Today* **60**, no. 10, 55.
- BOTTKE, W., MARSHALL, R., HAROLD LEVISON, H., NESVORNY, D., D., MORBIDELLI, A., AND MARCHI, S. (2021) The Kuiper Belt is collisionally evolved, but the Trojans, not so much. *Bull. Amer. Astron. Soc.* **53**, 111.02 (Abstract).
- BOTTKE, W.F., VOKROUHLICKÝ, D., MARSHALL, R., NESVORNÝ, D., MORBIDELLI, A., DEIENNO, R., MARCHI, S., DONES, L., AND LEVISON, H.F. (2023) The collisional evolution of the primordial Kuiper Belt, its destabilized population, and the Trojan asteroids. *Planetary Sci. Jour.* **4**, no. 9, 168.
- BOUET, J. (1987) The rotation of planets endowed with satellites. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris), Ser. II-Mechanique, Physique, Chimie, Sciences de l’Universe, Sciences de la Terre* **305**, 185–187.
- BOURKE, R.D., FRIEDMAN, L.D., PENZO, P.A., AND STAVRO, W. (1971) “Design of Grand Tour missions.” Paper given at *9th Aerospace Sciences Meeting*, New York, NY.
- BOURQUE, K. (2006) Planetary turmoil. *Sky and Tel.* **112**, no. 6, 12, 13 (Letter to editor).
- BOUŠKA, J. (1978) New planetary satellites. *Říše hvězd* **59**, 201–204.
- BOUŠKA, J. (1980) The moon of Pluto. *Phys. Abstr.* **83**, #31252 (Abstract).
- BOUŠKA, J. (1980) The moon of Pluto. *Ceskoslovensky Cas. Fyz. Sekce A* **29**, 294–295.
- BOWELL, E. AND LUMME, K. (1980) A photometric estimate of Pluto’s albedo and diameter. Submitted to *Icarus*
- BOWELL, E., LEVISON, H.F., SHOEMAKER, E.M., AND WEISSMAN, P.R. (1993) The population of the trans-Neptunian region. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BOWEN, I.S. (1950) Guest investigators. *Annual Report of the Director of the Mount Wilson and Palomar Observatories* **49**, 20.
- BOWER, E.C. AND WHIPPLE, F. (1930) Trans-Neptunian planet. *Harvard College Observatory Announcement Card* **118**, April 7.
- BOWER, E.C. AND WHIPPLE, F. (1930) Preliminary elements and ephemeris of the Lowell Observatory Object. *Lick Obs. Bull. #421* **14**, 189–191.
- BOWER, E.C. AND WHIPPLE, F. (1930) Pluto. *Harvard College Observatory Announcement Card* **136**, June 20.
- BOWER, E.C. AND WHIPPLE, F. (1930) The orbit of Pluto. *Pub. Astron. Soc. Pacific* **42**, 236–240.

- BOWER, E.C. AND WHIPPLE, F. (1931) Elements and ephemeris of the Lowell Observatory object (Pluto)—Second paper. *Lick Obs. Bull.* #427 **15**, 35–42.
- BOWER, E.C. (1931) *On the orbit and mass of Pluto*. Ph. D. diss., Univ. California at Berkeley, Berkeley, CA.
- BOWER, E.C. (1931) On the orbit and mass of Pluto with an ephemeris for 1931–1932. *Lick Obs. Bull.* #437 **15**, 171–178.
- BOWER, E.C. (1931) On the orbit and mass of Pluto. *Pub. Astron. Soc. Pacific* **43**, 286–287.
- BOWER, E.C. (1932) Observations of Pluto, 1931–32 with the 36-inch Crossley reflector. *Lick Obs. Bull.* #444 **16**, 33.
- BOWER, E.C. (1932) Observations of Pluto 1931–32. *Pub. Astron. Soc. Pacific* **44**, 61–62.
- BOWER, E.C. (1932) Ephemeris for Pluto for 1932–33 — fourth paper. *Lick Obs. Bull.* #444 **16**, 31–33.
- BOWER, E.C., ANDERSON, C.M., AND WYSE, A.B. (1933) Pluto — Ephemeris for 1933–1934 — fifth paper. *Lick Obs. Bull.* #453 **16**, 115–118.
- BOWER, E.C. (1934) Pluto — Ephemeris for 1934/35 — sixth paper. *Lick Obs. Bull.* #465 **17**, 53–54.
- BOWLER, S. (2006) Whose planets are they anyway? *Astron. Geophys.* **47**, no. 5, 4.
- BOWMAN, A.F. (2004) “New Horizons mission to Pluto/Charon: reducing costs of a long duration mission.” Paper given at *55th International Astronautical Congress*, Vancouver, BC, IAC paper #04-A.8.01.
- BOWMAN, A.F. (2010) “Spacecraft hibernation: concept vs. reality, a Mission Operations Manager’s perspective.” Paper given at *SpaceOps 2010 Conference*, Huntsville, AL, AIAA paper #2010-2161.
- BOYER, L., GONNESSIAT, G., REISS, R., RENAUX, RX., AND FILIPPOFF, F. (1931) Positions de petites planètes et de Pluton obtenues à l’Equatorial photographique de l’Observatoire d’Alger. *Jour. des Observateurs* **14**, 73–81.
- BOYER, L. (1948) Positions de Pluton obtenues à l’Equatorial photographique de l’Observatoire d’Alger. *Jour. des Observateurs* **31**, 95.
- BOYER, L. (1951) Positions de Pluton obtenues à l’Equatorial photographique de l’Observatoire d’Alger. *Jour. des Observateurs* **34**, 67.
- BOYER, L. (1956) Positions de petites planètes, de Comètes et de Pluton obtenues à l’Equatorial photographique de l’Observatoire d’Alger. *Jour. des Observateurs* **39**, 27–31.
- BOYER, L. (1961) Positions de petites planètes, de Comètes et de Pluton obtenues à l’Equatorial photographique de l’Observatoire d’Alger. *Jour. des Observateurs* **44**, 88–94.
- BOYER, B. (1963) Positions de petites planètes, de la comète Candy et de Pluton obtenues à l’Equatorial photographique de l’Observatoire d’Alger. *Jour. des Observateurs* **46**, 21–26.
- BOYLE, A. (2009) *The case for Pluto: how a little planet made a big difference*. (Wiley, Hoboken, NJ), 272 pp.
- BRACHER, K. (1990) Sixty years ago: the discovery of Pluto. *Mercury* **19**, 51–52.
- BRACHER, K. (1991) The discovery of Pluto. *Mercury* **20**, 122–123.
- BRACHER, K. (1994) The founding of Lowell Observatory. *Mercury* **23**, 5.
- BRACHER, K. (2005) Planets and their moons: with eight or ten planets and 160 moons (and counting) the solar system seems crowded. *Mercury* **34**, no. 5, 7.
- BRACHER, K. (2011) 80 years ago: the mass of Pluto. *Mercury* **40**, no. 1, 6.
- BRADFORD, S. (2002) Heart politics meets hard politics. *Political Sci.* **54**, no. 1, 21–25.
- BRADY, J.L. (1972) The effect of a trans-Plutonian planet on Halley’s comet. *Jour. Astron. Soc. Victoria* **25**, 55–56.
- BRADY, J.L. (1972) The effect of a trans-Plutonian planet on Halley’s comet. *Pub. Astron. Soc. Pacific* **84**, 314–322.

- BRAHIC, A. (1979) Pluto and its satellite. *Phys. Abstr.* **82**, #70994 (Abstract).
- BRAHIC, A. (1979) Pluto and its satellite. *Recherche* **10**, 380–382.
- BRAHIC, A. (1983) “Pluto.” In *The great atlas of astronomy* (Paris), ???.
- BRAHIC, A., GRENIER, I., MCLAREN, R., AND GRUNDSETH, B., BHATTACHARYYA, J.C., VASUNDHARA, R., KUPPUSWAMY, K., AND THOLEN, D.J. (1986) Planetary occultations. *IAU Circular No. 4207*, 2.
- BRAHIC, A. (1994) Remote observations of solid surfaces of planets, satellites, rings and small bodies. *Adv. Spa. Res.* **6**, no. 6, 141.
- BRAND, H.E.A. AND MAYNARD-CASELY, H.E. (2018) Thermal expansion and phase changes in methane and nitrogen at Pluto temperatures. *Lunar & Planetary Sci.* **49**, 1839 (Abstract).
- BRANDT, P., STERN, A., BAGENAL, F., SPENCER, J., ELLIOTT, H., HILL, M., KOLLMANN, P., MCNUTT, R., MCCOMAS, D., GLADSTONE, R., HORANYI, M., POPPE, A., PROVORNIKOVA, E., LINSKY, J., REDFIELD, S., SINGER, K., AND WEAVER, H. (2022) The Cross-Divisional Pathfinder: New Horizons in the Second Extended Mission. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, D1.7-0005-22*, (Abstract).
- BRANHAM, JR., R.L. (1988) The simplex method for nonlinear mass determinations. *Cel. Mech.* **45**, 169–174.
- BRANHAM, JR., R.L. (1999) A covariance matrix for total least squares with heteroscedastic data. *Astron. Jour.* **117**, 1942–1948.
- BRAY, V. AND SCHENK, P.M. (2014) Modeling low velocity impacts: predicting crater depth on Pluto. *AGU Fall Meeting Abstracts P33B*, 4033 (Abstract).
- BRAY, V. AND SCHENK, P.M. (2015) Pristine impact crater morphology on Pluto — expectations for New Horizons. *Icarus* **246**, 156–164.
- BRAY, V.J., WHITE, O.L., SINGER, K.N., SCHENK, P.M., ROBBINS, S.J., MOORE, J.M., MCKINNON, W.B., DHINGRA, R.D., SPENCER, J.R., OLKIN, C.B., PARKER, J.W., STERN, S.A., VERBISCHER, A.J., WEAVER, H.A., AND NEW HORIZONS GGI TEAM. (2019) Crater morphology on 2014 MU69 — predictions for New Horizons high resolution imaging. *Lunar & Planetary Sci.* **50**, 2550 (Abstract).
- BREGER, M. AND COCHRAN, W.D. (1982) Polarimetry of Pluto. *Icarus* **49**, 120–124.
- BREGER, M. AND COCHRAN, W.D. (1982) Pluto. In “Observatory Reports,” Univ. Texas at Austin *Bull. Amer. Astron. Soc.* **14**, 502 (Abstract).
- BRESCIA, K. (2007) More pleas for Pluto. *Sky and Tel.* **113**, no. 1, 12 (Letter to editor).
- BRETAGNON, P. (1976) Long-period terms in the solar system. *Astron. Astrophys. (West Germany)* **30**, no. 1, 141–154.
- BRETAGNON, P. (1987) “Quasi resonant terms in secular variations planetary theories.” In *Proceedings of the European Regional Astronomy Meeting of the IAU, Vol. 3* (Prague, Czechoslovakia), 89–94.
- BRISSENDEN, G. AND NOEL-STORRS, J. (2007) Pluto reclassified: educational impacts and opportunities. *Spark, the AAS Education Newsletter* **4**, 8–10.
- BRITT, D. AND LISSE, C. (2012) Commentary: funding the final frontier. *Aerospace America* **50**, no. 9, 3.
- BROMLEY, B.C. AND KENYON, S.J. (2013) Satellite formation around Pluto–Charon. *Bull. Amer. Astron. Soc.* **45**, 303.05.
- BROMLEY, B.C. AND KENYON, S.J. (2015) Evolution of a ring around the Pluto–Charon binary. *Astrophys. Jour.* **809**, 88.
- BROMLEY, B.C. AND KENYON, S.J. (2020) A Pluto–Charon concerto: an impact on Charon as the origin of the small satellites. *Astron. Jour.* **160**, no. 2, 85.
- BROMLEY, B.C. AND KENYON, S.J. (2020) On the estimation of circumbinary orbital properties. *Astron. Jour.* **161**, no. 1, 25.

- BRONSHTEHN, V.A. (1979) *The planets and their observation, Second revised and enlarged edition* (Izdatel'stvo Nauka, Moscow), 240 pp.
- BRONSHTEHN, V.A. (1980) The system of Pluto. *Zemlya Vselannaya* **1980**, no. 2, 30–31.
- BRONSHTEHN, V.A. (1984) Pluto—distant and puzzling. *Zemlya Vseleennaya* **4**, 20–25.
- BRONSHTEHN, V.A. (1990) Pluto and Triton: the riddles are remaining. *Zemlya Vseleennaya* **5**, 38–45.
- BROPHY, T. AND NOCA, M. (1998) Electric Propulsion for solar system exploration. *Jour. Propulsion and Power* **14**, no. 5, 700–707.
- BROSCH, P. (1967) Eine schätzung der masse und dichte von Pluto. *Icarus* **7**, 132–133.
- BROSCH, P. (1968) Dei mass des Pluto. *Sterne und Weltram* **7**, 48.
- BROSCH, N. AND MENDELSON, H. (1985) Occultation by Pluto on 1985 August 19. *IAU Circular No. 4097*, 2.
- BROSCH, N. AND MENDELSON, H. (1985) Occultation by Pluto on 1985 August 19. *IAU Circular No. 4117*, 3.
- BROSCH, N. (1995) The 1985 stellar occultation by Pluto. *Mon. Not. Roy. Astron. Soc.* **276**, 571–578.
- BROUGHTON, S.H. (2008) *The Pluto debate: influence of emotions on belief, attitude, and knowledge change*. Ph. D. dissertation, Univ. of Nevada Las Vegas, Las Vegas, NV.
- BROUWER, D. (1930) (Scientific books. *Astronomy*. by R.H. Baker (Book review) *Science* **72**, no. 1860, 197–198.
- BROUWER, D. (1938) Remarks on the theories of Uranus and Neptune. *Pub. Amer. Astron. Soc.* **9**, 217–218.
- BROUWER, D. (1945) Systematic error in the Berliner Jahrbuch Ephemeris of Pluto. *Astron. Jour.* **51**, 120.
- BROUWER, D. (1946) Comparison of Newcomb's tables of Neptune with an orbit obtained by numerical integration, and discussion of the perturbations by Pluto. *Pub. Amer. Astron. Soc.* **10**, 7–8.
- BROUWER, D. (1950) Current problems of Pluto. *Sky and Tel.* **9**, 103–105.
- BROUWER, D. (1955) The motions of the outer planets. *Mon. Not. Roy. Astron. Soc.* **115**, 221–235.
- BROUWER, D. (1955) Meeting of the Royal Astronomical Society. Wednesday, 1955 April 6 at 16^h30^m. *The Observatory* **75**, 96–101.
- BROUWER, D. (1966) “The orbit of Pluto over a long period of time.” In *Theory of Orbits in the Solar System and Stellar Systems*, ed. G. Contopoulos (New York, Academic Press IAU Symposium **25**, Thessalonica, Greece), pp. 227–229.
- BROWN, E.W. (1930) On the predictions of transneptunian planets from the perturbations of Uranus. *Proc. Nat. Acad. Sci.* **16**, 364–371.
- BROWN, E.W. (1931) On a criterion for the prediction of an unknown planet. *Mon. Not. Roy. Astron. Soc.* **92**, 80–101.
- BROWN, E.W. (1931) Observation and gravitational theory in the solar system. *Pub. Astron. Soc. Pacific* **44**, 21–40.
- BROWN, M.E, KULKARNI, S.R., AND LIGGETT, T.J. (1997) An analysis of the statistics of the Hubble Space Telescope Kuiper Belt Object search. *Astrophys. Jour.Lett.* **490**, L119–L122.
- BROWN, M.E. (1998) Infrared spectroscopy of Centaurs and irregular satellites. *Bull. Amer. Astron. Soc.* **30**, 1112 (Abstract).
- BROWN, M.E, BANNISTER, M.T., SCHMIDT, B.P., DRAKE, A.J., DJORGOVSKI, S.G., GRAHAM, M.J., MAHABAL, A., DONALEK, C., LARSON, S., CHRISTENSEN, E., BESHORE, E., AND MCNAUGHT, R. (2015) A serendipitous all sky survey for bright objects in the outer solar system. *Astron. Jour.* **149**, 69–75.

- BROWN, M.E. AND CALVIN, W.M. (1999) Spatially resolved spectroscopy of Pluto and Charon from the Keck telescope. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- BROWN, M.E. AND CALVIN, W.M. (2000) Evidence for crystalline water and ammonia ices on Pluto's satellite Charon. *Science* **287**, 107–109.
- BROWN, M.E. (2002) Pluto and Charon: formation, seasons, composition. *Ann. Rev. Earth & Planet. Sci.* **30**, 307–345.
- BROWN, M.E. (2004) The Kuiper belt. *Physics Today* **57**, no. 4, 49–54.
- BROWN, M.E., VAN DAM, M.A., BOUCHEZ, A.H., LE MIGNANT, D., CAMPBELL, R.D., CHIN, J.C.Y., CONRAD, A., HARTMAN, S.K., JOHANSSON, E.M., LAFON, R.E., RABINOWITZ, D.L., STOMSKI, JR., P.J., SUMMERS, D.M., TRUJILLO, C.A., AND WIZINOWICH, P.L. (2006) Satellites of the largest Kuiper Belt Objects. *Astrophys. Jour.Lett.* **639**, L43–L46.
- BROWN, M.E. (2006) The dwarf planets of the outer solar system. *Bull. Amer. Astron. Soc.* **38**, 1236 (Abstract).
- BROWN, M.E. (2009) Book Review: A dwarf among planets. *The Pluto files: the rise and fall of America's favorite planet*, by N. deGrasse Tyson, W.W. Norton, New York. 194 pp. *Physics Today* **62**, 51.
- BROWN, M. (2009) Book Review: A dwarf among planets. *The hunt for Planet X: new worlds and the fate of Pluto*, by G. Schilling, Copernicus/Springer, New York. 303 pp. *Physics Today* **62**, 51.
- BROWN, M.E. (2012) The compositions of Kuiper Belt Objects. *Ann. Rev. Earth & Planet. Sci.* **40**, 467–494.
- BROWN, M.E. (2019) The Planet Nine hypothesis: The putative planet accounts for similarities in the orbits of a collection of objects in the distant Kuiper belt. *Physics Today* **72**, no. 370–71.
- BROWN, M.E. AND FRASER, W.C. (2023) The state of CO and CO₂ ices in the Kuiper Belt as seen by JWST. *Planetary Sci. Jour.* **4**, no. 7, 130.
- BROWN, M.E. AND BUTLER, B.J. (2023) Masses and densities of dwarf planet satellites measured with ALMA. *Planetary Sci. Jour.* **4**, no. 10, 193.
- BROWN, R.H. (1982) Diameters and albedos of satellites of Uranus. *Nature* **300**, 423–427.
- BROWN, R.H. AND CRUIKSHANK, D.P. (1985) The moons of Uranus, Neptune, and Pluto. *Sci. Amer.* **253**, no. 1, 38–47.
- BROWN, R.H. (1990) Volatile ices in the outer solar system: an observational perspective. *Eos* **71**, 548 (Abstract).
- BROWN, R.H., ANICICH, V.G., AND TRYKA, K.A. (1994) Heavy isotopes of carbon and nitrogen on Triton and Pluto. *Bull. Amer. Astron. Soc.* **26**, 1170 (Abstract).
- BROWN, R.H. AND CRUIKSHANK, D.P. (1997) Determination of the composition and state of icy surfaces in the outer solar system. *Ann. Rev. Earth and Planetary Sciences* **25**, 243–277.
- BROWN, R.H., CRUIKSHANK, D.P., PENDLETON, Y., AND VEEDER, G.J. (1997) Surface composition of the Kuiper Belt object 1993SC. *Science* **276**, 937–939.
- BROWN, R.H. AND CALVIN, W.M. (2000) Evidence for crystalline water and ammonia ices on Pluto's satellite Charon. *Science* **287**, 107–109.
- BROZOVIĆ, M. (2010) The orbits of the satellites of Pluto. *Bull. Amer. Astron. Soc.* **42**, no. 3, 935–936 (Abstract).
- BROZOVIĆ, M. (2010) The orbits and masses of satellites of Pluto. *Icarus* **246**, 317–329.
- BROZOVIĆ, M. AND JACOBSON, R.A. (2013) The orbits and masses of Pluto's satellites. *Bull. Amer. Astron. Soc.* **44**, 201.02 (Abstract).
- BRUMFIEL, G. (2004) Security scare puts Pluto launch at risk. *Nature* **430**, 713.
- BRUNIER, S. (1992) Clyde Tombaugh: the man of Pluto. *Ciel et Espace* **266**, 32–37.

- BRUNIER, S. (1992) The planet of darkness. *Ciel et Espace* **266**, 38–39.
- BRUNETTO, R., CANIGLIA, G., BARATTA, G.A., AND PALUMBO, M.E. (2008) Integrated near-infrared band strengths of solid CH₄ and its mixtures with N₂. *Astrophys. Jour.* **686**, 1480–1485.
- BRUNINI, A. AND FERNÁNDEZ, J.A. (1998) On the existence of a primordial cometary belt between Uranus and Neptune. *Icarus* **135**, 408–414.
- BRUNINI, A. AND FERNÁNDEZ, J.A. (1999) Numerical simulations of the accretion of Uranus and Neptune. *Planetary and Spa. Sci.* **47**, 591–605.
- BRUNINI, A. AND ZANARDI, M. (2016) Dynamical and collisional evolution of Kuiper Belt binaries. *Mon. Not. Roy. Astron. Soc.* **455**, no. 4, 4487–4497.
- BRZOSTKIEWICZ, S.R. AND GÓRNICZA, D. (1991) The story of Pluto is continued. *Urania Kraków* **62**, 328–334.
- BRZOSTKIEWICZ, S.R. (1994) Pluto and Charon—the questions continue. *Urania Kraków* **65**, 98–105.
- BRZOSTKIEWICZ, S.R. (1995) Memoirs on the discoverer of Pluto. *Urania Kraków* **66**, 77–80.
- BUCCINO, D., OUDRHIRI, K., AND KAHAN, D. (2019) Advanced radio science instrumentation: architectures, applications & recent use. *Proceedings of the EGU General Assembly, EGU 2019* **21**, 6102.
- BUCHWALD, G., DIMARIO, M., AND WILD, W. (2000) Pluto is discovered back in time. *Amateur — Professional Partnerships in Astronomy, ASP Conference Proceedings* **220**, 355–356.
- BUHLER, P.B. AND INGERSOLL, A.P. (2017) Sublimation pit distribution indicates convection cell surface velocity of 10 centimeters per year in Sputnik Planitia, Pluto. *Lunar & Planetary Sci.* **48**, 1746 (Abstract).
- BUHLER, P.B. AND INGERSOLL, A.P. (2017) Sputnik Planitia, Pluto convection cell surface velocities of ~10 centimeters per year based on sublimation pit distribution. *Bull. Amer. Astron. Soc.* **49**, 102.04 (Abstract).
- BUHLER, P.B. AND INGERSOLL, A.P. (2018) Sublimation pit distribution indicates convection cell surface velocities of ~10 cm per year in Sputnik Planitia, Pluto. *Icarus* **300**, 327–340.
- BUIE, M.W. AND FINK, U. (1984) Methane frost on Pluto: model implications from spectrophotometry. *Bull. Amer. Astron. Soc.* **16**, 651 (Abstract).
- BUIE, M.W. (1984) *CCD Spectrophotometry of Pluto*. Ph. D. dissertation, Univ. of Arizona, Tucson, AZ.
- BUIE, M.W. AND FINK, U. (1985) The phase and areal distribution of methane on Pluto. *Bull. Amer. Astron. Soc.* **17**, 714–715 (Abstract).
- BUIE, M.W. AND THOLEN, D.J. (1986) The surface albedo distribution of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **18**, 821 (Abstract).
- BUIE, M.W. AND THOLEN, D.J. (1987) Geometry of the Pluto–Charon mutual events. *Bull. Amer. Astron. Soc.* **19**, 844 (Abstract).
- BUIE, M.W. AND FINK, U. (1987) Methane absorption variations in the spectrum of Pluto. *Icarus* **70**, 483–498.
- BUIE, M.W., CRUIKSHANK, D.P., LEBOFKY, L.A., AND TEDESCO, E.F. (1987) Water frost on Charon. *Nature* **329**, 522–523.
- BUIE, M.W. AND POLK, K.S. (1988) Polarization of the Pluto–Charon system during a satellite eclipse. *Bull. Amer. Astron. Soc.* **20**, 806 (Abstract).
- BUIE, M.W. AND THOLEN, D.J. (1989) The surface albedo distribution of Pluto. *Icarus* **79**, 23–37.
- BUIE, M.W., LEBOFKY, L.A., TEDESCO, E.F., AND CRUIKSHANK, D.P. (1989) Methane map of Pluto from mutual event observations. *Bull. Amer. Astron. Soc.* **21**, 985–986 (Abstract).
- BUIE, M.W., HORNE, K., AND THOLEN, D.J. (1990) Albedo map of Pluto and Charon from mutual event observations. *Bull. Amer. Astron. Soc.* **22**, 1129 (Abstract).

- BUIE, M.W., THOLEN, D.J., AND HORNE, K. (1992) Albedo maps of Pluto and Charon: initial mutual events results. *Icarus* **97**, 211–227.
- BUIE, M.W. AND BINZEL, R.P. (1993) Surface appearance of Pluto and Charon. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BUIE, M.W. AND SHRIVER, S.K. (1993) Separate infrared lightcurves of Pluto and Charon. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BUIE, M.W. (1993) Individual polarization properties of Pluto and Charon. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BUIE, M.W., MILLIS, R.L., WASSERMAN, L.W., ELLIOT, J.L., BUS, S.J., DUNHAM, E.W., YOUNG, E.F., HUBBARD, W.B., AND WELLS, W.K. (1993) CCD Camera occultation system. *Bull. Amer. Astron. Soc.* **25**, 1115 (Abstract).
- BUIE, M.W. AND SHRIVER, S.K. (1994) The distribution of water frost on Charon. *Icarus* **108**, 225–233.
- BUIE, M.W., THOLEN, D.J., AND WASSERMAN, L.H. (1994) Separate lightcurves of Pluto and Charon. *Eos* **75**, 216 (Abstract).
- BUIE, M.W., WASSERMAN, L.H., AND THOLEN, D.J. (1994) The separate lightcurves of Pluto and Charon from Hubble Space Telescope imaging. *Bull. Amer. Astron. Soc.* **26**, 1169 (Abstract).
- BUIE, M.W. (1995) IR spectral monitoring of Pluto. *Bull. Amer. Astron. Soc.* **27**, 1100 (Abstract).
- BUIE, M.W. AND STERN, S.A. (1996) The surface of Pluto as revealed by the Hubble Space Telescope. *Bull. Amer. Astron. Soc.* **28**, 1079–1080 (Abstract).
- BUIE, M.W., THOLEN, D.J., AND WASSERMAN, L.H. (1997) Separate lightcurves of Pluto and Charon. *Icarus* **125**, 233–244.
- BUIE, M.W. AND GRUNDY, W.M. (1998) Seasonal monitoring of Pluto: 1998 status report. *Bull. Amer. Astron. Soc.* **30**, 1108 (Abstract).
- BUIE, M.W., GRUNDY, W., AND KERN, S. (1999) Spectra of Pluto and Charon from HST/NICMOS. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- BUIE, M.W., GRUNDY, W.M., AND KERN, S.D. (1999) Separate spectra of Pluto and Charon from HST/NICMOS. *Bull. Amer. Astron. Soc.* **31**, 1109 (Abstract).
- BUIE, M.W. AND GRUNDY, W.M. (2000) Continued evolution of the lightcurve of Pluto. *Bull. Amer. Astron. Soc.* **32**, 1083 (Abstract).
- BUIE, M.W. AND GRUNDY, W. (2000) The distribution and physical state of H₂O on Charon. *Icarus* **128**, 324–339.
- BUIE, M.W. (2001) Automation of the Lowell Observatory 0.8-m telescope. *Bull. Amer. Astron. Soc.* **33**, 1143–1144 (Abstract).
- BUIE, M.W., ELLIOT, J.L., KIDGER, M.R., BOSH, A.S., SAÁ, O., VAN MALDEREN, R., UYTTERHOEVEN, K., DAVIGNON, G., DUNHAM, E.W., OLKIN, C.B., TAYLOR, B.W., WASSERMAN, L.H., CLANCY, K., PERSON, M.J., LEVINE, S.E., STONE, R.C., PERÉ Z GONZÁ LEZ, P.G., PASACHOFF, J.M., SOUZA, S.P., TICEHURST, D.R., AND FITZSIMMONS, A. (2002) Changes in Pluto’s atmosphere revealed by the P126A occultation. *Bull. Amer. Astron. Soc.* **34**, no. 3, 877 (Abstract).
- BUIE, M.W. (2002) Seasonal atmospheric and surface changes on Pluto. *Bull. Amer. Astron. Soc.* **34**, 1212 (Abstract).
- BUIE, M.W., GRUNDY, W., YOUNG, E.F., YOUNG, L.A., AND STERN, S.A. (2004) Mapping the surface of Pluto with the Hubble Space Telescope. *Lunar & Planetary Sci.* **35**, 2087 (Abstract).
- BUIE, M.W., GRUNDY, W., YOUNG, E.F., YOUNG, L.A., AND STERN, S.A. (2005) Mapping the surface of Pluto with the *Hubble Space Telescope*. *Bull. Amer. Astron. Soc.* **37**, 732 (Abstract).

- BUIE, M.W., GRUNDY, W.M., YOUNG, E.F., YOUNG, L.A., AND STERN, S.A. (2006) Orbits and photometry of Pluto's satellites: Charon, S/2005 P1, and S/2005 P2. *Astron. Jour.* **132**, 290–298.
- BUIE, M.W., GRUNDY, W.M., AND THOLEN, D.J. (2006) Orbits of Pluto's satellites. *Bull. Amer. Astron. Soc.* **38**, 523 (Abstract).
- BUIE, M.W., GRUNDY, W.M., AND THOLEN, D.J. (2007) Physical observations of Pluto's satellites. *Bull. Amer. Astron. Soc.* **39**, 542 (Abstract).
- BUIE, M.W., YOUNG, L.A., YOUNG, E.F., OLKIN, C.B., TERRELL, D., PARKER, J.W., DURDA, D., STANSBERRY, J.A., REITSEMA, H., FRENCH, R.G., SHOEMAKER, K., BROWN, M.E., SCHALLER, E.L., BAUER, J.M., YOUNG, J.W., WASSERMAN, L.H., PASACHOFF, J.M., LUST, N., FERNANDEZ, Y.R., DELLINGER, J.A., GAROSSINO, P.G.A., GRIGSBY, B., STONE, R.P.S., DILLON, W.G., MEZZALIRA, F., RYAN, E.V., RYAN, W., SOUZA, S.P., WILLIAMS, R., AND SEXTON, C. (2009) Pluto Stellar Occultation on 2008 Aug 25. *Bull. Amer. Astron. Soc.* **40**, 562 (Abstract).
- BUIE, M.W., GRUNDY, W.M., THOLEN, D.J., AND STEVENS, D.C. (2010) Photometric properties of the Pluto system. *Bull. Amer. Astron. Soc.* **42**, 983 (Abstract).
- BUIE, M.W., GRUNDY, W.M., YOUNG, E.F., YOUNG, L.A., AND STERN, S.A. (2010) Pluto and Charon with the Hubble Space Telescope. I. resolving changes on Pluto's surface and a map for Charon. *Astron. Jour.* **139**, no. 3, 1117–1127.
- BUIE, M.W., GRUNDY, W.M., YOUNG, E.F., YOUNG, L.A., AND STERN, S.A. (2010) Pluto and Charon with the Hubble Space Telescope. II. monitoring global change and improved surface properties from light curves. *Astron. Jour.* **139**, no. 3, 1128–1143.
- BUIE, M.W., THOLEN, D.J., WASSERMAN, L.H., SICARDY, B., YOUNG, L.A., YOUNG, E.F., RYAN, W., RYAN, E., WALSH, K., WIDEMANN, T., VACHIER, F., BEISKER, W., HALL, T., DIRE, J., ERICKSON, C.K., NANCE, C., AND PERSON, M. (2011) Hydra stellar occultation of 2011 June 27. *EPSC Abstracts* **6**, 1715 (Abstract).
- BUIE, M.W., WEAVER, H.A., SHOWALTER, M.A., STERN, S.A., STEFFL, A.J., MUTCHLER, M.J., MERLINE, W.J., SOUMMER, R., AND THROOP, H.B. (2012) Searching for satellites in the Pluto system interior to Charon's orbit. *Bull. Amer. Astron. Soc.* **44**, 304.08 (Abstract).
- BUIE, M.W., THOLEN, D.J., AND GRUNDY, W.M. (2012) The orbit of Charon is circular. *Astron. Jour.* **144**, 15–33.
- BUIE, M.W., PARKER, A.H., OSIP, D.J., SHEPPARD, S.S., HOLMAN, M.J., AND BORNCAMP, D.M. (2012) Minor Planet Observations [269 New Horizons KBO Search-Magellan/Baade]. *Minor Planet Circular* 81620.
- BUIE, M.W., THOLEN, D.J., TRILLING, D., SPENCER, J., THOLEN, D., AND BORNCAMP, D.M. (2012) Minor Planet Observations [266 New Horizons KBO Search-Subaru]. *Minor Planet Circular* 81620.
- BUIE, M.W., PARKER, A.H., OSIP, D.J., SHEPPARD, S.S., AND BORNCAMP, D. (2012) Minor Planet Observations [269 New Horizons KBO Search-Magellan/Baade]. *Minor Planet Circular* 81146.
- BUIE, M.W., PARKER, A.H., THOLEN, D.J., TRILLING, D., SPENCER, J., THOLEN, D., AND BORNCAMP, D.M. (2012) Minor Planet Observations [266 New Horizons KBO Search-Subaru]. *Minor Planet Circular* 80459.
- BUIE, M.W., PARKER, A.H., KAVELAARS, J., AND GWYN, S.D.J. (2012) Minor Planet Observations [267 New Horizons KBO Search-CFHT]. *Minor Planet Circular* 80459.
- BUIE, M.W., PARKER, A.H., OSIP, D.J., SHEPPARD, S.S., HOLMAN, M.J., AND BORNCAMP, D. (2012) Minor Planet Observations [268 New Horizons KBO Search-Magellan/Baade]. *Minor Planet Circular* 80460.
- BUIE, M.W., PARKER, A.H., OSIP, D.J., KAVELAARS, J., FUENTES, C.I., SCHECHTER, P.L., MCLEOD, B.A., CONROY, M., AND BORNCAMP, D.M. (2012) Minor Planet Observations [268 New Horizons KBO Search-Magellan/Clay]. *Minor Planet Circular* 81146.

- BUIE, M.W., GRUNDY, W.M., AND THOLEN, D.J. (2012) Orbit determination in the Pluto system. *Bull. Amer. Astron. Soc.* **43**, 8.08 (Abstract).
- BUIE, M.W., THOLEN, D.J., AND GRUNDY, W.M. (2012) Two-body orbits for the satellites of Pluto. *Asteroids, Comets, and Meteorites 2012*, 6249 (Abstract).
- BUIE, M.W., THOLEN, D.J., AND BORNCAMP, D. (2012) Minor Planet Observations [266 New Horizons KBO Search-Subaru]. *Minor Planet Circular 81146*.
- BUIE, M.W., SPENCER, J.R., PARKER, A.H., STERN, S.A., HOLMAN, M.J., THOLEN, D.J., BORNCAMP, D., TRILLING, D.E., OSIP, D.J., GAY, P.L., FUENTES, C., KAVELAARS, J.J., PETIT, J.-M., FABBRO, S., BENECCHI, S.D., SHEPPARD, S.S., DEMEO, F., BINZEL, R.P., WASSERMAN, L.H., STEFFL, A.J., FUSE, T., KAROJI, H., KINOSHITA, D., YANAGISAWA, T., MIYAZAKI, S., FURUSAWA, H., YOSHIDA, F., YAMASHIDA, T., AND TAJITSU, A. (2012) Searching for KBO flyby targets for the New Horizons mission. *Asteroids, Comets, and Meteorites 2012*, 6430 (Abstract).
- BUIE, M.W., GRUNDY, W.M., AND THOLEN, D.J. (2013) Astrometry and orbits of Nix, Kerberos, and Hydra. *Astron. Jour.* **146**, 152–163.
- BUIE, M.W. AND FOLKNER, W.M. (2015) Astrometry of Pluto from 1930–1951 Observations: the Lampland Plate Collection. *Astron. Jour.* **149**, 22.
- BUIE, M., PORTER, S., SHOWALTER, M., SPENCER, J., STERN, S.A., WEAVER, H., YOUNG, L., ENNICO, K., AND OLKIN, C.B. (2015) The orbits and masses of Pluto’s satellites after New Horizons. *Bull. Amer. Astron. Soc.* **47**, 102.08 (Abstract).
- BUIE, M.W., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., MOORE, J.M., AND GRUNDY, W.M. (2015) New Horizons data in the context of prior observations. *Bull. Amer. Astron. Soc.* **47**, 200.03 (Abstract).
- BUIE, M.W., STERN, S.A., YOUNG, L.A., OLKIN, C.B., WEAVER, H.A., ENNICO, K., GRUNDY, W.M., MOORE, J.M., BEYER, R.A., SCHENK, P., AND NEW HORIZONS SCIENCE TEAM. (2016) Photometric properties of Pluto. *Lunar & Planetary Sci.* **47**, 2927 (Abstract).
- BUIE, M.W., SPENCER, J.R., STERN, S.A., KAVELAARS, J.J., GWYN, S., PORTER, S.B., PARKER, A.H., BENECCHI, S.D., ZANGARI, A.M., VERBISER, A., THOLEN, D.T., FOLKNER, W.M., WEAVER, H.A., WASSERMAN, L.H., AND TANGA, P. (New Horizons: preparing for an encounter with a classical Kuiper Belt Object.) *Asteroids, Comets, and Meteorites 2017*, 129 (Abstract).
- BUIE, M.W., PORTER, S.B., TERRELL, D., TAMBLYN, P., VERBISER, A.M., SOTO, A., WASSERMAN, L.H., ZANGARI, A.M., SKRUTSKIE, M.F., PARKER, A., YOUNG, E.F., BENECCHI, S., STERN, S.A., AND THE NEW HORIZONS MU₆₉ OCCULTATION TEAM. (2017) Overview of the strategies and results of the 2017 occultation campaigns involving (486958) 2014 MU₆₉. *Bull. Amer. Astron. Soc.* **49**, 504.01 (Abstract).
- BUIE, M.W., PORTER, S.B., VERBISER, A., LEIVA, R., KEENEY, B.A., TSANG, C., BARATOUX, D., SKRUTSKIE, M., COLAS, F., DESMARS, J., AND STERN, S.A. (2018) Pre-encounter update on (486958) 2014MU₆₉ and occultation results from 2017 and 2018. *Bull. Amer. Astron. Soc.* **50**, 509.06 (Abstract).
- BUIE, M.W., PORTER, S.B., TAMBLYN, P., TERRELL, D., VERBISER, A.J., KEENEY, B., ZANGARI, A.M., WASSERMAN, L.H., OCAMPO, A., STERN, S.A., AND NEW HORIZONS OCCULTATION TEAM. (2019) Stellar occultation results for (486958) 2014MU₆₉: a pathfinding effort for the New Horizons flyby. *Lunar & Planetary Sci.* **50**, 3120 (Abstract).
- BUIE, M.W., PORTER, S.B., SPENCER, J.R., STERN, A., NEW HORIZONS OCCULTATION TEAM, AND NEW HORIZONS SCIENCE TEAM. (2020) Earth-based observations of 2014 MU₆₉. *Bull. Amer. Astron. Soc.* **52**, no. 1, 419.02 (Abstract).

- BUIE, M.W., PORTER, S.B., TAMBLYN, P., TERRELL, D., PARKER, A.H., BARATOUX, D., KAIRE, M., LEIVA, R., VERBISCHER, A.J., ZANGARI, A.M., COLAS, F., DIOP, B.D., SAMANIEGO, J.I., WASSERMAN, L.H., BENECCHI, S.D., CASPI, A., GWYN, S., KAVELAARS, J.J., OCAMPO URÍA, A.C., RABASSA, J. SKRUTSKIE, M.F., SOTO, A., TANGA, P., YOUNG, E.F., STERN, S.A., ANDERSEN, B.C., ARANGO PÉREZ, M.E., ARREDONDO, A., ARTOLA, R.A., BÂ, A., BALLE, R., BLANK, T., BOP, C.T., BOSH, A.S., CAMINO LÓPEZ, M.A., CARTER, C.M., CASTRO-CHACÓN, J.H., CAYCEDO DESPREZ, A., CAYCEDO GUERRA, N., CONARD, S.J., DAUVERGNE, J., DEAN, B., DEAN, M., DESMARS, J., DIENG, A.L., BOUSSO D., MAME D., DIOUF, O., DOREGO, G.S., DUNHAM, D.W., DUNHAM, J. DURANTINI LUCA, H.A., EDWARDS, P., ERASMUS, N., FAYE, G., FAYE, M., FERRARIO, L.E., FERRELL, C.L., FINLEY, T.J., FRASER, W.C., FRIEDLI, A.J., GALVEZ SERNA, J., GARCIA-MIGANI, E.A., GENADE, A., GETROST, K., GIL-HUTTON, R.A., GIMENO, G.N., GOLUB, E.J., GONZÁLEZ MURILLO, G.F., GRUSIN, M.D., GUROVICH, S., HANNA, W.H., HENN, S.M., HINTON, P.C., HUGHES, P.J., JOSEPHS, JR., J.D., JOYA, R., KAMMER, J.A., KEENEY, B.A., KELLER, J.M., KRAMER, E.A., LEVINE, S.E., LISSE, C.M., LOVELL, A.J., MACKIE, J.A., MAKARCHUK, S., MANZANO, L.E., MBAYE, S.S., MBAYE, M., MELIA, R.R., MORENO, F., MOSS, S.K., NDAIYE, D., NDAIYE, M., NELSON, M.J., OLKIN, C.B., OLSEN, A.M., OSPINA MORENO, V.J., PASACHOFF, J.M., PEREYRA, M.B., PERSON, M.J., PINZÓN, G., PULVER, E.A., QUINTERO, E.A., REGISTER, J.R., RESNICK, A.C., REYES-RUIZ, M., ROLFSMEIER, A.D., RUHLAND, T.R., SALMON, J., SANTOS-SANZ, P. SANTUCHO, M.A., SEPÚLVEDA NIÑO, D.K., SICKAFOOSE, A.A., SILVA, J.S., SINGER, K.N., SKIPPER, J.N., SLIVAN, S.M., SMITH, R.J.C., SPAGNOTTO, J.C., STEPHENS, A.W., STRABALA, S.D., TAMAYO, F.J., THROOP, H.B., TORRES CAÑAS, A.D., TOURE, L., TRAORE, A., TSANG, C.C.C., TURNER, J.D., VANEGAS, S., VENABLE, R., WILSON, J.C., ZULUAGA, C.A., AND ZULUAGA, J.I. (2020) Size and shape constraints of (486958) Arrokoth from stellar occultations. *Astron. Jour.* **159**, no. 4, 130.
- BUMGARNER, J.O. (1971) Predicted occultation by Pluto. *IAU Circular No. 2320*.
- BURATTI, B.J. (1989) "CCD photometry of Pluto–Charon mutual events." Paper given at *Pluto at Perihelion*, JPL, Sept. 25.
- BURATTI, B.J., DUNBAR, R.S., TEDESCO, E.F., GIBSON, J., MARCIALIS, R., WONG, F., AND DOBROVOLSKIS, A. (1995) Pluto–Charon mutual eclipse events: CCD observations and modeling. *Bull. Amer. Astron. Soc.* **24**, 962 (Abstract).
- BURATTI, B.J., MARCIALIS, R., DOBROVOLSKIS, A., DUNBAR, R.S., TEDESCO, E., GIBSON, J., MOSHER, J., AND WONG, F. (1993) Pluto–Charon mutual eclipses: CCD observations from Palomar Mountain. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- BURATTI, B.J., DUNBAR, R.S., TEDESCO, E.F., GIBSON, J., MARCIALIS, R.L., WONG, F., AND BENNETT, S. (1992) Modeling Pluto–Charon mutual eclipse events II. CCD observations with the 60-inch telescope at Palomar Mountain *Astron. Jour.* **110**, 1009–1015.
- BURATTI, B.J., HEINZE, A., TRYKA, K.A., MOSHER, J.A., YOUNG, J., ATIENZA-ROSEL, J., AND MIJIC, M. (1999) Pluto’s lightcurve in 1999. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- BURATTI, B.J., HILLIER, J.K., HEINZE, A., AND HICKS, M.D. (2000) Pluto: photometric evidence for volatile transport? *Bull. Amer. Astron. Soc.* **32**, 1082–1083 (Abstract).
- BURATTI, B.J., HILLIER, J.K., HEINZE, A., AND HICKS, M.D., TRYKA, J.A., MOSHER, M., GARSKE, M., YOUNG, J., AND ATIENZA-ROSEL, J. (2003) Photometry of Pluto in the last decade and before: evidence for volatile transport? *Icarus* **162**, 171–183.
- BURATTI, B.J. (2006) Educators learn the latest about small bodies in the solar system. *Eos* **89**, 89.
- BURATTI, B.J., DALBA, P.A., HICKS, M., CHU, D., O’NEILL, A., AND CHESLEY, J.P. (2013) Volatile transport on Pluto: first results from the 2013 observing season. *AGU Fall Meeting* **P51B**, 1743 (Abstract).

- BURATTI, B.J., HICKS, M.D., DALBA, P.A., CHU, D.S., O'NEILL, A., HILLIER, J.K., AND BANHOLZER, S. (2014) Continued volatile transport on Pluto: first results from the 2014 observing season. *Bull. Amer. Astron. Soc.* **46**, 404.06 (Abstract).
- BURATTI, B.J., HICKS, M.D., DALBA, P.A., CHU, D., O'NEILL, A., HILLIER, J.K., MASIERO, J., BANHOLZER, S., AND RHOADES, H. (2015) Observing the rotational lightcurve of Pluto through time: evidence for continuing volatile transport. *Lunar & Planetary Sci.* **46**, 1575 (Abstract).
- BURATTI, B.J., HICKS, M.D., BAUER, J.M., HILLIER, J., AND BANHOLZER, S. (2012) Tracking seasonal volatile transport on Triton and Pluto through the decades. *AGU Fall Meeting abstract #P24B-08*, (Abstract).
- BURATTI, B.J., HICKS, M.D., DALBA, P.A., CHU, D., O'NEILL, A., HILLIER, J.K., MASIERO, J., BANHOLZER, S., AND RHOADES, H. (2015) Photometry of Pluto 2008–2014: evidence of ongoing seasonal volatile transport and activity. *Astrophys. Jour.Lett.* **8-4**, L6–L11.
- BURATTI, B.J., STERN, S.A., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., ENNICO, K., BINZEL, R.P., ZANGARI, A., AND EARLE, A.M. (2015) Migration of frosts from high-albedo regions of Pluto: what New Horizons reveals. *Bull. Amer. Astron. Soc.* **47**, 200.04 (Abstract).
- BURATTI, B.J., HOFGARTNER, J.D., STERN, S.A., WEAVER, H.A., VERBISCHER, A.J., ENNICO, K., OLKIN, C., YOUNG, L., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS TEAM. (2016) The extraordinary albedo variations on Pluto detected by *New Horizons* and implications for dwarf planet Eris. *Bull. Amer. Astron. Soc.* **48**, no. 7, 106–107 (Abstract).
- BURATTI, B.J., HOFGARTNER, J.D., HICKS, M.D., WEAVER, H.A., STERN, S.A., MOMARY, T., MOSHER, J.A., BEYER, R.A., VERBISCHER, A.M., ZANGARI, A.M., YOUNG, L.A., LISSE, C.M., SINGER, K., CHENG, A., GRUNDY, W.M., ENNICO, K., AND OLKIN, C.B. (2017) Global albedos of Pluto and Charon from LORRI *New Horizons* observations. *Icarus* **287**, 207–217.
- BURATTI, B.J., HILLIER, J.K., ABGARIAN, M., KUTSOP, N., DEVINS, S., MOSHER, J.A., STERN, S.A., WEAVER, H.A., OLKIN, C., YOUNG, L., AND ENNICO, K. (2017) Triton, Pluto, and Titan: a comparison of haze photometry. *Bull. Amer. Astron. Soc.* **49**, 105.05 (Abstract).
- BURATTI, B.J., HICKS, M.D., ABGARIAN, M., LAUER, T., HOFGARTNER, J.D., HILLIER, J., HOWETT, C., VERBISCHER, A., STERN, S.A., WEAVER, H.A., CHENG JR., A.F., OLKIN, C., AND YOUNG, L.A. (2018) The unusual surface roughness of Pluto's moon Charon from New Horizons data. *AGU Fall Meeting Abstracts P54B*, 08 (Abstract).
- BURATTI, B.J., HICKS, M.D., KRAMER, E., AND BAUER, J. (2019) Discovery of remarkable opposition surges on Pluto and Charon. *Lunar & Planetary Sci.* **50**, 1723 (Abstract).
- BURATTI, B.J., HOFGARTNER, J., HILLIER, J.H., HICKS, M.D., VERBISCHER, A.J., STERN, S.A., WEAVER, H.A., HOWETT, C.J.A., YOUNG, L.A., CHENG, A., ENNICO, K., AND OLKIN, C.B. (2019) Photometry and albedo maps of Pluto and Charon. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7023 (Abstract).
- BURATTI, B.J., HICKS, M.D., HILLIER, J.H., VERBISCHER, A.J., ABGARIAN, M., HOFGARTNER, J.D., LAUER, T.R., GRUNDY, W.M., STERN, S.A., WEAVER, H.A., HOWETT, C.J.A., YOUNG, L.A., CHENG, A., BEYER, R.A., LISSE, C.M., ENNICO, K., OLKIN, C.B., AND ROBBINS, S.J. (2019) New Horizons photometry of Pluto's moon Charon. *Astrophys. Jour.Lett.* **874**, no. 1, L3.
- BURATTI, B.J., HICKS, M.D., BAUER, J., AND KRAMER, E. (2019) Pluto and Charon fully illuminated. *AGU Fall Meeting Abstracts P54B*, 08 (Abstract).
- BURATTI, B., KRAMER, E., HICKS, M., AND BAUER, J. (2019) Pluto at opposition: The Palomar Adaptive Optics Campaign. *ESPC–DPS Joint Meeting* **13**, 335B (Abstract).
- BURATTI, B. AND HILLIER, J. (2020) Pluto and Titan: laboratories for the production of organic molecules. *Bull. Amer. Astron. Soc.* **52**, no. 1, 438.02 (Abstract).
- BURATTI, B.J., HILLIER, J.D., HOFGARTNER, J.D., AND HICKS, M.D. (2020) Pluto, Titan, and Triton: how do their haze properties compare? *Lunar & Planetary Sci.* **51**, 1168 (Abstract).

- BURATTI, B.J., HICKS, M., KRAMER, E., BAUER, J., CIARDI, D., AND LUND, M. (2020) Pluto in glory: discovery of a huge opposition surge. *Bull. Amer. Astron. Soc.* **52**, no. 6, 310.03 (Abstract).
- BURATTI, B.J., HICKS, M.D., KRAMER, E., BAUER, J., CIARDI, D.R., LUND, M.B., AND LAWRENCE, K.J. (2021) Pluto in Glory: Discovery of its huge opposition surge. *Geophys. Res. Letters* **48**, no. 12, e92562.
- BURATTI, B.J., HILLIER, J.H., DALBA, P.A., HICKS, M.D., MOSHER, J.A., HENDRIX, A.R., ABRAMSON, L., AND AKHTER, N. (2022) Observations and modeling of the opposition surges of the icy moons of Saturn based on Cassini Visual Infrared Mapping Spectrometer data. *Planetary Sci. Jour.* **3**, no. 8, 200.
- BURGENER, J.A. (2019) The influence of dwarf planets on the stability of objects in the Kuiper Belt. *Lunar & Planetary Sci.* **50**, 3163 (Abstract).
- BURNHAM, R. (1994) At the edge of night: Pluto and Charon. *Astronomy* **22**, no. 1, 40–47.
- BURNHAM, R. (1994) Mr. Lowell’s Observatory—and yours. *Astronomy* **22**, no. 6, 6.
- BURNS, J.A. (1973) Where are the satellites of the inner planets? *Nature and Phys. Sci.* **242**, 23–25.
- BURNS, J.A. (1994) Editorial: Pluto and Charon. *Icarus* **108**, 173.
- BURNS, J.A. (2002) Perspectives: solar system science. Tow bodies are better than one. *Science* **297**, 942–943.
- BURŠA, M. (1994) Tidal and rotational distortions in figures of Pluto and Charon. *Earth, Moon, and Planets* **65**, 291–294.
- BURŠA, M. (1995) Roche equipotentials of the Pluto–Charon system. *Stud. Geophys. Geod.* **39**, no. 1, 1–10.
- BURTON, H.E. AND RAYNSFORD, G.M. (1930) Observations of the Lowell Observatory object. *Astron. Jour.* **40**, 92.
- BURWITZ, V., REINSCH, K., PAKULL, M.W., AND BOUCHET, P. (1991) New aspects of the binary planet Pluto–Charon. *ESO Messenger* **66**, 23–26.
- BUSHMAN, S.S. (2007) “In-space performance of the New Horizons propulsion system.” Paper given at *43rd AIAA/SAE/ASME/ASEE Joint Propulsion Conference*, Cincinnati, OH/AIAA paper #2007-5581.
- BUTLER, B.J. AND GURWELL, M.A. (1999) “Solar system science with ALMA.” Paper given at *Science with the Atacama Large Millimeter Array (ALMA)*, AURA Symposium held at Carnegie Institution of Washington, October 6–8, 1999.
- BUTLER, B.J., GURWELL, M.A., AND MOULLET, A. (2011) EVLA Observations of Pluto, Charon, Makemake, Quaoar, and 2002 TC302 at 0.9 cm wavelength. *EPSC Abstracts* **6**, 1670 (Abstract).
- BUTLER, B.J., GURWELL, M., LELLOUCH, E., MOULLET, A., MORENO, R., BOCKLÉE-MORVIN, D., BIVER, N., FOUCHET, T., LIS, D., STERN, A., YOUNG, L., YOUNG, E., WEAVER, H., BOISSIER, J., AND STANSBERRY J. (2015) Long wavelength observations of thermal emission from Pluto and Charon with ALMA. *Bull. Amer. Astron. Soc.* **47**, 210.04 (Abstract).
- BUTLER, B., GRUNDY, W., GURWELL, M., LELLOUCH, E., MORENO, R., MOULLET, A., AND YOUNG, L.A. (2018) Resolved thermal images of Pluto and Charon with ALMA. *Bull. Amer. Astron. Soc.* **50**, 502.06 (Abstract).
- BUTLER, B.J., GRUNDY, W.M., GURWELL, M.A., LELLOUCH, E., MORENO, R., MOULLET, A., AND YOUNG, L.A. (2019) Observations of Pluto’s surface with ALMA. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7058 (Abstract).
- BUTLER, H. (2006) Planetary turmoil. *Sky and Tel.* **112**, no. 6, 12 (Letter to editor).
- BUZZI, L. (2003) Pluto Observations [204 Schiaparelli Observatory]. *Minor Planet Circular* 49276, 2.
- BUZZI, L. (2004) Pluto Observations [204 Schiaparelli Observatory]. *Minor Planet Circular* 52492, 3.
- BUZZI, L. (2005) Pluto Observations [204 Schiaparelli Observatory]. *Minor Planet Circular* 54557.
- BUZZI, L. (2006) Pluto Observations [204 Schiaparelli Observatory]. *Minor Planet Circular* 56791.

- BYERS, M. (2010) *Percival's Planet: a novel*. (Henry Holt and Co., New York, NY), 432 (Note: this is a fictionalized account.) pp.
- BYERS, G., EVANS, R., BYERS, S., AND NGUYEN, J. (2019) Analysis of Pluto's Al-Idrisi Montes and the adjacent deep trench feature. *Lunar & Planetary Sci.* **50**, 1483 (Abstract).
- BYRD, D. (1988) Eclipses reveal Pluto's parameters. In "Physics News in 1987." *Physics Today* **41**, S13–S14.
- BYRD, D. (1989) Pluto's atmosphere. In "Physics News in 1988." *Physics Today* **42**, S8.
- BYRNE, S. (1987) Let's get Pluto out of the dog house. *Scientist* **1**, no. 19, 12.
- BYRNE, S. AND BROWN, M.E. (1999) 2–4 μ m spectroscopy of Pluto and Triton. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- CABLE, M.H. (2018) "Laboratory investigations connecting terrestrial climates to icy worlds." Paper given at *Comparative Climatology of Terrestrial Planets III: From Stars to Surfaces, held 27-30 August, 2018, in Houston, Texas. LPI Contribution No. 2065, id. 2023.*, .
- CAILLIATE, C. (1951) Sur les densités de Neptune et de Pluton. *Jour. des Observateurs* **34**, 56.
- CAIRNS, I.H. AND FUSELIER, S.A. (2017) The plasma depletion layer beyond the heliopause: evidence, implications, and predictions for Voyager 2 and New Horizons. *Astrophys. Jour.* **834**, no. 2, 197.
- CALANDRA, M.F. AND GIL-HUTTON, R. (2017) Cratering rate on Pluto produced by the inner trans-Neptunian population. *Astron. Astrophys.* **601**, 116.
- CAMARGO, J.I.B., VIEIRA-MARTINS, R., ASSAFIN, M., BRAGA-RIBAS, F., SICARDY, B., DESMARS, J., ANDREI, A.H., BENEDETTI-ROSSI, G., AND DIAS-OLIVEIRA, A. (2014) Candidate stellar occultations by Centaurs and trans-Neptunian objects up to 2014. *Astron. Astrophys.* **561**, A37.
- CAMICHEL, H. AND DAUVILLIER, A. (1944) Sur le satellite de Neptune. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **218**, 32.
- CAMPBELL, A.R., CIMET, C.M. AND DEPENBUSH, N.T. (2009) "Trade study of Earth to Pluto trajectories utilizing a Jovian gravitational assist." Paper given at *47th AIAA Aerospace Sciences Meeting including The New Horizons Forum and Aerospace Exposition*, Orlando, FL. AIAA paper #2009-210.
- CAMPBELL, L. (1938) William Henry Pickering, 1858–1938. *Pub. Astron. Soc. Pacific* **50**, 122–125.
- CAMPBELL, P.J. (1992) Reviews. *Mathematics Magazine* **65**, no. 5, 359.
- CANDY, M.P., HARWOOD, D.N., AND GANS, D.J. (1977) Photographic positions of comets, minor planets, and Pluto observed during 1970–1974. *Perth Obs. Comm.* **3**, 29–65.
- CANDY, M.P. (1982) Possible occultation by Pluto on 1982 April 15. *IAU Circular No. 3674*.
- CANDY, M.P. (1982) Pluto appulse on 1982 April 15. *IAU Circular No. 3688*.
- CANDY, M.P., JOHNSTON, J., AND JEKABSONS, P. (1985) Photographic positions of comets, minor planets, and Pluto observed during 1975–1980. *Perth Obs. Comm.* **4**, 67–197.
- CANNON, A.J. (1938) William Henry Pickering 1858–1938. *Science* **87**, 179–180.
- CANUP, R. AND ASPHAUG, E. (2002) Simulations of potential Pluto–Charon forming impacts. *Bull. Amer. Astron. Soc.* **34**, no. 3, 889 (Abstract).
- CANUP, R. AND ASPHAUG, E. (2003) On an impact origin of Pluto–Charon. *Lunar & Planetary Sci.* **34**, 1984 (Abstract).
- CANUP, R. (2004) An impact formation of Pluto–Charon. *Bull. Amer. Astron. Soc.* **36**, 855 (Abstract).
- CANUP, R. (2005) A giant impact origin of Pluto–Charon. *Science* **307**, 546–550.
- CANUP, R. (2011) On a giant impact origin of Charon, Nix, and Hydra. *Astron. Jour.* **141**, no. 2, 35–43.
- CANUP, R. (2012) Forming a Moon with an Earth-like composition via a giant impact. *Science* **338**, no. 6110, 1052–1054.

- CANUP, R.M., KRATTER, K.M., AND NEVEU, M. (2020) “On the origin of the Pluto system.” In *The Pluto System After New Horizons*, Stern, S.A., Moore, J.M., Grundy, W.M., Young, L.A., and Binzel, R.P., eds. (Tucson: Univ. Arizona Press), pp. U. Arizona Press, Tucson, AZ475–506.
- CANUP, R.M., KRATTER, K.M., AND NEVEU, M. (2020) “Trans-Neptunian space and the post-Pluto paradigm.” In *The Pluto System After New Horizons*, Stern, S.A., Moore, J.M., Grundy, W.M., Young, L.A., and Binzel, R.P., eds. (Tucson: Univ. Arizona Press), pp. 545–568.
- CANAÑAS, M.H., LYRA, W., CARERRA, D., KRAPP, L., SENGUPTA, D., SIMON, J.B., UMURHAN, O.M., YANG, C.C., AND YODIN, A.N. (2024) A solution for the density dichotomy problem of Kuiper Belt Objects with multispecies streaming instability and pebble accretion. *Planetary Sci. Jour.* **5**, no. 2, 55.
- CARBERRY MOGAN, S., TUCKER, O., JOHNSON, R., SAHIN, I., AND TAFUNI, A. (2019) Gridless DSMC models of Callisto’s atmosphere. *ESPC–DPS Joint Meeting* **13**, 44C (Abstract).
- CARLISLE, C.M. (2018) Solar System: Dunes on Pluto. *Sky and Tel.* **136**, no. 3, 8.
- CARLOWICZ, M. (1996) Face of Pluto emerges from the shadows. *Eos* **77**, no. 12, 111.
- CARMACK, R., LOEFFLER, M., AND TRIBBETT, P. (2021) Pore accessibility in cold solar system ices. *Bull. Amer. Astron. Soc.* **53**, 308.07 (Abstract).
- CARNAHAN, E., VANCE, S.D., HESSE, M.A., JOURNAUX, B., AND SOTIN, C. (2022) Dynamics of mixed clathrate–ice shells on ocean worlds. *Geophys. Res. Letters* **49**, no. 8, e97602.
- CARNELLI, I., DACHWALD, B., AND VASILE, M. (2007) “Optimizing low-thrust gravity assist interplanetary trajectories using evolutionary neurocontrollers.” Paper given at *2007 IEEE Congress on Evolutionary Computation, 25–28 September 2007, Singapore*, 965–972.
- CARPINO, M., MILANI, A., AND NOBILI, A.M. (1987) Long-term numerical integrations and synthetic theories for the motion of the outer planets. *Astron. Astrophys.* **181**, 182–194.
- CARR, G.A. (1996) “Pluto Express power system architecture.” Paper given at *31st Intersociety Energy Conversion Engineering Conference, 11–16 August 1996*, Washington, D.C., paper #1996.552843, Vol. 1, 41–47.
- CARR, G.A., WESTER, G., DANIELAK, B., SAUERS, J.D., HOGUE, D., AND HOLIC, J. (2000) X2000 power system electronics development. *Proceedings of the 2000 IEEE Aerospace Conference* **5**, 341–354.
- CARROLL, M.W. (1993) Cheap shots. *Astronomy* **21**, no. 8, 38–47.
- CARROLL, M.W. (1994) United States, Russia consider Pluto mission. *Astronomy* **23**, no. 1, 28.
- CARROLL, M. (1994) A new mission to Pluto. *Ad Astra* **6**, no. 6, 44.
- CARROLL, M. (2007) New Horizons encounters Jupiter. *Astron. Now* **21**, 22–26.
- CARROLL, M. (2017) Your guide to the oceans of the solar system. *Astronomy* **45**, no. 11, 24–29.
- CARSON, M.K. (2017) *Mission to Pluto: the first visit to an ice dwarf and the Kuiper Belt (Scientists in the Field Series)*. (New York, NY, Houghton Mifflin Harcourt Publishing Co.), 80 pp.
- CARUSO, K.S., HOGUE, P., AND MONIB, K.M. (2004) Thermally conductive electrically insulating aromatic silicone film adhesive for the New Horizons mission. *Proc. SPIE* **5526**, 79–90 (Abstract). (Abstract).
- CASACCI, C. (1978) Plutone ha un satellite? *Orione* **1**, 96.
- CASTELVECCHI, D. (2020) Pluto probe offers eye-popping view of neighbouring star Proxima Centauri. *Nature* **582**, no. 7813, 472.
- CASTILLO-ROGEZ, J., HOFGARTNER, J.D., SINGER, K., COCKELL, C., HOLLER, B.J., NEVEU, M., BOSE, M., SWINDLE, T., HOWETT, C., LAZIO, J., ELLIOTT, J., SCULLY, J., AND NATHUES, A. (2021) Habitability of small bodies — state of knowledge and motivations for exploration in the next decade. *Planetary Science and Astrobiology Decadal Survey 2023–2032 white paper; Bull. Amer. Astron. Soc.* **53**, no. 4, e–id. 139.
- CESCO, R.P. (1944) Perturbaciones seculares de Plutón. *Observatorio Astronómico de la Universidad Nacional de La Plata. Série Astronómica* **17**, 1–69.

- CHADHA, K.S. (2006) Should Pluto count? *Astron. Now* **20**, no. 9, 36–39 (Abstract).
- CHAIKEN, A. (1983) New light on cold worlds. *Sky and Tel.* **66**, 23–25.
- CHAIKEN, A. (1991) Plutonic affairs. *Technology Review* **94**, no. 6, 13.
- CHAISSON, E.J. (1992) Early results from the Hubble Space Telescope. *Sci. Amer.* **266**, no. 6, 44–51.
- CHAMBERLAIN, D.M. AND ELLIOT, J.L. (1997) A numerical method for calculating stellar occultation light curves from an arbitrary atmospheric model. *Pub. Astron. Soc. Pacific* **109**, 1170–1180.
- CHAN, J., WISER, J., BROWN, G., FLORIN, D., AND ORTI, S.M. (2014) “System-level testing of the Advanced Stirling Radioisotope Generator engineering hardware.” Paper given at *12th International Energy Conversion Engineering Conference*, Cleveland, OH. AIAA paper #2014-3966.
- CHANCIA, R. AND HEDMAN, M. (2018) The structure of Jupiter’s main ring from New Horizons: a comparison with other ring-moon systems. *Bull. Amer. Astron. Soc.* **49**, no. 4, 100.04 (Abstract).
- CHANDLER, S.C. (1898) On a suitable name for the new planet. *Science* **8**, 672–674.
- CHANG, Y., LEAR, M.H., MCGRATH, B.E., HEYLER, G.A., TAKASHIMA, N., AND OWINGS, W.D. (2007) New Horizons launch contingency effort. *Space Technology and Applications International Forum—STAIF 2007: 11th Conf. Thermophys. Applic. in Micrograv., 24th Symp Space Nucl. Pwr. Propulsion, 5th Conf. Hum/Robotic Tech. & Vision Space Explor., 5th Symp Space Coloniz., 4th Symp New Frontiers & Future Con. AIP Conference Proceedings* **880**, 590–596.
- CHANT, C.A. (1930) A new major planet. *Jour. Roy. Astron. Soc. Canada* **24**, 193–195.
- CHANT, C.A. (1930) The new planets (?). In “Notes and Queries,” *Jour. Roy. Astron. Soc. Canada* **24**, 238–240.
- CHANT, C.A. (1930) Orbit of planet X: the Ottawa object. *Jour. Roy. Astron. Soc. Canada* **24**, 241.
- CHANT, C.A. (1930) The planet Pluto. In “Notes and Queries,” *Jour. Roy. Astron. Soc. Canada* **24**, 342.
- CHANT, C.A. (1930) The planet Pluto. In “Notes and Queries,” *Jour. Roy. Astron. Soc. Canada* **24**, 344.
- CHANT, C.A. (1931) Early photographs showing Pluto. *Jour. Roy. Astron. Soc. Canada* **25**, 133.
- CHANT, C.A. (1931) Astronomical achievements in 1930. In “Notes and Queries,” *Jour. Roy. Astron. Soc. Canada* **24**, 193–195.
- CHANT, C.A. (1932) The orbit and mass of Pluto. *Jour. Roy. Astron. Soc. Canada* **25**, 421–422.
- CHANT, C.A. (1943) Notes and Queries—Celebration of the Newton Tercentenary. Pluto—its mass, diameter, density; Lunar eclipse of February 19–20, 1943; Meteoritic iron in ancient Egypt. *Jour. Roy. Astron. Soc. Canada* **37**, 125–126.
- CHAPMAN, C.R. (1981) News & Reviews. *Planetary Report* **1**, no. 4, 12.
- CHAPMAN, C.R. (1983) News & Reviews. *Planetary Report* **3**, no. 1, 12.
- CHAPMAN, C.R. (1987) News & Reviews. *Planetary Report* **7**, no. 3, 14.
- CHAPMAN, C.R. (1987) Mysteries of Pluto. In “News & Reviews.” *Planetary Report* **7**, no. 6, 19.
- CHAPMAN, C.R. (1988) Heavenly chaos. In “News & Reviews.” *Planetary Report* **8**, no. 4, 17.
- CHAPMAN, C.R. (1990) A small, double planet. *Planetary Report* **10**, no. 4, 27.
- CHAPMAN, C.R. (1992) News & Reviews. *Planetary Report* **12**, no. 5, 31.
- CHAPMAN, C.R. (1992) Putting Pluto on the fast track. In “News & Reviews.” *Planetary Report* **12**, no. 6, 26.
- CHAPMAN, C.R. (1996) Pipsqueak or planet? In “News & Reviews.” *Planetary Report* **16**, no. 3, 18.
- CHAPMAN, D.M.F. (2003) Reflections: J.W. Christy and the discovery of Charon, Pluto’s satellite. *Jour. Roy. Astron. Soc. Canada* **97**, 126.
- CHAPMAN, D.M.F. (2004) Reflections: Percival Lowell, Lowell Observatory, and Pluto. *Jour. Roy. Astron. Soc. Canada* **99**, 10.

- CHAPRONT, J. AND VU, D.T. (1984) A new compact representation of ephemerides—Application to Pluto, the Sun, and the Galilean satellites. *Astron. Astrophys.* **141**, 131–143.
- CHAPRONT, J. (1984) Approximation methods in celestial mechanics—Applications to Pluto’s motion. *Cel. Mech.* **34**, 165–184.
- CHAPRONT, J. (1995) Representation of planetary ephemerides by frequency analysis: application to the five outer planets. *Astron. Astrophys.Supp.* **109**, 181–192.
- CHAUFRAY, J.Y. (2021) Departure of the thermal escape rate from the Jeans escape rate for atomic hydrogen at Earth, Mars, and Pluto. *Planetary and Spa. Sci.* **198**, 105178.
- CHEBOTAREV, G.A. (1972) Search for transplutonian planets by means of periodic comets. *Byull. Inst. Teor. Astron.* **13**, 145–147.
- CHELLI, A. (1986) Concerning the discovery of a new planet. *L’Astronomie* **100**, 61–70.
- CHEN, H.Z. AND YIN, A. (2019) Tectonic history of the Oz Terra of Charon as revealed by systematic structural mapping. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7007 (Abstract).
- CHEN, H.Z. AND YIN, A. (2021) Geomorphologic evidence for ice-sheet glaciation on Pluto’s largest moon Charon. *Lunar & Planetary Sci.* **52**, 1460 (Abstract).
- CHEN, H. AND YIN, A. (2022) Impacts of thrusting, extensional faulting, and glaciation on cratering records of Pluto’s largest moon Charon: implications for the evolution of Kuiper belt objects. Submitted to *arXiv:2208.12859*.
- CHEN, S., YOUNG, E., YOUNG, L., TANGUY, B., FORGET, F., AND YUNG, Y. (2020) Comparing Pluto global climate model occultation lightcurves with observations. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.02 (Abstract).
- CHEN, S., YOUNG, E.F., YOUNG, L.A., BERTRAND, T., FORGET, F., AND YUNG, Y.L. (2021) Global climate model occultation lightcurves tested by August 2018 ground-based stellar occultation. *Icarus* **356**, 113976.
- CHEN, S., ADAMS, D., WILLACY, K., FAN, S., AND YUNG, Y. (2021) Investigating photochemical hazes on Pluto with a photochemical-microphysical model. *Bull. Amer. Astron. Soc.* **53**, 114.04 (Abstract).
- CHENG, A. AND MCNUTT, JR., R.L. (1993) A magnetosphere at Pluto? *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- CHENG, A.F. AND YOUNG, L.A. (2002) Mission seeks to explore Pluto–Charon. *Eos* **83**, 384, 389.
- CHENG, A.F., WEAVER, H.A., CONARD, S.J., MORGAN, M.F., BARNOUIN-JHA, O., BOLDT, J.D., COOPER, K.A., DARLINGTON, E.H., GREY, M.P., HAYES, J.R., KOSAKOWSKI, K.E., MAGEE, T., ROSSANO, E., SAMPATH, D., SCHLEMM, C., AND TAYLOR, H.W. (2007) Long-Range Reconnaissance Imager on New Horizons. *Spa. Sci. Rev.* **140**, 189–215.
- CHENG, A.F. (2008) “New Horizons mission to Pluto and the Kuiper Belt.” Paper given at *37th COSPAR Scientific Assembly, 13–20 July 2010. Montréal, Canada, p. 514, .*
- CHENG, A.F., CONARD, S.J., WEAVER, H.A., MORGAN, F., AND NOBLE, M. (2010) Stray light performance of the long range reconnaissance imager (LORRI) on the New Horizons Mission. *Proc. SPIE* **7731**, 77311A, 9 pp (Abstract).
- CHENG, A.F., WEAVER, H.A., CONARD, S.J., MORGAN, M.F., BARNOUIN-JHA, O., BOLDT, J.D., COOPER, K.A., DARLINGTON, E.H., GREY, M.P., HAYES, J.R., KOSAKOWSKI, K.E., MAGEE, T., ROSSANO, E., SAMPATH, D., SCHLEMM, C., AND TAYLOR, H.W. (2012) Long-Range Reconnaissance Imager on New Horizons. *International Workshop on Instrumentation for Planetary Missions Contribution No. 1683*, 1091.
- CHENG, A.F., GLADSTONE, R., SUMMERS, M., PARKER, A., SPENCER, J., YOUNG, L., WEAVER, H., ENNICO, K., OLKIN, C., AND STERN, A. (2015) Discovery of hazes in Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **47**, 105.02 (Abstract).

- CHENG, A.F., SUMMERS, M.E., GLADSTONE, G.R., STROBEL, D.F., YOUNG, L.A., LAVVAS, P., KAMMER, J.A., LISSE, C.M., PARKER, A.H., YOUNG, E.F., STERN, S.A., WEAVER, H.A., OLKIN, C.B., AND ENNICO, K. (2016) Haze layers in Pluto’s atmosphere. *Lunar & Planetary Sci.* **47**, 2316 (Abstract).
- CHENG, A.F., SUMMERS, M., GLADSTONE, R., STROBEL, D.F., YOUNG, L., LAVVAS, P., KAMMER, J.A., LISSE, C.M., PARKER, A.H., YOUNG, E.F., STERN, S.A., WEAVER, H.A., OLKIN, C.B., AND ENNICO, K. (2016) Haze in Pluto’s atmosphere: implications for processes and evolution. *Bull. Amer. Astron. Soc.* **48**, no. 7, 160 (Abstract).
- CHENG, A.F., SUMMERS, M.E., GLADSTONE, G.R., STROBEL, D.F., YOUNG, L.A., LAVVAS, P., KAMMER, J.A., LISSE, C.M., PARKER, A.H., YOUNG, E.F., STERN, S.A., WEAVER, H.A., OLKIN, C.B., AND ENNICO, K. (2017) Haze in Pluto’s atmosphere. *Icarus* **290**, 112–133.
- CHENG, A.F., SUMMERS, M.E., GLADSTONE, G.R., LAUER, T., YOUNG, L.A., LAVVAS, P., KAMMER, J.A., LISSE, C.M., PARKER, A.H., YOUNG, E.F., STERN, S.A., WEAVER, H.A., OLKIN, C.B., AND ENNICO, K. (2018) Pluto’s atmospheric haze distribution to above 600 km: no winter pole N₂ condensation. *Lunar & Planetary Sci.* **49**, 1492 (Abstract).
- CHENG, W.H., LEE, M.H., AND PEALE, S.J. (2014) Complete tidal evolution of Pluto–Charon. *Icarus* **233**, 242–258.
- CHENG, W.H., PEALE, S.J., AND LEE, M.H. (2014) On the origin of Pluto’s small satellites by resonant transport. *Icarus* **241**, 180–189.
- CHERNYKH, L.I., AND CHERNYKH, N.S. (1971) Observations of the planet Pluto, the minor planets 10 Hygiea and 433 Eros, and Saturn’s satellites VII, VIII, and IX at the Crimean Astrophysical Observatory of the Academy of Sciences of the USSR. *Bull. Inst. Theor. Astron.* **12**, 739–741.
- CHHABRA, J.G., SHARMA, S.D., AND KHANNA, M. (1984) Prediction of Pluto by V.B. Ketakar. *Indian Jour. Hist. Sci.* **19**, 18–26.
- CHIAO, M. (2016) New Horizons: small but still special. *Nature Physics* **12**, no. 3, 203.
- CHIEN, P. (1996) NASA’s new space age. *Pop. Mech.* **173**, no. 4, 40–41.
- CHIEN, P. (2001) Going to extremes. *Pop. Sci.* **259**, no. 3, 54–55 (September 2001).
- CHIN, C.-H., CHEN, S.-C., LIU, M.-C., HUANG, T.-P., AND WU, Y.-J. (2016) Infrared and ultraviolet spectra of methane diluted in solid nitrogen and irradiated with electrons during deposition at various temperatures. *Astrophys. Jour.Supp.* **224**, 17.
- CHRISTIANSEN, L.L. (2007) Communication of the “Pluto Affair.” *Space Telescope European Coordinating Facility Newsletter* **41**, 16–19.
- CHRISTMAN, J.F. (1993) What is serendipity? *Odyssey* **2**, no. 8, 4–10.
- CHRISTY, J.W. AND HARRINGTON, R.S. (1978) The satellite of Pluto. *Astron. Jour.* **83**, 1005–1008.
- CHRISTY, J.W. AND HARRINGTON, R.S. (1980) The discovery and orbit of Charon. *Icarus* **44**, 38–40.
- CHRISTY, J.W. (1997) “The discovery of Pluto’s moon, Charon, in 1978.” In *Pluto and Charon*, S.A. Stern and D.J.Tholen (Tucson, AZ, U. Arizona, Press), xvii.
- CIACCIO, E.J. (1984) Atmospheres. *Astronomy* **12**, no. 5, 6–22.
- CLANCY, K., ELLIOT, J.L., PERSON, M.J., CARBONARI, K.M., KLESMAN, A.J., MCEVOY, E.L., MEECHAI, J., QU, S., DUNHAM, E.W., BOSH, A.S., BUIE, M.W., WASSERMAN, L.H., MORRISON, A., STONE, R.C., AND LEVINE, S.E. (2002) Prediction of the 2002 July 20 stellar occultation by Pluto. *Bull. Amer. Astron. Soc.* **34**, no. 3, 872 (Abstract).
- CLANCY, K., ELLIOT, J.L., PERSON, M.J., BOSH, A.S., BUIE, M.W., DUNHAM, E.W., WASSERMAN, L.H., LEVINE, S.E., AND STONE, R.C. (2002) The position of Pluto relative to its ephemeris. *Bull. Amer. Astron. Soc.* **34**, 1212 (Abstract).

- CLANCY, K., ELLIOT, J.L., AND PERSON, M.J. (2003) “Pluto/Charon light ratio.” Paper given at *Recent Progress in Planetary Exploration, 25th meeting of the IAU, Special Session 1, 17–18 July, 2003*, Sydney, Australia.
- CLANCY, K., ELLIOT, J.L., AND PERSON, M.J. (2003) Charon/Pluto light ratio. *Highlights of Astronomy* **13**, 916.
- CLARK, C.S., CLARK, P.E., AND STOOKE, P.J. (2016) Constant-scale natural boundary mapping and (I) graphic analysis of shear cracks on Enceladus, (II) geomorphology on Comet 67P/Churyumov-Gerasimenko, and (III) context of Tombaugh Regio on Pluto. *Lunar & Planetary Sci.* **47**, 1044 (Abstract).
- CLARK, C. (2020) Elizabeth Williams and the discovery of Pluto. *Bull. Amer. Astron. Soc.* **52**, no. 1, 181.04 (Abstract).
- CLARK, J.T., STERN, S.A., AND TRAFTON, L.M. (1992) Pluto’s extended atmosphere: an escape model and initial observations. *Icarus* **95**, 173–179.
- CLARK, K.B. (1998) From the Sun to Pluto. *Proceedings of the 17th Digital Avionics Systems Conference, 1998* **2**, H23/1–H23/8.
- CLARK, R.N. (1982) Implications of using broadband photometry for compositional remote sensing of icy objects. *Icarus* **49**, 244–257.
- CLARK, R.N., FANALE, F.P., AND ZENT, A.P. (1983) Frost grain size metamorphism—implications for remote sensing of planetary surfaces. *Icarus* **56**, 233–245.
- CLARK, R.N., FANALE, F.P., AND ZENT, A.P. (1983) Kinetics of ice grain growth: implications for remote sensing of planetary surface. *Lunar & Planetary Sci.* **14**, 120–121 (Abstract).
- CLARK, R.N., FANALE, F.P., AND GAFFEY, M.J. (1986) “Surface composition of icy satellites.” In *Satellites*, J.A. Burns and M.S. Matthews, eds. (Tucson: Univ. Arizona Press), pp. 437–491.
- CLARK, S. (2006) Pluto—to be or not to be? *Astron. Now* **20**, no. 10, 28–31.
- CLARK, G., COHEN, I., WESTLAKE, J.H., ANDREWS, G.B., BRANDT, P., GOLD, R.E., GKIOULIDOU, M.A., HACALA, R., HAGGERTY, D., HILL, M.E., HO, G.C., JASKULEK, S.E., KOLLMANN, P., MAUK, B.H., MCNUTT, R.L., MITCHELL, D.G., NELSON, K.S., PARANICAS, C., PASCHALIDIS, N., AND SCHLEMM, C.E. (2016) The “Puck” energetic charged particle detector: design, heritage, and advancements. *Jour. Geophys. Res.* **212**, no. 87900–7913.
- CLARKE, J.T., STERN, S.A., AND TRAFTON, L.A. (1992) Pluto’s extended atmosphere: an escape model and initial observations. *Icarus* **95**, 173–179.
- CLEGG, P. (1990) Spectroscopy with ISO. *Nuovo Cimento C, Serie 1* **13**, 249–268.
- CLEMENCE, G.M. AND BROUWER, D. (1951) The motions of the five outer planets. *Sky and Tel.* **10**, 83–86.
- CLEMENS, D.P., SARCIA, D., GRABAU, A., TOLLESTRUP, E.V., BUIE, M.W., DUNHAM, E., AND TAYLOR, B. (2007) Mimir: a near-Infrared Wide-Field Imager, Spectrometer, and Polarimeter. *Pub. Astron. Soc. Pacific* **119**, 1385–1404.
- CLIFFORD, S.M. (1988) Planetology. *Geotimes* **30**, no. 2, 51–52.
- CLOSE, L.M., MERLINE, W.J., THOLEN, D.J., OWEN, T., RODDIER, F., AND DUMAS, C. (1999) Adaptive optics imaging of Pluto–Charon and the discovery of a moon around the asteroid 45 Eugenia: the potential of adaptive optics in planetary astronomy. *Bull. Amer. Astron. Soc.* **31**, 1585 (Abstract).
- CLOSE, L.M., MERLINE, W.J., THOLEN, D.J., OWEN, T., RODDIER, F., AND DUMAS, C. (2000) Adaptive optics imaging of Pluto–Charon and the discovery of a moon around the asteroid 45 Eugenia: the potential of adaptive optics in planetary astronomy. *Proc. SPIE* **4007**, 787–795.
- CLOUGHLEY, D.E. (1994) Pluto’s phenomenal moon. *Odyssey* **3**, no. 8, 20–23.
- COATES, A.J. (1999) The solar system in the next millenium. *Philosophical Transactions of the Royal Society of London, Series A—Mathematical, Physical, and Engineering Sciences* **357**, 3299–3317.

- COBA, F., BURGIN, S., AND DE PAOR, D.G. (2016) Google Earth and beyond. Teaching and learning in the Earth and Planetary Sciences at all education levels. *Geological Soc. Amer. Annual Meeting* **T76**, 67-17 (Abstract).
- COCHRAN, W.D. AND LIGHT-COCHRAN, A. (1978) Digicon spectroscopy of Triton and Pluto. *Bull. Amer. Astron. Soc.* **10**, 585–586 (Abstract).
- COCHRAN, W.D. AND SAWYER, S.R. (1986) Time resolved spectrophotometry of Pluto. *Bull. Amer. Astron. Soc.* **18**, 822 (Abstract).
- COCKFIELD, R.D. (2000) “Radioisotope Stirling generator concepts for planetary missions.” Paper given at *35th Intersociety Energy Conversion Engineering Conference*, Las Vegas, NV. AIAA paper #2000-2843.
- COCKFIELD, R.D. (2006) “Preparation of RTG F8 for the Pluto New Horizons Mission.” Paper given at *4th International Energy Conversion Engineering Conference*, San Diego, CA. AIAA paper #2006-4031.
- COHEN, C.J. AND HUBBARD, E.C. (1964) Libration of Pluto–Neptune. *Science* **145**, 1302–1303.
- COHEN, C.J. AND HUBBARD, E.C. (1965) Libration of the close approaches of Pluto to Neptune. *Astron. Jour.* **70**, 10–13.
- COHEN, C.J. AND HUBBARD, E.C. (1965) The orbit of Pluto. *The Observatory* **85**, 43–44 (Letter to editor).
- COHEN, C.J., HUBBARD, E.C., AND OESTERWINTER, C. (1967) New orbit for Pluto and analysis of differential corrections. *Astron. Jour.* **72**, 973–988.
- COHEN, C.J., HUBBARD, E.C., AND OESTERWINTER, C. (1968) Erratum: New orbit for Pluto and analysis of differential corrections. *Astron. Jour.* **73**, 290.
- COHEN, C.J. AND HUBBARD, E.C. (1973) Elements of the outer planets for one million years. *Astron. Papers Amer. Eph. & Nautical Almanac* **XX**, Part I, 3–94.
- COHEN, I., RYMER, A., RUNYON, K., CLYDE, B., AND THE NEPTUNE–ODYSSEY PLANETARY PRE-DECADAL MISSION CONCEPT STUDY TEAM. (2020) Neptune Odyssey: mission to the Neptune–Triton system. *Bull. Amer. Astron. Soc.* **52**, no. 6, 001.01 (Abstract).
- COHEN, R. (1991) Plutos galore: ice dwarfs may dominate the solar system’s planetary population. *Sci. News* **140**, 184–186.
- COLE, G.H.A. (1984) Interior structures of the icy satellites and of Pluto. *Q. Jour. R.A.S.* **25**, 19–27.
- COLE, G.H.A. (1988) Atmospheres as a clue to the early solar system. *Phil. Trans. R.A.S. London, Ser. A, Math. and Phys. Sci.* **325**, no. 1587, 569–582.
- COLE, K.J. (1991) Can the Cassini payload conduct Pluto flyby science? *Lunar & Planetary Sci.* **22**, 227.
- COLEMAN, G.A.L. (2021) From dust to planets — I. Planetesimal and embryo formation. *Mon. Not. Roy. Astron. Soc.* **506**, no. 3, 3596–3614.
- COLGRAVE, W.G. (1937) Let us have a proper symbol for Pluto. *Jour. Roy. Astron. Soc. Canada* **31**, 55 (Letter to editor).
- COLLINS, D.H. (1990) “Pluto flyby study.” Paper given at *Discovery Program Science Working Group*, Washington, DC, May 16.
- COLLINS, G.C. AND PAPPALARDO, R.T. (2000) Predicted stress patterns on Pluto and Charon due to their mutual orbital evolution. *Lunar & Planetary Sci.* **31**, 1035–1036 (Abstract).
- COLLINS, G.C. AND BARR, A.C. (2008) Tectonics and interior structure of Pluto: predictions from the orbital evolution of the Pluto-Charon system. *AGU Fall Meeting Abstracts* **P51C**, 1425 (Abstract).
- COLLINS PETERSEN, C. (2007) *Is Pluto a planet? a historical journey through the solar system*, by D.A. Weintraub. (Book review) *Sky and Tel.* **113**, no. 4, 79.
- COLOMBO, G. AND FRANKLIN, F.A. (1970) “On the evolution of the solar system and the Pluto–Neptune case.” In *Periodic orbits, stability, and resonances*, ed. G.A.O. Giacaglia (Reidel), pp. 328–331.
- COMAN, E. AND PHILLIPS, C.B. (2011) Volcanic resurfacing of Io between Galileo and New Horizons observations. *AGU Fall Meeting Abstracts* **P24D**, 1742 (Abstract).

- COMBE, M.R. (1996) Time-dependent gas kinetics in tenuous planetary atmospheres: the cometary coma. *Icarus* **123**, 207–226.
- COMELLO, G. (1980) De zichtbaarheid van Pluto. *Zenit* **7e**, 56–57.
- COMMITTEE ON LUNAR AND PLANETARY EXPLORATION SPACE STUDIES BOARD, COMMISSION ON PHYSICAL SCIENCES, MATHEMATICS, AND APPLICATIONS, NATIONAL RESEARCH COUNCIL (1998) *Exploration of the trans-Neptunian solar system*. (National Academy Press, Washington, D.C.), 60 pp.
- CONARD, S.J., AZAD, F., BOLDT, J.D., CHENG, A., COOPER, K.A., DARLINGTON, E.H., GREY, M.P., HAYES, J.R., HOGUE, P., KOSAKOWSKI, K.E., MAGEE, T., MORGAN, M.F., ROSSANO, E., SAMPATH, D., SCHLEMM, C., AND WEAVER, H.A. (2005) Design and fabrication of the New Horizons Long-Range Reconnaissance Imager. *Proc. SPIE* **5906**, 407–420.
- CONARD, S., BLANK, T., GROSS, J., KAMIN, R., AND MOORE, J. (2019) The use of fixed observatories for faint high value occultations. *Jour. for Occultation Astronomy* **9**, no. 3, 10–21.
- CONN HENRY, R. AND MURTHY, J. (2016) Possible New Horizons fundamental contribution to cosmology. *Bull. Amer. Astron. Soc.* **227**, 443.02 (Abstract).
- CONRAD, A.R., GOODRICH, R.W., CAMPBELL, R.D., MERLINE, W.J., DRUMMOND, J.D., DUMAS, C., AND CARRY, B. (2009) Keck observations of solar system objects: perspectives for extremely large telescopes. *Mon. Not. Roy. Astron. Soc.* **105**, 115–122.
- CONRAD, J.W., NIMMO, F., SCHENK, P., MCKINNON, W.B., MOORE, J.M., STERN, A., OLKIN, C., YOUNG, L.A., AND WEAVER, JR., H.A. (2018) Determining limits to Pluto’s elastic thickness and heat flux using fault topography. *AGU Fall Meeting Abstracts* **P31I**, 3831 (Abstract).
- CONRAD, J.W., NIMMO, F., BEYER, R.A., SCHENK, P., BIERSON, C.J., AND MOORE, J. (2019) Pluto and Charon’s topographic variance spectra from limb profiles. *AGU Fall Meeting Abstracts* **P33I**, 3538 (Abstract).
- CONRAD, J.W., NIMMO, F., SCHENK, P.M., MCKINNON, W.B., MOORE, J.M., BEDDINGFIELD, C.B., BEYER, R.A., RUNYON, K.D., YOUNG, L.A., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS GGI TEAM. (2019) An upper bound on Pluto’s heat flux from a lack of flexural response of its normal faults. *Icarus* **328**, 210–217.
- CONRAD, J.W., NIMMO, F., BEYER, R.A., SCHENK, P.M., AND BIERSON, C.J. (2020) Pluto and Charon’s topographic variance spectra from limb profiles. *Lunar & Planetary Sci.* **51**, 2271 (Abstract).
- CONSELICE, C. (1999) Astronomer’s notebook: getting Goofy over Pluto. *Mercury* **28**, no. 3, 9.
- CONSOLMAGNO, G.J. AND LEWIS, J.S. (1978) The evolution of icy satellite interiors and surfaces. *Icarus* **34**, 280–293.
- CONSOLMAGNO, G.J. SCHAEFER, M.W. (1994) ““The outer planets.” Chapter 11.” In *Worlds apart: a textbook in planetary sciences* (New Jersey, Prentice Hall), 211–236.
- CONSOLMAGNO, G.J. SCHAEFER, M.W. (1994) ““Planetary satellites.” Chapter 12.” In *Worlds apart: a textbook in planetary sciences* (New Jersey, Prentice Hall), 237–258.
- CONSOLMAGNO, G. (2007) What happened to Pluto? *The Physics Teacher* **45**, no. 1, 14–19.
- CONSOLMAGNO, G. (2011) Pluto: sentinel of the outer solar system. *Meteoritics & Planetary Sci.* **46**, no. 12, 1947–1948 (Book review).
- CONWAY, R.G., DAVIS, R.J., AND PADIN, S. (1986) Microwave measurements of the outer planets. *Mon. Not. Roy. Astron. Soc.* **219**, 31P–33P.
- CONZA, M. (1984) Voyager to Pluto. *Astronomy* **12**, 32.
- COOK, A.M., GERAKINES, P.A., AND SAPERSTEIN, E. (2002) Near-infrared laboratory characterization of UV photolyzed ices of solar system interest. *Bull. Amer. Astron. Soc.* **34**, 908 (Abstract).
- COOK, J.C., YOUNG, L.A., YOUNG, E.F., AND YELLE, R.V. (1999) Atmospheric carbon monoxide on Pluto & Triton at 2336–2343 nm. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).

- COOK, J.C. AND WYKOFF, S. (2003) Pluto and Charon's visible spectrum (3500–9000Å. *Bull. Amer. Astron. Soc.* **35**, 958 (Abstract).
- COOK, J.C., DESCH, S.J., ROUSH, T., GEBALLE, T.R., AND TRUJILLO, C.A. (2006) Near-infrared spectra of Charon: support for cryovolcanism on Kuiper Belt Objects? *Lunar & Planetary Sci.* **37**, 2107 (Abstract).
- COOK, J.C., DESCH, S.J., ROUSH, T.L., GEBALLE, T.R., AND TRUJILLO, C.A. (2006) Near-infrared spectroscopy of Charon: possible evidence for cryovolcanism on Kuiper Belt Objects. *Bull. Amer. Astron. Soc.* **38**, 518 (Abstract).
- COOK, J.C., DESCH, S.J., ROUSH, T.L., TRUJILLO, C.A., AND GEBALLE, T.R. (2007) Near-infrared spectroscopy of Charon: possible evidence for cryovolcanism on Kuiper Belt Objects. *Astrophys. Jour.* **663**, 1406–1419 (Abstract).
- COOK, J.C., DESCH, S.J., AND ROUSH, T.L. (2007) Near infrared spectroscopy of Kuiper Belt Objects: more than just water ice. *Bull. Amer. Astron. Soc.* **39**, 510 (Abstract).
- COOK, J.C., OLKIN, C.B., DESCH, S.J., MASTRAPA, R.M., ROUSH, T.L., AND VERBISCIER, A.J. (2009) Examination of the K-Band spectrum of Charon: possible evidence for multiple ammonia ices. *Lunar & Planetary Sci.* **40**, 2222 (Abstract).
- COOK, J.C. AND YOUNG, L.A. (2010) Searching for CO in Pluto's atmosphere. *Bull. Amer. Astron. Soc.* **42**, 984 (Abstract).
- COOK, J.C., CRUIKSHANK, D.P., AND YOUNG, L.A. (2014) Gemini North/NIRI spectra of Pluto and Charon: simultaneous analysis of the surface and atmosphere. *Bull. Amer. Astron. Soc.* **46**, 401.04.
- COOK, J.C., STERN, S.A., TUCKER, O.J., VERBISCIER, A., AND YOUNG, L.A. (2015) Constraining Pluto's Escaping N₂ Atmosphere Using New Horizons LEISA Observations of Charon. *Lunar & Planetary Sci.* **46**, 2130 (Abstract).
- COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., PROTOPAPA, S., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2015) The search for Pluto water. *Bull. Amer. Astron. Soc.* **47**, 200.02 (Abstract).
- COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., PROTOPAPA, S., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SURFACE COMPOSITION THEME TEAM. (2016) The identification and distribution of Pluto's non-volatile inventory. *Lunar & Planetary Sci.* **47**, 2296 (Abstract).
- COOK, J.C., SINGER, K.N., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., PROTOPAPA, S., STERN S.A., WEAVER H.A., YOUNG, L.A., SCHMITT, B., PHILIPPE, S., STANSBERRY, J.A., BINZEL, R.P., EARLE, A.M., HOWETT, C.J.A., PARKER, A.H., VERBISCIER, A.J., REUTER, D.C., LUNSFORD, A.W., AND JENNINGS, D.E. (2016) Spectral analysis of Pluto's water-ice rich spots at near infrared wavelengths. *Geological Soc. Amer. Annual Meeting T160*, 48-2 (Abstract).
- COOK, J.C., SINGER, K.N., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., PROTOPAPA, S., STERN S.A., WEAVER H.A., YOUNG, L.A., SCHMITT, B., PHILIPPE, S., STANSBERRY, J.A., BINZEL, R.P., EARLE, A.M., HOWETT, C.J.A., PARKER, A.H., VERBISCIER, A.J., REUTER, D.C., LUNSFORD, A.W., AND JENNINGS, D.E. (2016) Spectral analysis of Pluto's water-ice rich spots at near infrared wavelengths. *Geological Soc. Amer. Annual Meeting T160*, 48-2 (Abstract).
- COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., PHILIPPE, S., PROTOPAPA, S., SCHMITT, B., STERN, S.A., WEAVER, H.A., YOUNG, L., AND NEW HORIZONS SURFACE COMPOSITION THEME TEAM. (2016) Spectroscopy of Pluto's small satellites. *Bull. Amer. Astron. Soc.* **48**, no. 7, 89 (Abstract).

- COOK, J.C., BINZEL, R.P., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., GRUNDY, W.M., HOWETT, C., JENNING, D.J., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PHILIPPE, S., PROTOPAPA, S., REUTER, D., SCHMITT, B., STANSBERRY, J.A., STERN, S.A., VERBISCHER, A., WEAVER, H.A., YOUNG, L.A., NEW HORIZONS COMPOSITION THEME TEAM, AND RALPH INSTRUMENT TEAM. (2017) Mapping Charon at 2.21 microns. *Lunar & Planetary Sci.* **48**, 2236 (Abstract).
- COOK, J.C., DALLE ORE, C.M., BINZEL, R.P., CRUIKSHANK, D.P., EARLE, A., ENNICO, K., GRUNDY, W.M., HOWETT, C., JENNINGS, D.J., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PHILIPPE, S., PROTOPAPA, S., REUTER, D., SCHMITT, B., STANSBERRY, J.A., STERN, S.A., VERBISCHER, A., WEAVER, H.A., YOUNG, L.A., NEW HORIZONS COMPOSITION THEME TEAM, AND RALPH INSTRUMENT TEAM. (2017) Composition of Pluto's small satellites: analysis of *New Horizons*' spectral images. *Lunar & Planetary Sci.* **48**, 2478 (Abstract).
- COOK, J.C., YOUNG, L., AND CRUIKSHANK, D.P. (2017) Analysis of archival low-resolution near-infrared spectra to measure Pluto's atmosphere. *Bull. Amer. Astron. Soc.* **49**, 105.03 (Abstract).
- COOK, J.C., DALLE ORE, C.M., PROTOPAPA, S., BINZEL, R.P., CARTWRIGHT, R., CRUIKSHANK, D.P., EARLE, A., GRUNDY, W.M., ENNICO, K., HOWETT, C., JENNINGS, D.E., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PHILIPPE, S., REUTER, D., SCHMITT, B., STANSBERRY, J.A., STERN, S.A., VERBISCHER, A., WEAVER, H.A., AND YOUNG, L.A. (2018) Composition of Pluto's small satellites: analysis of *New Horizons*' spectral images. *Icarus* **315**, 30–45.
- COOK, J.C., DALLE ORE, C.M., PROTOPAPA, S., BINZEL, R.P., CRUIKSHANK, D.P., EARLE, A., GRUNDY, W.M., ENNICO, K., HOWETT, C., JENNINGS, D.E., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PHILIPPE, S., REUTER, D., SCHMITT, B., SINGER, K., STANSBERRY, J.A., STERN, S.A., VERBISCHER, A., WEAVER, H.A., YOUNG, L.A., HANLEY, J., ALKETBI, F., THOMPSON, G.L., PEARCE, L.A., LINDBERG, G.E., AND TEGLER, S.C. (2019) The distribution of H₂O, CH₃OH, and hydrocarbon-ices on Pluto: analysis of *New Horizons* spectral images. *Icarus* **331**, 148–169.
- COOK, J.C., PROTOPAPA, S., CRUIKSHANK, D.P., DALLE ORE, C.M., AND GRUNDY, W.M. (2019) Charon's surface composition. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7049 (Abstract).
- COOK, J.C., DALLE ORE, C.M., SCIPIONI, F., CRUIKSHANK, D.P., GRUNDY, W.M., PROTOPAPA, S., BINZEL, R.P., BRITT, D.T., EARLE, A.M., GABASOVA, L., HOWETT, C., JENNINGS, D.J., KAVALAARS, J.J., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., QUIRICO, E., REUTERS, D., SCHMITT, B., SPENCER, J.R., STERN, S.A., VERBISCHER, A.J., AND WEAVER, H.A. (2019) Comparison of near infrared spectra between Pluto–system objects and 486958 2014 MU69: analysis of *New Horizons* spectral images. *Lunar & Planetary Sci.* **50**, 2818 (Abstract).
- COOK, J., PROTOPAPA, S., DALLE ORE, C., GRUNDY, W., SINGER, K., SPENCER, J., STERN, S.A., AND WEAVER, H. (2021) *New Horizons*/LESIA observations of Charon on approach. *Bull. Amer. Astron. Soc.* **53**, 114.07 (Abstract).
- COOK, J.C., PROTOPAPA, S., DALLE ORE, C.M., CRUIKSHANK, D.P., GRUNDY, W.M., LISSE, C.M., SCHMITT, B., VERBISCHER, A., SINGER, K.N., SPENCER, J., STERN, S.A., AND WEAVER, H.A. (2022) Analysis of Charon's spectrum at 2.21- μ m from *New Horizons*/LEISA and Earth-based observations. *Icarus* **389**, 115242.
- COOPER, J.F. (2019) Plasma and radiation environment in the Kuiper Belt: Pioneer to *New Horizons*. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7056 (Abstract).
- COOPER, S.B. (2006) From Mercury to Pluto: a common approach to mission timekeeping. *Aerospace and Electronic Systems Magazine*, *IEEE* **21**, no. 10, 18–23.
- COPPIETERS, B. (2019) Can Abkhazia be a State if Pluto is not a Planet? Recognition and non-recognition of status in astronomy, international law and political science. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7078 (Abstract).

- CORLISS, W.R. (1985) *The moon and the planets: a catalog of astronomical anomalies* (Sourcebook Project, Glenarm, MD), 383 pp.
- COPPEJANS, R., GULBIS, A.A.S., KOTZE, M.M., COPPEJANS, D.L., WORTERS, H.L., WOUTD, P.A., WHITTAL, H. CLOETE, J., AND FOURIE, P. (2013) Characterizing and commissioning the Sutherland High-Speed Optical Cameras (SHOC). *Pub. Astron. Soc. Pacific* **125**, 976–988.
- CORDIER, D., LIGER-BELAIR, G., BONHOMMEAU, D., SÉON, T., AND CARRASCO, N. (2022) “Capillarity processes at Titan and beyond.” Paper given at *16th Europlanet Science Congress 2022, 18–23 September 2022*, Palacio de Congresos de Granada, Spain. EPSC2022-108.
- CORREIA, A.C.M., LELEU, A., RAMBAUX, N., AND ROBUTEL, P. (2015) Spin-orbit coupling and chaotic rotation for circumbinary bodies. Application to the small satellites of the Pluto–Charon system. *Astron. Astrophys. Lett.* **580**, L14.
- CORREIA, A.C. (2021) Evolution of the Pluto–Charon binary under tides. *Bull. Amer. Astron. Soc.* **53**, no. 5, 501.01 (Abstract).
- CORREIA, A.C.M. (2020) Tidal evolution of the Pluto–Charon binary. *Astron. Astrophys.* **644**, A94.
- COURTLAND, R. (2015) Close encounters of the ninth kind. *IEEE Spectrum* **52**, no. 7, 9–10.
- COURVILLE, S.W., CASTILLO-ROGEZ, J.C., DASWANI, M.M., GLOESENER, E., CHOUKRAOUN, M., AND O’ROURKE, J.G. (2023) Timing and abundance of clathrate formation control ocean evolution in outer solar system bodies: challenges of maintaining a thick ocean within Pluto. *Planetary Sci. Jour.* **4**, no. 9, 179.
- COURVOISIER, L. (1931) Vergleichstern für den Planeten Pluto (BD +22°1676). *Astron. Nachr.* **243**, 257.
- COUSTENIS, A., LELLOUCH, E., BÉZARD, B., AND SCHMITT, B. (1991) Pluto’s observations in the 2.15 to 2.35 μ m region: preliminary study. *Bull. Amer. Astron. Soc.* **23**, 1210 (Abstract).
- COUSTENIS, A. AND ENCRENAZ, T. (1993) High-resolution observations of Pluto in the 2.3 micron region. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- COWEN, R. (1992) Comets: mudballs of the solar system? *Sci. News* **141**, no. 11, 170.
- COWEN, R. (1992) Out of the shadows: a new map of Pluto. *Sci. News* **141**, 379.
- COWEN, R. (1992) Astronomers find abundant nitrogen on Pluto. *Sci. News* **142**, 278.
- COWEN, R. (1993) Two estimates conflict on Charon’s density. *Sci. News* **144**, 22.
- COWEN, R. (1994) News from Pluto and beyond. *Sci. News* **146**, 334.
- COWEN, R. (1995) Solar system scenes: images and spectra offer new views from Venus to Pluto. *Sci. News* **147**, no. 13, 204–206.
- COWEN, R. (1995) Space: the international approach. *Sci. News* **147**, no. 20, 312–314.
- COWEN, R. (1996) Hubble Space Telescope reveals a patchy Pluto. *Sci. News* **149**, no. 11, 166.
- COWEN, R. (1999) Much ado about Pluto. *Sci. News* **155**, no. 11, 139.
- COWEN, R. (1999) Kuiper Belt may hold fragments of Pluto. *Sci. News* **156**, no. 16, 245.
- COWEN, R. (2001) Nine planets, or eight? Probing Pluto’s place in the solar system. *Sci. News* **159**, 360.
- COWEN, R. (2002) Pluto and the occult: rare events illuminate Pluto’s atmosphere. *Sci. News* **162**, no. 10, 148.
- COWEN, R. (2003) A warmer, fluffier Pluto. *Sci. News* **164**, 126.
- COWEN, R. (2005) Mission to the Outer Limits. *Sci. News* **168**, 254.
- COWEN, R. (2006) Stellar passage yields Charon’s girth. *Sci. News* **169**, no. 7, 110.
- COWEN, R. (2006) Pluto’s posse. *Sci. News* **169**, 157.
- COWEN, R. (2011) Former planet may have a tail. *Sci. News* **179**, no. 11, 8.
- CRAIG, JR., D.I. (2006) Planetary turmoil. *Sky and Tel.* **112**, no. 6, 12 (Letter to editor).

- CRAMER-DEMIERRE, J.D. (1989) Les planètes transjoviennes: Pluton, dernière planète? *Orion* **47**, no. 232, 100–104.
- CRANE, L. (2023) Planet the size of Uranus could be hiding in our solar system. *New Scientist* **259**, no. 3446, 18.
- CRAVENS, T.E. AND STROBEL, D.F. (2015) Pluto’s solar wind interaction: collisional effects. *Icarus* **246**, 303–309.
- CRAWFORD, R.T. (1938) Ernest William Brown (1866–1938). *Pub. Astron. Soc. Pacific* **50**, 257–261.
- CRELIN, R. (1994) See Pluto from your backyard. *Astronomy* **22**, no. 11, 14 (Letter to editor).
- CRESPI, D., FOGLIA, S., GALLI, G., MINUTO, S., AND SACCO, V. (2005) Pluto Observations [147 Osservatorio Astronomico di Suno. *Minor Planet Circular* 54344, 1.
- CRESPI, D., FOGLIA, S., GALLI, G., MINUTO, S., AND SACCO, V. (2005) Pluto Observations [147 Osservatorio Astronomico di Suno. *Minor Planet Circular* 54698.
- CRIDA, A. AND CHARNOZ, S. (2012) Formation of regular satellites from ancient massive rings in the solar system. *Science* **338**, no. 6111, 1196–1199.
- CRISTESCU, C. AND MILET, B. (1973) Observations of Pluto. *Stud. Cerc. Astron.* **18**, 103.
- CROCKETT, C. (2016) Possibly cloudy forecast for Pluto. *Sci. News* **190**, no. 10, 11.
- CROMMELIN, A.C.D. (1916) Publications: Memoir on a trans-Neptunian planet. *The Observatory* **39**, 135–137.
- CROMMELIN, A.C.D. (1930) ??? *Brit. Astron. Assoc. Circ.* 86.
- CROMMELIN, A.C.D. (1930) ??? *Brit. Astron. Assoc. Circ.* 88.
- CROMMELIN, A.C.D. (1930) Pluto, the Lowell planet. *Jour. Brit. Astron. Assoc.* **40**, 265–267.
- CROMMELIN, A.C.D. (1930) Pluto. *Jour. Brit. Astron. Assoc.* **41**, 116.
- CROMMELIN, A.C.D. (1930) Pluto—Harvard Announcement Card, 148 (1931 Feb. 24). In “Notes,” *Jour. Brit. Astron. Assoc.* **40**, 265.
- CROMMELIN, A.C.D. (1930) Images of Pluto on plates exposed in 1919. ??? ???, ???.
- CROMMELIN, A.C.D. (1930) Observation photographique de l’objet Lowell, 1927. Observatoire royal de Belgique à Uccle. *Mon. Not. Roy. Astron. Soc.* **91**, 705.
- CROMMELIN, A.C.D. (1930) First actual photographs of the new planet a tiny dot of light moving across the heavens. *The Illustrated London News* ???, 556–557 (April 05).
- CROMMELIN, A.C.D. (1930) Discovery of a Trans-Neptunian Planet. *Nature* **125**, 450–451.
- CROMMELIN, A.C.D. (1930) The new planet. In “Our astronomical column,” *Nature* **125**, 577.
- CROMMELIN, A.C.D. (1930) Corps céleste de l’Observatoire Lowell. *L’Astronomie* **44**, 291.
- CROMMELIN, A.C.D. (1930) The trans-Neptunian planet. *The Observatory* **53**, 121–122.
- CROMMELIN, A.C.D. (1930) Meeting of the Royal Astronomical Society. Friday, 1930 April 11. *The Observatory* **53**, 129–140.
- CROMMELIN, A.C.D. (1931) Address on the award of the Jackson–Gwilt Medal to Clyde Tombaugh. *Mon. Not. Roy. Astron. Soc.* **91**, 434–437.
- CROMMELIN, A.C.D. (1931) Early photographs showing Pluto. In “Notes and Queries,” *Jour. Roy. Astron. Soc. Canada* **25**, 133.
- CROMMELIN, A.C.D. (1931) Meeting of the Royal Astronomical Society. Friday, 1931 February 13. *The Observatory* **54**, 68–69.
- CROMMELIN, A.C.D. (1931) The discovery of Pluto. *Mon. Not. Roy. Astron. Soc.* **91**, 380–385.
- CROMMELIN, A.C.D. (1931) Examination of the perturbations produced by Pluto on Saturn and Jupiter. *Jour. Brit. Astron. Assoc.* **41**, 221–224.

- CROSWELL, K. (1980) The hunt for Planet X. *New Scientist* **128**, no. 1748, 34–37.
- CROSWELL, K. (1986) Pluto: enigma on the edge of the solar system. *Astronomy* **14**, 6–22.
- CROSWELL, K. (1986) Percival Lowell: a controversial pioneer. *Astronomy* **14**, 11.
- CROSWELL, K. (1987) A mission to Pluto. *Space World* **10**, no. 9, 22–24.
- CROSWELL, K. (1992) Nitrogen stays fixed in Pluto’s atmosphere . . . *New Scientist* **134**, no. 1826, 19.
- CROSWELL, K. (1992) Pluto’s moon is a giant snowball. *New Scientist* **136**, no. 1848, 16.
- CROSWELL, K. (1992) To the edge: missions to Pluto and Neptune. *Astronomy* **20**, no. 5, 34–41.
- CROSWELL, K. (1993) The Titan/Triton connection. *Astronomy* **21**, no. 4, 26–35.
- CROSWELL, K. (1997) *Planet quest: the epic discovery of alien solar systems*. (The Free Press, Simon & Schuster, New York, NY), 336 pp pp.
- CROSWELL, K. (2013) Wanted: new worlds beyond Pluto. *Sci. Amer.* **308**, no. 4, 25.
- CROSWELL, K. (2020) Inner Workings: Was Jupiter born beyond the current orbits of Neptune and Pluto? *Pub. Nat. Acad. Sci.* **117**, no. 29, 16716–16719.
- CRUIKSHANK, D.P., PILCHER, C.B., AND MORRISON, D. (1976) Pluto: evidence for methane frost. *Bull. Amer. Astron. Soc.* **8**, 487 (Abstract).
- CRUIKSHANK, D.P., PILCHER, C.B., AND MORRISON, D. (1976) Pluto: evidence for methane frost. *Science* **194**, 835–837.
- CRUIKSHANK, D.P., PILCHER, C.B., AND MORRISON, D. (1977) Identification of a new class of satellites in the outer solar system. *Astrophys. Jour.* **217**, 1006–1010.
- CRUIKSHANK, D.P. AND SILVAGGIO, P.M. (1980) Methane atmospheres of Triton and Pluto. *10* **5772**, (Abstract).
- CRUIKSHANK, D.P. (1980) Book Review: *Planets X and Pluto*, by W.G. Hoyt, Univ. of Arizona Press, Tucson. 302 pp. *Icarus* **44**, 223–224.
- CRUIKSHANK, D.P. AND SILVAGGIO, P.M. (1980) The surface and atmosphere of Pluto. *Icarus* **41**, 96–102.
- CRUIKSHANK, D.P. (1982) “Spectroscopy of Triton and Pluto: Current status and prospects.” In *Vibrational-rotational spectroscopy for planetary atmospheres—Vol. II.*, ed. M.J. Mumma, K. Fox, and J. Hornstein (NASA CP-2223, April, 1982), pp. 699–708.
- CRUIKSHANK, D.P., BROWN R.H., AND CLARK, R.N. (1985) “Methane ice on Triton and Pluto” In *Ices in the Solar System*, ed. J. Klinger, D. Benest, A. Dollfus, and R. Smoluchowski (D. Reidel Publishing Co., Dordrecht), pp. 817–827.
- CRUIKSHANK, D.P. AND BROWN R.H. (1986) “Satellites of Uranus and Neptune, and the Pluto–Charon system.” In *Satellites*, J.A. Burns and M.S. Matthews, eds. (Tucson: Univ. Arizona Press), pp. 836–873.
- CRUIKSHANK, D.P. (1987) Pluto, Charon, and Triton: a review of their physical parameters, atmospheres, and surfaces. *Bull. Amer. Astron. Soc.* **19**, 858 (Abstract).
- CRUIKSHANK, D.P. (1987) Research in planetary studies, and operation of the Mauna Kea Observatory. *Reports of Planetary Astronomy—1986 NASA Technical Memorandum 100776*, 22–24 (Abstract).
- CRUIKSHANK, D.P. (1988) Research in planetary astronomy and operation of the Mauna Kea Observatory. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 35–36 (Abstract).
- CRUIKSHANK, D.P. AND MORRISON, D.P. (1990) “Icy bodies of the outer solar system” In *The New Solar System (third edition)* (J.K. Beatty and A.P. Chaiken, eds. New York, Permagon Press), 195–206.
- CRUIKSHANK, D.P. (1990) Triton, Pluto, and Charon. *Adv. Space Res.* **10**, 199–207.
- CRUIKSHANK, D.P. AND KERRIDGE, J.F. (1992) “Organic material: asteroids, and planetary satellites.” In *Exobiology in solar ststem exploration* (JPL, Pasadena, CA), 159–176.

- CRUIKSHANK, D.P. AND STERN, S.A. (1993) “Spectroscopic studies of small bodies of the outer solar system, with special reference to Pluto and Charon.” Paper given at *Fifth International Conference on Laboratory Research for Planetary Atmospheres*, Boulder, CO.
- CRUIKSHANK, D.P., ROUSH, T.L., MOORE, J.M. BROWN, R.H., AND OWEN, T.C. (1993) The surfaces of Pluto and Charon. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- CRUIKSHANK, D.P., ROUSH, T.L., OWEN, T.C., GEBALLE, T.R., DE BERGH, C., SCHMITT, B., BROWN, R.H., AND BARTHOLOMEW, M.J. (1993) Ices on the surface of Triton. *Science* **261**, 742–745.
- CRUIKSHANK, D.P., ROUSH, T.L., OWEN, T.C., QUIRICO, E., AND DEBERGH, C. (1995) The surface compositions of Triton, Pluto, and Charon. *Technical Report, NASA Ames Research Center, Moffett Field, CA*.
- CRUIKSHANK, D.P. (1995) “Compositions of Pluto, Triton, and the Centaur objects.” In *Transactions of the International Astronomical Union XXIII A Reports on Astronomy*, ed. I. Appenzeller (Kluwer Press, Boston), pp. 211.
- CRUIKSHANK, D.P., ROUSH, T.L., MOORE, J.M., SYKES, M.V., OWEN, T.C., BARTHOLOMEW, M.J., BROWN, R.H., AND TRYKA, K.A. (1996) The surfaces of Pluto and Charon. *Technical Report, NASA Ames Research Center, Moffett Field, CA*.
- CRUIKSHANK, D.P., ROUSH, T.L., OWEN, T.C., QUIRICO, E., AND DEBERGH, C. (1988) “The surface compositions of Triton, Pluto, and Charon.” In *Solar system ices* (Dordrecht, Kluwer), 655.
- CRUIKSHANK, D.P., ROUSH, T.L., OWEN, T.C., QUIRICO, E., AND DEBERGH, C. (1998) The surface compositions of Triton, Pluto, and Charon. *Astrophys. and Spa. Sci. Library* **227**, 655–684.
- CRUIKSHANK, D.P. (1998) Laboratory astrophysics in solar system studies—an overview. *Earth, Moon, and Planets* **80**, 3–33.
- CRUIKSHANK, D.P. (1999) “Triton, Pluto, and Charon.” In *The new solar system, 4th edition.*, ed. J.K. Beatty, C.C. Collins, A. Chaiken (Cambridge University Press), pp. 285–296.
- CRUIKSHANK, D.P. (1999) “Solar system bodies of low albedo.” Paper given at *Bioastronomy 99: a new era in bioastronomy.*, Sixth Bioastronomy Meeting, Kohala Coast, HI, 2–6 August, 1999.
- CRUIKSHANK, D.P. (1999) Book Review: *Pluto and Charon*, by S. Alan Stern and D.J. Tholen. *Meteoritics and Planetary Sci.* **34**, no. 4, 682–683.
- CRUIKSHANK, D.P. (2005) Triton, Pluto, Centaurs, and trans-Neptunian Bodies. *Spa. Sci. Rev.* **116**, 421–439.
- CRUIKSHANK, D.P. (2009) Surfaces of Kuiper-Belt Objects and other icy bodies in the outer solar system. *Bull. Amer. Astron. Soc.* **41**, 751 (Abstract).
- CRUIKSHANK, D.P. DEBERGH, C. DOUTÉ, S., GEBALLE, T.R., OWEN, T.C., QUIRICO, E., ROUSH, T.L., SCHMITT, B. (1999) Ethane on Pluto? *Science* **285**, 1355.
- CRUIKSHANK, D.P., EMERY, J.P., STANSBERRY, J.A., AND VANCLEVE, J.E. (2004) Pluto–Charon: infrared reflectance from 3.6 to 8.0 micrometers. *Bull. Amer. Astron. Soc.* **36**, 1174 (Abstract).
- CRUIKSHANK, D.P., MASON, R.E., DALLE ORE, C.M., BERNSTEIN, M.P., QUIRICO, E., MASTRAPA, R.M., EMERY, J.P., AND OWEN, T.C. (2006) Ethane on Pluto and Triton. *Bull. Amer. Astron. Soc.* **38**, 518 (Abstract).
- CRUIKSHANK, D.P. (2006) Complex organic materials on planetary satellites and other small bodies of the solar system. *Bull. Amer. Astron. Soc.* **38**, 520 (Abstract).
- CRUIKSHANK, D.P., PINILLA-ALONSO, N., LORENZI, V., GRUNDY, W.M., LICANDRO, J., AND BINZEL, R.P. (2014) Spectroscopy of Pluto at six longitudes, 380–930 nm. *Bull. Amer. Astron. Soc.* **46**, 419.04 (Abstract).

- CRUIKSHANK, D.P., BROWN, R.H., GRUNDY, W.M., DEMEO, F.E., BUIE, M.W., BINZEL, R.P., JENNINGS, D.E., OLKIN, C.B., PARKER, J.W., REUTER, D.C., SPENCER, J.R., STERN, S.A., YOUNG, L.A., AND WEAVER, H.A. (2015) The surface compositions of Pluto and Charon. *Icarus* **246**, 82–92.
- CRUIKSHANK, D.P., GRUNDY, W.M., STERN, S.A., OLKIN, C.B., COOK, J.C., DALLE ORE, C.M., BINZEL, R.P., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., ARKER, A.H., PARKER, J.W., PROTOPAPA, S., REUTER, D.C., SINGER, K.N., SPENCER, J.R., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., AND YOUNG, L.A. (2015) Pluto: distribution of ices and coloring agents from New Horizons LEISA observations. *Bull. Amer. Astron. Soc.* **47**, 101.02 (Abstract).
- CRUIKSHANK, D.P., STERN, S.A., GRUNDY, W.M., MOORE, J.M., YOUNG, L.A., OLKIN, C.B., WEAVER, H.A., ENNICO, K., COOK, J.C., AND NEW HORIZONS COMPOSITION THEME TEAM. (2016) Pluto and Charon: surface colors and compositions — a hypothesis. *Lunar & Planetary Sci.* **47**, 1696 (Abstract).
- CRUIKSHANK, D.P., CLEMETT, S.J., GRUNDY, W.M., STERN, S.A., OLKIN, C.B., BINZEL, R.P., COOK, J.C., DALLE ORE, C.M., EARLE, A.M., SMITH-ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., PARKER, A.H., PARKER, J.W.M., PROTOPAPA, S., REUTER, D.C., SINGER, K.N., SPENCER, J.R., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., YOUNG, L.A., MATERESE, C.K., SANDFORD, S.A., IMANAKA, H., NUEVO, M., SCHMITT, B., QUIRICO, E., PHILIPPE, S., HIROI, T., AND NEW HORIZONS COMPOSITION THEME TEAM. (2016) Pluto and Charon: the non-ice surface component. *Lunar & Planetary Sci.* **47**, 1700 (Abstract).
- CRUIKSHANK, D.P., SPOHRER, S., GRUNDY, W.M., MOORE, J.M., UMURHAN, O.M., WHITE, O.L., BEYER, R.A., DALLE ORO, C.M., STERN, S.A., YOUNG, L., WEAVER, H.A., OLKIN, C., AND ENNICO, K. (2017) Pluto: fluidized transport of tholins by heating of the subsurface. *Bull. Amer. Astron. Soc.* **49**, 102.06 (Abstract).
- CRUIKSHANK, D.P. AND SHEEHAN, W. (2018) *Discovering Pluto: exploration at the edge of the solar system*. (University of Arizona Press, Tucson, AZ), 504 pp.
- CRUIKSHANK, D., UMURHAN, O.M., MOORE, J.M., GRUNDY, W., MCKINNON, W.B., DALLEORE, C.M., SCHMITT, B., BEYER, R.A., RUNYON, K.D., NIMMO, F., HOWARD, A.D., STERN, S.A., KEANE, J.T., CARTWRIGHT, R., WHITE, O.L., SPENCER, J., BINZEL, R.P., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND LISSE, C.M. (2018) Recent cryovolcanism on Pluto. *Bull. Amer. Astron. Soc.* **50**, 506.05 (Abstract).
- CRUIKSHANK, D., UMURHAN, O.M., MOORE, J.M., GRUNDY, W., MCKINNON, W.B., DALLEORE, C.M., SCHMITT, B., BEYER, R.A., RUNYON, K.D., NIMMO, F., HOWARD, A.D., STERN, S.A., KEANE, J.T., CARTWRIGHT, R., WHITE, O.L., SPENCER, J., BINZEL, R.P., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND LISSE, C.M. (2019) Recent cryovolcanism in Virgil Fossae on Pluto. *Icarus* **330**, 155–168.
- CRUIKSHANK, D.P., UMURHAN, O.M., BEYER, R.A., SCHMITT, B., KEANE, J.T., RUNYON, K.D., ATRI, D., WHITE, O.L., MATSUYAMA, I., MOORE, J.M., SANDFORD, S.A., SINGER, K.N., GRUNDY, W.M., DALLE ORE, C.M., COOK, J.C., BERTRAND, T., STERN, S.A., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., LISSE, C.M., PENDLETON, Y.J., BINZEL, R.P., EARLE, A.M., ROBBINS, S.J., GLADSTONE, G.R., SCHENK, P.M., CARTWRIGHT, R.J., MCKINNON, W.B., ENNICO, K., AND SCIPIONI, F. (2019) Cryovolcanism on Pluto. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7020 (Abstract).
- CRUIKSHANK, D.P., MATERESE, C.K., PENDLETON, Y.J., BOSTON, P.J., GRUNDY, W.M., SCHMITT, B., LISSE, C.M., RUNYON, K.D., KEANE, J.T., BEYER, R.A., SUMMERS, M.E., SCIPIONI, F., STERN, S.A., DALLE ORE, C.M., OLKIN, C.B., YOUNG, L.A., ENNICO, K., WEAVER, H.A., AND BRAY, V.J. (2019) Prebiotic chemistry of Pluto. *Astrobiology* **19**, no. 7, 831–848.

- CRUIKSHANK, D.P., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., ENNICO, K., AND BAGENAL, F. (2019) Fifty years of exploring Pluto: from telescopes to the New Horizons mission. *Lunar & Planetary Sci.* **50**, 2057 (Abstract).
- CRUIKSHANK, D.P., GRUNDY, W.M., JENNINGS, D.E., OLKIN, C.B., PROTOPAPA, S., REUTER, D.C., SCHMITT, B., AND STERN, S.A. (2019) “Spectroscopy of Pluto and its Satellites.” In *Remote Compositional Analysis: Techniques for Understanding Spectroscopy, Mineralogy, and Geochemistry of Planetary Surfaces* (eds. J.L. Bishop, J.F. Bell, III and J.E. Moersch. Cambridge Planetary Science Book Series. Cambridge, UK: Cambridge University Press), 442–452.
- CRUIKSHANK, D.P., UMURHAN, O.M., BEYER, R.A., SCHMITT, B., KEANE, J.T., RUNYON, K.D., ATRI, D., WHITE, O.L., MATSUYAMA, I., MOORE, J.M., MCKINNON, W.B., SANDFORD, SCOTT A., SINGER, KELSIE N., GRUNDY, WILLIAM M., DALLE ORE, CRISTINA M., COOK, JASON C., BERTRAND, T., STERN, S.A., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., LISSE, C.M., BINZEL, R.P., EARLE, A.M., ROBBINS, S.J., GLADSTONE, G.R., CARTWRIGHT, R.J., AND ENNICO, K. (2019) Recent cryovolcanism in Virgil Fossae on Pluto. *Icarus* **330**, 155–168.
- CRUIKSHANK, D.P., PENDLETON, Y.J., AND GRUNDY, W.M. (2020) Organic components of small bodies in the outer solar system: some results of the New Horizons mission. *Life* **10**, no. 8, 126–139.
- CRUIKSHANK, D.P., DALLE ORE, C.M., SCIPIONI, F., BEYER, R.A., WHITE, O.L., MOORE, J.M., GRUNDY, W.M., SCHMITT, B., RUNYON, K.D., KEANE, J.T., ROBBINS, S.J., STERN, S.A., BERTRAND, T., BEDDINGFIELD, C.B., OLKIN, C.B., YOUNG, L.A., WEAVER, H.A., AND ENNICO, K. (2021) Cryovolcanic flooding in Viking Terra on Pluto. *Icarus* **356**, 113786.
- CRUIKSHANK, D.P., DALLE ORE, C.M., SCIPIONI, F., WHITE, O.L., SCHMITT, B., GRUNDY, W.M., SINGER, K.N., AND THE NEW HORIZONS COMPOSITION TEAM. (2021) Pluto’s cryovolcanism and the ammonia connection. *Bull. Amer. Astron. Soc.* **53**, 114.09 (Abstract).
- CUK, M., DONES, H.C., NESVORNÝ, D., AND WALSH, K.J. (2016) Did the Kozai resonance help form Pluto’s small moons? *Bull. Amer. Astron. Soc.* **47**, 102.04 (Abstract).
- CUK, M., HAMILTON, D.P., AND STEWART-MUKHOPADHYAY, S.T. (2017) Collisional cascades following Triton’s capture. *Bull. Amer. Astron. Soc.* **49**, 419.01 (Abstract).
- CULL, S. (2006) Pluto’s new moons named. *Sky and Tel.* **112**, no. 9, 19.
- CUMMINGS, A.C. AND MEWALDT, R.A. (1993) A small energetic particle instrument for the cruise phase of the Pluto Fast Flyby mission. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- CUNNINGHAM, N.J., SCHINDHELM, E.R., COOK, J.C., KAMMER, J., STERN, S.A., AND TRAFTON, L.M. (2016) HST–STIS Observations of Pluto and Charon contemporaneous with the New Horizons encounter. *Bull. Amer. Astron. Soc.* **48**, no. 7, 146 (Abstract).
- CUNNINGHAM, C.J. (2018) Book Review: *Discovering Pluto: Exploration at the Edge of the Solar System*. by D.P. Cruikshank and W. Sheehan, Tucson, University of Arizona Press. 504 pp. *Jour. of Astronomical History and Heritage* **21**, no. 2/3, 240–241.
- CURRY, P.A. (1930) Object Lowell Observatory. *IAU Circular No.* 287.
- CUSACCI, C. (1978) Plutone ha un satellite? *Orione* **1**, 96.
- DAGANI, R. (1981) The planets: chemistry in exotic places. *Chemical and Engineering News* **59**, no. 32, 25–36.
- DAHL, M.D. AND HILEMAN, J.I. (2006) The Year in Review: Aerospace sciences: Astrodynamics. *Aerospace America* **44**, no. 12, 5.
- DAI, W.-S. AND HU, Z.-W. (1979) A few cosmogonical conclusions drawn from the discovery of Pluto’s satellite. *Phys. Abstr.* **82**, #84744 (Abstract).
- DAI, W.-S. AND HU, Z.-W. (1979) A few cosmogonical conclusions drawn from the discovery of Pluto’s satellite. *Kexue Tongbao* **24**, 215–216.

- DALLE ORE, C., CRUIKSHANK, D.P., GRUNDY, W.M., ENNICO, K., OLKIN, C.B., STERN, S.A., YOUNG, L.A., AND WEAVER, H.A. (2015) Crystalline and amorphous H₂O on Charon. *Bull. Amer. Astron. Soc.* **47**, 210.27 (Abstract).
- DALLE ORE, C.M., COOK, J.C., CRUIKSHANK, D.P., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., PROTOPAPA, S., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS COMPOSITION TEAM. (2016) Charon's near IR ice signature as seen by New Horizons. *Lunar & Planetary Sci.* **47**, 2122 (Abstract).
- DALLE ORE, C.M., COOK, J.C., CRUIKSHANK, D.P., PROTOPAPA, S., GRUNDY, W.M., OLKIN, C.B., ENNICO, K., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SURFACE COMPOSITION THEME TEAM. (2016) Charon's, Hydra's, and Nix's near IR spectra as seen by New Horizons. *Bull. Amer. Astron. Soc.* **48**, no. 7, 162 (Abstract).
- DALLE ORE, C.M., CRUIKSHANK, D.P., GRUNDY, W.M., PROTOPAPA, S., VERBISCHER, A.J., ENNICO, K., OLKIN, C.B., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SURFACE COMPOSITION TEAM. (2017) Analysis of Pluto's moons composition as seen by New Horizons. *Asteroids, Comets, and Meteorites 2017*, 134–135 (Abstract).
- DALLE ORE, C.M., PROTOPAPA, S., CRUIKSHANK, D.P., GRUNDY, W.M., STERN, S.A., ENNICO, K., OLKIN, C., REUTER, D., YOUNG, L., AND WEAVER, H.A. (2017) Pluto's non-icy component: a close-in analysis. *Bull. Amer. Astron. Soc.* **49**, 102.07 (Abstract).
- DALLE ORE, C.M., CRUIKSHANK, D., PROTOPAPA, S., SCIPIONI, F., COOK, J., GRUNDY, W., STERN, A., OLKIN, C.B., YOUNG, L.A., WEAVER, H.A., AND ENNICO, K. (2018) Ammonia on Pluto: its detection and implications. *Bull. Amer. Astron. Soc.* **50**, 221.07 (Abstract).
- DALLE ORE, C.M., PROTOPAPA, S., COOK, J.C., GRUNDY, W.M., CRUIKSHANK, D.P., VERBISCHER, A.J., ENNICO, K., OLKIN, C.B., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2018) Ices on Charon: distribution of H₂O and NH₃ from New Horizons LEISA observations. *Icarus* **300**, no. 1, 21–32.
- DALLE ORE, C.M., BARUCCI, M.A., FORNASIER, S., CRUIKSHANK, D.P., GRUNDY, W.M., AND PROTOPAPA, S. (2019) Pluto data before and after New Horizons: the takeaway for future observations. *Pluto System After New Horizons*, LPI Contribution No. 2133, Larchmont, MD, 2019 July 14–18, 7040 (Abstract).
- DALLE ORE, C.M., CRUIKSHANK, D.P., PROTOPAPA, S., GRUNDY, W.M., OLKIN, C.B., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS COMPOSITION TEAM. (2019) Pluto dark refractory material: a close look at composition and origin. *Pluto System After New Horizons*, LPI Contribution No. 2133, Larchmont, MD, 2019 July 14–18, 7073 (Abstract).
- DALLE ORE, C.M., CRUIKSHANK, D.P., PROTOPAPA, S., SCIPIONI, F., MCKINNON, W.B., COOK, J.C., GRUNDY, W.M., SCHMITT, B., STERN, S.A., MOORE, J.M., PARKER, A.H., SINGER, K.N., UMURHAN, O.M., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND THE NEW HORIZONS SCIENCE TEAM. (2019) Detection of ammonia on Pluto's surface in a region of geologically recent tectonism. *Science Advances* **5**, no. 5, eaav5731.
- DALLE ORE, C., CRUIKSHANK, D.P., GRUNDY, W.M., COOK, J.C., ENNICO SMITH, K., OLKIN, C., STERN, A., WEAVER, JR., H.A., AND YOUNG, L.A. (2019) Pluto refractory material. *AGU Fall Meeting Abstracts* **P43C**, 3486 (Abstract).
- DALLE ORE, C., CRUIKSHANK, D.P., PROTOPAPA, S., GRUNDY, W.M., ENNICO, K., OLKIN, C.B., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2019) Pluto dark refractory material: a close look at composition and origin. *ESPC–DPS Joint Meeting* **13**, 207D (Abstract).
- DALLEY, G. (1882) Note sur les planètes extrêmes de Notre système solaire. *Revue Scientifique* **4**, 80–85.
- DALLEY, G. (1901) Contribution à la recherche des planètes situées au delà de l'orbite de Neptune. *L'Astronomie* **15**, 266–271.
- DANBY, J.M.A. (1971) Does an observed sequence of numbers follow a simple rule? (Another look at Bode's Law): Comment. *Jour. Amer. Statistical Assoc.* **66**, no. 335, 565–566.

- DAROOKA, D.K. AND VICENTE, F.A. (1995) Better, faster, cheaper radioisotope thermoelectric generator for the Pluto fast flyby mission. *AIP Conference Proceedings* **324**, 479–484.
- DARTOIS, E., BOUZIT, M., AND SCHMITT, B. (2012) Clathrate hydrates: FTIR spectroscopy for astrophysical remote detection. *Proceedings of the European Conference on Laboratory Astrophysics. EAS Publication Series* **58**, 219–224.
- DASCH, P. AND KROSS, J. (1997) Farewell to Clyde Tombaugh. *Ad Astra* **9**, no. 2, 14.
- DAUVILLIER, A. (1942) Sur l’origine du système solaire. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **214**, 786–789.
- DAUVILLIER, A. (1951) Sur la nature de Pluton et Triton. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **233**, 901–903.
- DAVID, L. (1992) Planet X for planet nine. *Ad Astra* **4**, no. 7, 10.
- DAVID, L. (2006) New Horizons: journey to a far frontier. *Aerospace America* **44**, no. 11, 30–35.
- DAVID, L. (2010) Hubble at 20. *Aerospace America* **48**, no. 4, 30–37.
- DAVIDSON, M. (1930) Perturbaciones seculares de Plutón. “In Notes,” *The Observatory* **65**, 278.
- DAVIES, A. (1990) Review: Naming Pluto (Jimenez) (DVD). *Jour. Brit. Astron. Assoc.* **119**, 362.
- DAVIES, E.J. AND STEWART, S.T. (2016) Beating up Pluto: modeling large impacts with strength. *Lunar & Planetary Sci.* **47**, 2938 (Abstract).
- DAVIES, J.K. (1981) A brief history of the Voyager project. I. the end of the beginning *Spaceflight* **23**, 34–41.
- DAVIES, J.K. (2001) *Beyond Pluto: exploring the limits of the solar system*. (Cambridge University Press, Cambridge, England), 246 pp.
- DAVIS, A.B. AND SCHEERES, D. (2018) Full two-body problem mass parameter observability explored through doubly synchronous systems. *Bull. Amer. Astron. Soc.* **49**, 103.07 (Abstract).
- DAVIS, A. AND SCHEERES, D.J. (2018) Dynamical applications of the full Two-Body problem. *Bull. Amer. Astron. Soc.* **50**, 217.01 (Abstract).
- DAVIS, D.R., MARZARI, F., WEIDENSCHILLING, S.J., AND FARINELLA, P. (1996) Accretion in the outer solar system: on the formation of Neptune and Edgeworth–Kuiper objects. *Bull. Amer. Astron. Soc.* **28**, 1082 (Abstract).
- DAVIS, J.W. AND MILLER, J.P. (2008) Light curves of 2005 FY9: Pluto-sized trans-Neptunian object. *Lunar & Planetary Sci.* **39**, 1091 (Abstract).
- DAWSON, S. (2006) “New Horizons risk communication strategy, planning, implementation and lessons learned.” Paper given at *4th International Energy Conversion Engineering Conference*, San Diego, CA. AIAA paper #2006-4166.
- DAWSON, S. (2006) “New Horizons risk communication strategy, planning, implementation and lessons learned.” Paper given at *4th International Energy Conversion Engineering Conference*, San Diego, CA. AIAA paper #2006-4166.
- DAY, C. (2016) Two kinds of dwarf planets. In “Physics Update.” *Physics Today* **69**, no. 8, 18.
- DE A. VASCONCELOS, F., PILLING, S., ROCHA, W.R.M., ROTHARD, H., AND BODUCH, P. (2017) Energetic processing of N₂:CH₄ ices employing X-rays and swift ions: implications for icy bodies in the outer solar system. *Astrophys. Jour.* **850**, no. 2, 174.
- DÉBARBAT, S. (1997) “Discoveries in the solar system.” In *IAU Colloquium 165: dynamics and astrometry of natural and artificial celestial bodies* (Boston, Kluwer), 133–140.
- DE BARROS, A.L.F., ANDRADE, D.P.P., DA SILVEIRA, E.F., ALCANTARA, K.F., BODUCH, P., AND ROTHARD, H. (2018) Chemical reactions in the nitrogen–acetone ice induced by cosmic ray analogues: relevance for the solar system. *Mon. Not. Roy. Astron. Soc.* **474**, no. 2, 1469–1481.

- DEBBAN, T.J., MCCONAGHY, T.T, AND LONGUSKI, J.M. (2002) “Design and optimization of low-thrust gravity-assist trajectories to selected planets.” Paper given at *American Institute of Aeronautics and Astronautics Specialists Conference*, Monterrey, CA, 5–8 August 2002. AIAA paper #2002-4729.
- DEBEHOGNE, H., MACHADO, L.E., CALDEIRA, J.F., NETTO, E.R., AND VIEIRA, G.G. (1981) Positions of Jupiter, Galilean satellites and Pluto obtained in May 1980 with the GPO of the ESO, La Silla. *Astron. Astrophys.* **103**, 210 (Abstract).
- DEBEHOGNE, H. (1965) Observations photographiques de Pluton. *Bull. Astronomique de l’Observatoire Royal de Belgique a Uccle* **6**, 7.
- DEBEHOGNE, H. (1981) Book Review: *Planets X and Pluto*, by A.J. Whyte. Toronto, Pergamon Press. 155 pp. *Ciel et Terre* **97**, 340.
- DEBEHOGNE, H., MACHADO, L.E., CALDEIRA, J.F., NETTO, E.R., AND VIEIRA, G.G. (1981) Positions of Jupiter, Galilean satellites and Pluto obtained in May 1980 with the GPO of the ESO, La Silla. *Astron. Astrophys. Supp.* **46**, 131–134.
- DEBEHOGNE, H., AND DEFREITAS MOURÃO, R.R. (1980) Pluton peut-il encore faire partie des grosses planètes? *Ciel et Terre* **96**, 365–369.
- DEBEHOGNE, H., AND DEFREITAS MOURÃO, R.R. (1988) The positions of Pluto obtained during the February 1985 observations carried out at the European Southern Observatory (ESO), La Silla. *Astron. Jour.* **96**, 1479–1481.
- DEBEHOGNE, H., AND DEFREITAS MOURÃO, R.R. (1988) Astrometric positions of Pluto obtained in September 1990 with the GPO, ESO, La Silla. *Bull. Astron. Obs. Roy. de Belgique* **10**, no. 4, 181–184.
- DEBERGH, C. (1987) “High quality ground-based planetary observations” In *Proceedings of the twenty-seventh Liège International Astrophysical colloquium* (Liège, Belgium), 279–310.
- DEBERGH, C. (1993) Breakthroughs in groundbased infrared spectroscopy of planets. *Bull. Amer. Astron. Soc.* **25**, 1063 (Abstract).
- DEBERGH, C. AND SCHMITT, B. (1994) Pluton, ses glaces, son atmosphere... *Recherche* **25**, 442–443.
- DEBOY, C.C. HASKINS, C.B., BROWN, T.A., SCHULZE, R.C., BERNCIK, M.A., JENSEN J.R., MILLARD, W., DUVEN, D., AND HILL, S. (2004) The RF telecommunications system for the New Horizons mission to Pluto . *Proceedings of the 2004 IEEE Aerospace Conference* **3**, 1463–1476.
- DEBOY, C.C., HASKINS, C., DUVEN, D., SCHULZE, R., JENSEN, J.R., BERNACIK, M., AND MILLARD, W. (2005) The New Horizons mission to Pluto: advances in telecommunications system design. *Acta Astronautica* **57**, 540–553.
- DE CAMAS, E. (1931) Communications diverses. *L’Astronomie* **45**, 150.
- DECOLIBUS, R.A., CHANOVER, N.J., AND CARTWRIGHT, R.J. (2023) Are NH₃ and CO₂ ice present on Miranda? *Planetary Sci. Jour.* **4**, no. **10**, 191.
- DEDERA, D. (1994) Clyde Tombaugh and Planet X: a talented amateur’s stellar performance. *Arizona Highways* **70**, no. 5, 51.
- DE DIOS CUBILLAS, A., MUÑOZ IGLESIAS, V., AND PRIETO BALLESTEROS, O. (2022) “Abiotic clathrite synthesis from CO₂-clathrate under ocean world conditions.” Paper given at *16th Europlanet Science Congress 2022, 18–23 September 2022*, Palacio de Congresos de Granada, Spain. EPSC2022-544.
- DEERWESTER, J. (1966) “Jupiter swingby missions to the outer planets.” Paper given at *3rd and 4th Aerospace Sciences Meeting*, New York, NY.
- DEERWESTER, J.M. (1966) Jupiter swingby missions to the outer planets. *Jour. Spacecraft and Rockets* **3**, no. 101564–1567.
- DEFAIT, J.-P. (1993) La NASA vise Pluton. *Ciel et Espace* **280**, 24–28 (May 1993).
- DE ELÍA, G.C., BRUNINI, A., AND DI SISTO, R.P. (2008) Collisional and dynamical evolution of Plutinos. *Astron. Astrophys.* **490**, 835–842.

- DE ELÍA, G.C., DI SISTO, R.P., AND BRUNINI, A. (2010) “Impactor flux on the Pluto–Charon system.” In *Proceedings of the International Astronomical Union, IAU Symposium No. 263, 2009*, ed. J.A. Fernández, D. Lazzaro, D. Prialnik, and R. Schulz (98–101), pp. .
- DE ELÍA, G.C., DI SISTO, R.P., AND BRUNINI, A. (2010) Impactor flux and cratering on the Pluto–Charon system. *Astron. Astrophys.* **521**, A23.
- DEFREITAS MOURÃO, R.R., NUNES, M.R., AND TAVARES, O.C. (1984) The positions of Pluto obtained during the period May–June 1980: observations carried out at the European Southern Observatory (ESO), La Silla. *Astron. Jour.* **89**, 1262–1263.
- DEGRASSE TYSON, N. (1999) Pluto’s honor. *Natural History* **108**, no. 1, 82.
- DEGRASSE TYSON, N. (2007) Annual Report to our members. *Planetary Report* **27**, no. 2, 16–17.
- DEGRASSE TYSON, N. (2007) Pluto’s requiem. *Spark, the AAS Education Newsletter* **4**, 8–10.
- DEGRASSE TYSON, N. (2009) *The Pluto files: the rise and fall of America’s favorite planet.* (W.W. Norton, New York, NY), 194 pp.
- DEININGER, W.D., ATKINSON, B., BALTRUM, R., BANK, T., DISSLY, R.W., JONAITIS, J., AND MITCHELL, S. (2009) “Ball Aerospace’s deep space mission architecture and capabilities.” Paper given at *Proceedings of the Aerospace Conference, 2009 IEEE. 07–14 March 2009. Big Sky, MT, 1–18.*, .
- DEJAIFFE, R. (1982) Au-delà de Saturne. *Rev. Quest. Sci.* **153**, no. 1, 11–30.
- DEJAIFFE, R. (2006) Pluton: planète ou pas? *Ciel et Terre* **122**, no. 5, 143–150.
- DE LA BAUME PLUVINEL, A. (1916) Le progrès récents de l’astronomie. *L’Astronomie* **30**, 227–228.
- DE LA FUENTE MARCOS, C. AND DE LA FUENTE MARCOS, R. (2012) Plutino (15810) 1994 JR₁, an accidental quasi-satellite of Pluto. *Mon. Not. Roy. Astron. Soc. Lett.* **427**, L85–L89.
- DE LA FUENTE MARCOS, C. AND DE LA FUENTE MARCOS, R. (2014) Extreme trans-Neptunian objects and the Kozai mechanism: signalling the presence of trans-Plutonian planets. *Mon. Not. Roy. Astron. Soc. Lett.* **443**, L59–L63.
- DE LA FUENTE MARCOS, C. AND DE LA FUENTE MARCOS, R. (2016) Finding Planet Nine: apsidal anti-alignment Monte Carlo results. *Mon. Not. Roy. Astron. Soc.* **462**, no. 2, 1972–1977.
- DE LA FUENTE MARCOS, C. AND DE LA FUENTE MARCOS, R. (2016) The analemma criterion: accidental quasi-satellites are indeed true quasi-satellites. *Mon. Not. Roy. Astron. Soc.* **462**, no. 3, 3344–3349.
- DE LA FUENTE MARCOS, C. AND DE LA FUENTE MARCOS, R. (2016) Twisted extreme trans-Neptunian orbital parameter space: statistically significant asymmetries confirmed. *Mon. Not. Roy. Astron. Soc. Lett.* **512**, no. 1, L6–L10.
- DELAMERE, P.A. AND BAGENAL, F. (2003) Plasma coupling in the ion kinetic limit: a comparison of Io, Pluto and comet Borrelly. *Bull. Amer. Astron. Soc.* **35**, 994 (Abstract).
- DELAMERE, P.A. (2009) Hybrid code simulations of the solar wind interaction with Pluto. *Jour. Geophys. Res.* **114**, A03320.
- DELAMERE, P.A. AND BAGENAL, F. (2004) A comparison of the plasma interaction at Io, Pluto and comet Borrelly. *AGU Spring Meeting Abstracts SM51B*, 02 (Abstract).
- DELAMERE, P.A. AND BAGENAL, F. (2004) Pluto’s kinetic interaction with the solar wind. *Geophys. Res. Letters* **31**, L04807.
- DELAMERE, P.A. AND BAGENAL, F. (2006) The plasma interaction between Pluto’s escaping atmosphere and the solar wind. *AGU Fall Meeting SM23A*, 0306.
- DEL POPOLO, A., SPEDICATO, E., AND GAMBERA, M. (1999) Kuiper Belt evolution due to dynamical friction. *Astron. Astrophys.* **350**, 685–693.
- DEL POPOLO, A., SPEDICATO, E., AND GAMBERA, M. (1999) Kuiper Belt evolution due to dynamical friction. *Bull. Amer. Astron. Soc.* **31**, ??? (Abstract).

- DELPORTE, E. AND AREND, S. (1934) Observations photographiques de petites plànetes et de Pluton. *Bull. Astronomique de l'Observatoire Royal de Belgique a Uccle* **1**, 293–296.
- DELPORTE, E., AREND, S., AND RIGAUX, F. (1944) Observations photographiques de petites plànetes et de comètes. *Bull. Astronomique de l'Observatoire Royal de Belgique a Uccle* **3**, 242–244.
- DELPORTE, E., AREND, S., AND RIGAUX, F. (1948) Observations photographiques de petites plànetes de comètes et de Pluton. *Bull. Astronomique de l'Observatoire Royal de Belgique a Uccle* **4**, 55–58.
- DELSANTI, A., MERLIN, F., GUILBERT-LEPOUTRE, A., BAUER, J., YANG, B., AND MEECH, K.J. (2010) Methane, ammonia, and their irradiation products at the surface of an intermediate-size KBO? A portrait of Plutino (90482) Orcus. *Astron. Astrophys.* **520**, A40.
- DEMEO, F.E., DUMAS, C., DE BERGH, C.R., PROTOPAPA, S., CRUIKSHANK, D.P., GEBALLE, T.R., ALVAREZ-CANDAL, A., MERLIN, F., AND BARUCCI, M.A. (2010) A search for ethane on Pluto and Triton. *Bull. Amer. Astron. Soc.* **41**, 6.04 (Abstract).
- DEMEO, F.E., DUMAS, C., DE BERGH, C.R., PROTOPAPA, S., CRUIKSHANK, D.P., GEBALLE, T.R., ALVAREZ-CANDAL, A., MERLIN, F., AND BARUCCI, M.A. (2010) A search for ethane on Pluto and Triton. *Icarus* **208**, 412–424.
- DEMEO, F.E., DUMAS, C., COOK, J.C., CARRY, B., MERLIN, F., VERBISER, A.J., AND BINZEL, R.P. (2015) Spectral variability of Charon's 2.21- μm feature. *Icarus* **246**, 213–219.
- DEMETRESCU, G. (1932) Positions de Pluton obtenues à l'Equatorial photographique (38 cm) de la l'Observatoire de Bucarest. *Jour. des Observateurs* **15**, 109.
- DEN HOND, B. (2021) A field guide to the magnetic solar system. *Eos* **102**, no. 1, 38–41.
- DENIS, C. (1978) Découverte possible d'un satellite de Pluton. *Bull. Soc. Astron. Liège* **40**, 196.
- DENTON, C.A. AND JOHNSON, B.C. (2019) Formation of the Sputnik Planitia basin: moving towards refined constraints on ocean thickness. *Large Meteorite Impacts and Planetary Evolution VI, proceedings of the conference held September 30–October 3, 2019 in Brasília, Brazil*. **LPI Contribution No. 2136**, 5104.
- DENTON, C.A., JOHNSON, B.C., FREED, A.M., AND MELOSH, H.J. (2020) Seismology on Pluto?! Antipodal terrains produced by Sputnik Planitia-forming impact. *Lunar & Planetary Sci.* **51**, 1220.pdf (Abstract).
- DENTON, C.A., JOHNSON, B.C., WAKITA, S., FREED, A.M., MELOSH, H.J., AND STERN, S.A. (2021) Antipodal terrains produced by Sputnik Planitia-forming impact imply Pluto has a thick ocean and hydrated core. *Lunar & Planetary Sci.* **52**, 1078 (Abstract).
- DEPATER, I. (1998) Book Review: *Pluto and Charon: ice worlds on the ragged edge of the solar system*, by S.A. Stern and J. Mitton, John Wiley and Sons, New York, NY. 232 pp. *Physics Today* **51**, no. 11, 62, 64.
- DERMOTT, S.F. (1978) Pluto, Herculina, Mercury, and Venus: their real and imaginary satellites. *Bull. Amer. Astron. Soc.* **10**, 586 (Abstract).
- DESANCTIS, G. AND MASSONE, G. (1986) Faint star catalog for accurate positions of Pluto. *Bull. Amer. Astron. Soc.* **18**, 822 (Abstract).
- DE SANTANA, T., HAMILTON, D., AND WINTER, O.C. (2018) The Pluto System story told by resonances. *Bull. Amer. Astron. Soc.* **50**, 221.08 (Abstract).
- DESCAMPS, P. (2004) Orbit of a visual binary system. *Bull. Amer. Astron. Soc.* **36**, 853 (Abstract).
- DESCAMPS, P. (2005) Orbit of an astrometric binary system. *Cel. Mech. & Dyn. Astron.* **92**, 381–402 (Abstract).
- DESCH, S.J., COOK, J.C., HAWLEY, W., AND DOGETT, T.C. (2007) Cryovolcanism on Charon and other Kuiper Belt Objects. *Lunar & Planetary Sci.* **38**, 1901 (Abstract).
- DESCH, S.J., COOK, J.C., DOGETT, T.C., AND PORTER, S.B. (2009) Thermal evolution of Kuiper belt objects, with implications for cryovolcanism. *Icarus* **202**, 694–714 (Abstract).

- DESCH, S.J. AND NEVEU, M. (2013) Charon cryovolcanism and Plutonian plutonics. *AGU Fall Meeting Abstracts* **P51B**, 1774 (Abstract).
- DESCH, S.J. (2014) Formation of Pluto and Charon from two partially differentiated impactors. *Lunar & Planetary Sci.* **45**, 1135 (Abstract).
- DESCH, S.J. (2015) Density of Charon formed from a disk generated by the impact of partially differentiated bodies. *Icarus* **246**, 37–47.
- DESCH, S. AND NEVEU, M. (2015) Charon quandries. *Bull. Amer. Astron. Soc.* **47**, 210.28 (Abstract).
- DESCH, S.J. AND NEVEU, M. (2016) Differentiation and cryovolcanism in the Pluto–Charon system. *Lunar & Planetary Sci.* **47**, 1647 (Abstract).
- DESCH, S.J. AND NEVEU, M. (2017) Differentiation and cryovolcanism in the Pluto–Charon system: a view before and after New Horizons. *Icarus* **287**, 175–186.
- DESCH, S. AND JACKSON, A. (2022) 1I/‘Oumuamua: A sample of an exo-Pluto, and the nearest exoplanet. *Bull. Amer. Astron. Soc.* **54**, no. 5, 2022n5i102p08.
- DESCHAMPS, F. (2021) Stagnant lid convection with temperature-dependent thermal conductivity and the thermal evolution of icy worlds. *Geophys. Jour. International* **224**, no. 3, 1870–1889.
- DESLANDRES, H. (1909) Sur le progrès de l’astronomie. *L’Astronomie* **23**, 270–275.
- DESMARS, J., MEZA, E., SICARDY, B., ASSAFIN, M., CAMARGO, J.I.B., BRAGA-RIBAS, F., BENEDETTI-ROSSI, G., DIAS-OLIVEIRA, A., MORGADO, B., GOMES-JUNIOR, A.R., VIEIRA-MARTINS, R., BEHREND, R., ORTIZ, J. LUIS, DUFFARD, R., MORALES, N., AND SANTOS SANZ, P. (2019) Pluto’s ephemeris from ground-based stellar occultations (1988–2016). *Astron. Astrophys.* **625**, A43.
- DESMARS, J., MEZA, E., SICARDY, B., ASSAFIN, M., CAMARGO, J.I.B., BRAGA-RIBAS, F., BENEDETTI-ROSSI, G., OLIVEIRA, A., MORGADO, B., GOMES, A.R., VIEIRA-MARTINS, R., BEHREND, R., ORTIZ, J.L., DUFFARD, R., MORALES, N., AND SANTOS SANZ, P. (2019) Pluto’s ephemeris from stellar occultations. *ESPC–DPS Joint Meeting* **13**, 1468D (Abstract).
- DESSLER, A.J. AND RUSSELL, C.T. (1980) From the ridiculous to the sublime: the pending disappearance of Pluto. *Eos* **61**, 691.
- DEVYATKIN, A.V., GORSHANOV, D.L., KROUPRIANOV, V.V., VERESHCHAGINA, I.A., BEKHTEVA, A.S., AND IBRAGIMOV, F.M. (2009) Astrometric and photometric observations of solar system bodies with Pulkovo Observatory’s automatic mirror astrograph ZA-320M. *Spa. Sci. Rev.* **43**, no. 3, 229–239.
- DHILLON, V.S., MARSH, T.R., STEVENSON, M.J., ATKINSON, D.C., KERRY, P., PEACOCKE, P.T., VICK, A.J.A., BEARD, S.M., IVES, D.J., LUNNEY, D.W., MCLAY, S.A, TIERNY, C.J., KELLY, J., LITTLEFAIR, S.P., NICHOLSON, R., PASHLEY, R., HARLAFTIS, E.T., AND O’BRIEN, K. (2007) ULTRACAM: an ultrafast, triple-beam CCD camera for high-speed astrophysics. *Mon. Not. Roy. Astron. Soc.* **378**, 825–840.
- DHINGRA, R.D., BURATTI, B.J., AND SEIGNOVERT, B.S. (2021) Europa Clipper preparatory photometry to constrain surface properties. *Lunar & Planetary Sci.* **52**, 2257 (Abstract).
- DIAS-OLIVEIRA, A., SICARDY, B., LELLOUCH, E., VIEIRA-MARTINS, R., ASSAFIN, M., CAMARGO, J.I.B., BRAGA-RIBAS, F., GOMES-JÚNIOR, A.R., BENEDETTI-ROSSI, G., COLAS, F., DECOCK, A., DORESSOUNDIRAM, A., DUMAS, C., EMILIO, M., FABREGA POLLERI, J., GIL-HUTTON, R., GILLON, M., GIRARD, J., HAU, G., IVANOV, V. D., JEHIN, E., LECACHEUX, J., LEIVA, R., LOPEZ-SISTERNA, C., MANCINI, L., MAURY, A., MEZA, E., MORALES, N., NAGY, L., OPITOM, C., ORTIZ, J.L., POLLOCK, J., ROQUES, F., SNODGRASS, C., SOULIER, J.F., THIROUIN, A., VANZI, L., WIDEMANN, T., REICHAERT, D.E., LACLUYZE, A.P., HAISLIP, J.B., IVARSEN, K.M., DOMINIK, M., JØRGENSEN, U., AND SKOTTFELT, J. (Pluto’s atmosphere from stellar occultations in 2012 and 2013.) 2015 *Astrophys. Jour.* **811**, no. 1, 53.

- DIAS-OLIVEIRA, A., SICARDY, B., LELLOUCH, E., VIEIRA-MARINS, R., ASSAFIN, M., CAMARGO, J.I.B., BRAGA-RIBAS, F., GOMES-JÚNIOR, A., BENDETTI-ROSSI, G., COLAS, F., DECOCK, A., DORESSOUNDIRAM, A., DUMAS, C., EMILIO, M., POLLERI, J.F., GIL-HUTTON, R. GILLON, M., GIRARD, J., HAU, G., IVANOV, V. JEHN, E., LECACHEUX, J., LEIVA, R., LOPEZ-SISTERNA, C., MANCINI, L., MANFROID, J., MAURY, A., MEZA, E., MORALES, N., NAGY, L., OPITOM, C., ORTIZ, J.L., POLLOCK, J., ROQUES, F., SNODGRASS, C., SOULIER, J.F., THIROUIN, A., VANZI, L., WIDEMANN, T., REICHART, D., LACLUYZE, A., HAISLIP, J.B., IVARSEN, K., MAONAIK, M., JERGENSEN, U., AND SKOTTFELT, J. (2015) Pluto's atmosphere from stellar occultations in 2012 and 2013. *Bull. Amer. Astron. Soc.* **47**, 200.09 (Abstract).
- DIAS-OLIVEIRA, A., SICARDY, B., ORTIZ, J.L., BRAGA-RIBAS, F., VIEIRA-MARTINS, R., ROSSI, G.B., CAMARGO, J., ASSAFIN, M., GOMEZ-JÚNIOR, A., BAUG, T., CHANDREKHAR, T., DUFFARD, R., ERGANG, Z., GANESH, S.G., IKARI, Y., IRAWATI, P., JAIN, R., LIYING, Z., RICHICHI, A., SHENGBANG, Q., BEHREND, R., BENKHALDOUN, Z., BROSCHE, N., DAASSOU, A., GAL-YAM'S, A., GARCIA-LOZANO, R., GILLON, M., JEHN, E., KASPI, S., KLOTZ, A., LECACHEUX, J., MAHASENA, P., MANFROID, J., RINNER, C., ROQUES, F., SHARMA, A., SPOSETTI, S., TANGA, P., THIROUIN, A., VACHIER, F., AND WIDEMANN, T. (2016) 2003 AZ₈₄: size, shape, albedo and first detection of topographic features. *Bull. Amer. Astron. Soc.* **48**, no. 7, 9–10 (Abstract).
- DICICCO, D. (1983) Pluto's near miss. In "Observer's Page," *Sky and Tel.* **59**, 559–560.
- DICICCO, D. (1997) Fading Pluto and other planetary highlights. In "Observer's Notebook," *Sky and Tel.* **94**, no. 4, 102.
- DICICCO, D. (1997) Solar system happenings. *Sky and Tel.* **94**, no. 6, 112.
- DICK, S.J. (1995) *Lowell's observatory commemorated* (Book review). *Jour. Hist. Astron.* **26**, 181–182.
- DICKINSON, T. (1978) Pluto: planet or ball of ice? *Sci. Forum* **11**, no. 4, 53–54.
- DICKINSON, T. (1980) From the editor. *Star and Sky* **2**, 4.
- DICKINSON, T. (1980) Planets beyond Pluto? *Star and Sky* **2**, 45.
- DIEHL, R. (1975) *Resonant gravitational systems: the long-term motion of Pluto and of a synchronous satellite*. Ph. D. dissertation, Univ. of Texas at Austin, Austin, TX.
- DINGLE, H. AND SMART, W.M. (1930) Meeting of the Royal Astronomical Society, Wednesday, 1930 May 28. *The Observatory* **53**, 198–201.
- DINGLE, H. AND SMART, W.M. (1931) Annual General Meeting of the Royal Astronomical Society, Friday, 1931 February 13. *The Observatory* **54**, 68–69.
- DISISTO, R.P., BRUNINI, A., AND DEELÍA, G.C. (2010) Dynamical evolution of escaped plutinos, another source of Centaurs. *Astron. Astrophys.* **519**, A112.
- DISISTO, R.P. (2020) Las poblaciones distantes de cuerpos pequeños del sistema solar. *Bo. Asoc. Argentina de Astronomía* **61B**, 13–20.
- DIVITA, E.L., DRAPER, R.F., FREWING, H.K., AND STAVRO, W. (1970) TOPS spacecraft and the missions. *Astronautics and Aeronautics* **8**, no. 9, 45–54.
- DIXON, W.J. (1967) Major system design problems for deep space probes. *Jour. Spacecraft and Rockets* **4**, no. 9, 1121–1127.
- DOBBINS, T.A., PARKER, D.C., AND CAPEN, C.F. (1988) "Outermost Pluto—The Misfit. Chapter 12" In *Introduction to Observing and Photographing the Solar System* (Willmann-Bell, Richmond, VA), 119–121.
- DOBROVLSKIS, A.R. AND HARRIS, A.W. (1983) The obliquity of Pluto. *Icarus* **55**, 231–235.
- DOBROVLSKIS, A.R. (1989) Dynamics of Pluto. *Eos* **70**, 381 (Abstract).
- DOBROVLSKIS, A.R. (1989) Dynamics of Pluto and Charon. *Geophys. Res. Letters* **16**, 1217–1220.
- DOBROVLSKIS, A.R., PEALE, S.J., AND HARRIS, A.W. (1993) Dynamics of the Pluto–Charon binary. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).

- DOBROVOLSKIS, A.R. (1993) The Laplace planes of Uranus and Pluto. *Icarus* **105**, 400–407.
- DOBROVOLSKIS, A.R. (2021) On a planet’s annual mean insolation. *Icarus* **363**, 114297.
- DOBRYZCKI, J. (1986) Tadeusz Banachiewicz and the orbit of Pluto. *Geodezja* **87**, no. 1000, ??.
- DOBSON, M.W., SCHWAMB, M.E., BENECCHI, S.D., VERBISCHER, A.J., FITZSIMMONS, A., SHINGLES, L.J., DENNEAU, L., HEINZE, A.N., SMITH, K.W., TONRY, J.L., WEILAND, H.E., AND YOUNG, D.R. (2023) Phase curves of Kuiper Belt Objects, Centaurs, and Jupiter-family comets from the ATLAS Survey. *Planetary Sci. Jour.* **4**, no. 4, 75.
- DOLGANOVA, E.V., KUIMOV, K.V., AND SHOKIN, YU.A. (1993) Position observations of Pluto in 1969–1970 and 1989–1991. *Pis'ma Astron. Zh.* **19**, 978–982.
- DOLGANOVA, E.V., KUIMOV, K.V., AND SHOKIN, YU.A. (1993) Positional observations of Pluto in 1969, 1970, 1989, 1990, and 1991. *Sov. Astron. Lett.* **19**, no. 5, 397–399.
- DOLLFUS, A. (1981) L’observation de la planète Pluton à l’Observatoire de Meudon en 1930. *L’Astronomie* **95**, 527–545.
- DOMAGAL-GOLDMAN, S., JUANOLA-PARRAMON, R., ARNEY, G., AND ROBERGE, A. (2019) Observing the solar system with LUVUOIR: high angular resolution with a segmented aperture. *Bull. Amer. Astron. Soc.* **51**, no. 4, 301.14 (Abstract).
- DOMBARD, A.J. AND O’HARA, S. (2016) Planetary science: Pluto’s polygons explained. *Nature* **534**, no. 7605, 40–41.
- DONES, H.C. AND BIERHAUS, E.B. (2014) Transfer of impact ejecta between Pluto and Charon. *Bull. Amer. Astron. Soc.* **45**, 401.01 (Abstract).
- DONES, H.C. AND DASSANAYAKE, S.K. (1996) Long-term orbital evolution of Halley-type and Long-Period comets. *Bull. Amer. Astron. Soc.* **29**, 1020 (Abstract).
- DONES, H.C. (2015) Planets perturbing planetoids: how clear is the neighborhood? *Bull. Amer. Astron. Soc.* **47**, 415.20 (Abstract).
- DORMAND, J.R. AND WOOLFSON, M.M. (1977) A possible Neptune–Pluto–Triton interaction. In ‘Interactions in the early solar system’ *Mon. Not. Roy. Astron. Soc.* **180**, 270–275.
- DORMAND, J.R. AND WOOLFSON, M.M. (1980) The origin of Pluto. *Mon. Not. Roy. Astron. Soc.* **193**, 171–174.
- DOUTÉ, S., SCHMITT, B., QUIRICO, E., OWEN, T.C., CRUIKSHANK, D.P., DEBERGH, C., GEBALLE, T.R., AND ROUSH, T.L. (1999) Evidence for methane segregation at the surface of Pluto. *Icarus* **142**, 421–424.
- DOUTÉ, S., SCHMITT, B., QUIRICO, E., OWEN, T.C., CRUIKSHANK, D.P., DEBERGH, C., GEBALLE, T.R., AND ROUSH, T.L. (1999) Evidence for methane segregation on the surface of Pluto. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- DORDEVIC, M. (2016) Digital Earth resources for primary, secondary, and tertiary geoscience education. *Geological Soc. Amer. Annual Meeting* **T76**, 67-20 (Abstract).
- DORNHEIM, M.A. (2001) NASA reopens door to Pluto mission. *Aviation Week & Space Technology* **154**, no. 1, 41.
- DOUGLAS, J.P. AND NEWLAND, F. (2006) The Year in Review: Space and Missile Systems: Space Operations and Support: Planetary Missions. *Aerospace America* **44**, no. 12, 90.
- DOWDELL, A. (1979) Observing Pluto. *The Astronomer* **16**, 12.
- DRAKE, M.J. (2000) Policy in Review. *Lunar and Planetary Information Bulletin* **89**, 5–6.
- DRAKE, M.J. (2001) Policy in Review. *Lunar and Planetary Information Bulletin* **91**, 4–6.
- DRAKE, N. (2012) Hubble spots a fifth Pluto moon. *Sci. News* **182**, no. 3, 8.

- DRISH, JR., W.F., HARMON, R., WILD, W.J., AND MARCIALIS, R.L. (1993) Pluto images generated via Matrix Lightcurve Inversion. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- DRISH, JR., W.F., HARMON, R., MARCIALIS, R.L., AND WILD, W.J. (1995) Images of Pluto generated by matrix lightcurve inversion. *Icarus* **113**, 360–386.
- DRISH, JR., W.F., WILD, W.J., HARMON, R., AND MARCIALIS, R.L. (1995) Applications of matrix lightcurve inversion: an images to Pluto. *Proc. SPIE* **2622**, 27–35.
- DROZYNER, A. (1977) The outer planets of the solar system. *Astronautyka* **20**, no. 3, 11–16.
- DRUMMOND, J.D. AND HEGE, E.K. (1986) Speckle interferometry applied to asteroids and other solar system objects. *Reports of Planetary Astronomy—1985 NASA Technical Memorandum* **89189**, 85–86 (Abstract).
- DRYER, M., RIZZI, A.W., AND SHEN, W.-W. (1973) Interaction of the solar wind with the outer planets. *Astrophys. and Spa. Sci.* **22**, 329–351.
- DU LIGONDÈS, R.M. (1901) Sur les planètes telescopiques. *L’Astronomie* **15**, 358–361.
- DU LIGONDÈS, R.M. (1903) Au sujet des planètes transneptuniennes. *L’Astronomie* **17**, 121–122.
- DUMAS, C., TERRILE, R., BURGASSER, A., BROWN, R., RIEKE, M., SCHNEIDER, G., THOMPSON, R., AND KOERNER, D. (1998) Reflectance spectroscopy of the individual members of the Pluto/Charon system: HST/NICMOS results. *Bull. Amer. Astron. Soc.* **30**, 1108 (Abstract).
- DUMAS, C. AND TERRILE, R.J. (1999) Reflectance spectroscopy of the individual members of the Pluto/Charon system: HST/NICMOS results. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- DUMAS, C., TERRILE, R., BROWN, R.H., SCHNEIDER, G., AND SMITH, B.A. (2001) Hubble Space Telescope NICMOS spectroscopy of Charon’s leading and trailing hemispheres. *Astron. Jour.* **121**, 1163–1170.
- DUMAS, R.C., COSTELLO, J.D., WULKE, F.I., SULLIVAN, A.M., AND OWEN, JR., W.M. (2004) Pluto Observations [673 Table Mountain Observatory, Wrightwood]. *Minor Planet Circular* **52314**, 1.
- DUMAS, C., MERLINE, W.J., BARUCCI, A., DEBERGH, C., CARRY, B., FULCHIGNONI, M., GILBERT, A., AND MERLIN, F. (2006) Sinfoni observations of small solar system bodies: application to the asteroid Vesta and Pluto’s satellite Charon. *Bull. Amer. Astron. Soc.* **38**, 593–594 (Abstract).
- DUNBAR, R.S. (1985) An analytical model for Pluto–Charon mutual eclipse events. *Bull. Amer. Astron. Soc.* **17**, 714 (Abstract).
- DUNBAR, R.S. AND TEDESCO, E.F. (1980) Modeling Pluto–Charon mutual eclipse events I. First order models. *Astron. Jour.* **92**, 1201–1209.
- DUNBAR, R.S. (1989) “First-order modelling of mutual events lightcurves.” Paper given at *Pluto at Perihelion*, JPL, Sept. 25.
- DUNCAN, J.C. (1952) Carl Otto Lampland (1873–1951). *Pub. Astron. Soc. Pacific* **63**, 293–296.
- DUNCAN, M.J. AND LISSAUER, J.J. (1998) The effects of post-main-sequence solar mass loss on the stability of our planetary system. *Icarus* **134**, 303–310.
- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1971) “Investigations of the masses of the outer planets.” Paper given at *American Astronautical Society and American Institute of Aeronautics and Astronautics Specialists Conference*, Ft. Lauderdale, Fla. August 17–19.
- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1968) Mass of Pluto. *Science* **162**, 800.
- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1968) The orbit of Neptune and the mass of Pluto. *Bull. Amer. Astron. Soc.* **1**, 186–187 (Abstract).
- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1968) Orbit of Neptune and the mass of Pluto. *Astron. Jour.* **73**, 830–835.

- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1970) Note on the mass of Pluto. *Pub. Astron. Soc. Pacific* **82**, 916–917.
- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1971) A determination of the masses of the five outer planets. *Cel. Mech.* **4**, 224–232.
- DUNCOMBE, R.L., KLEPCZYNSKI, W.J., AND SEIDELMANN, P.K. (1972) Accuracy of outer-planet ephemerides. *Astronautics & Aeronautics* **10**, no. 8, 63–65.
- DUNCOMBE, R.L. AND SEIDELMANN, P.K. (1980) A history of the determination Pluto’s mass. *Icarus* **44**, 12–18.
- DUNHAM, D.W. (1991) A.A.S. Division for Planetary Sciences: eclipses of Charon, etc. *Occultation Newsletter* **2**, no. 2, 20.
- DUNHAM, D.W. (1991) Planetary occultations in 1991. *Occultation Newsletter* **5**, no. 3, 58.
- DUNHAM, D.W. AND FARQUHAR, R.W. (2005) Gravity-assist trajectories for interplanetary and solar exploration at the Applied Physics Laboratory. *Bull. Amer. Astron. Soc.* **36**, 527 (Abstract).
- DUNHAM, D.W. AND MUHONEN, D.P. (2001) Tables of libration-point parameters for selected solar system objects. *Jour. Astronautical Sci.* **49**, no. 1, 197–217.
- DUNHAM, E.W., ELLIOT, J.L., BOSH, A.S., SLIVAN, S.M., AND YOUNG, L.A. (1988) The structure of Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **20**, 805 (Abstract).
- DUNHAM, E.W., McDONALD, S.W., AND ELLIOT, J.L. (1990) Pluto–Charon stellar occultation search. *Bull. Amer. Astron. Soc.* **22**, 1129 (Abstract).
- DUNHAM, E.W., McDONALD, S.W., AND ELLIOT, J.L. (1991) Pluto–Charon stellar occultation candidates: 1990–1995. *Astron. Jour.* **102**, 1464–1484.
- DUNHAM, E.W., FORD, C.H., GRANADOS, A.F., STONE, R.P.S., McDONALD, S.W., OLKIN, C.B., AND ELLIOT, J.L. (1993) Occultation predictions using CCD strip-scanning astrometry. *Bull. Amer. Astron. Soc.* **25**, 1107 (Abstract).
- DUNHAM, JR., T. (1939) Knowledge of the planets in 1938. *Pub. Astron. Soc. Pacific* **51**, 253–273.
- DUNHAM, JR., T.W. (1949) “Spectroscopic observations of the planets at Mt. Wilson” In *The atmospheres of the Earth and the planets*, ed. G.P. Kuiper (Univ. of Chicago Press, Chicago, IL), pp. 303–304.
- DURAND-MANTEROLA, H.J. AND PÉREZ-DE-TEJADA, H. (2015) Possible scenarios that the New Horizons spacecraft may find in its close encounter with Pluto. Submitted to *arXiv:1505.07311*
- DURDA, D.D. AND STERN, S.A. (1998) Collisional and cratering rates in the Kuiper Belt: applications to surface activation and modification. *Bull. Amer. Astron. Soc.* **30**, 1113 (Abstract).
- DURDA, D.D. AND STERN, S.A. (1999) Collision rates in the present-day Kuiper Belt and Centaur regions: applications to surface activation and modification on comets, Kuiper Belt objects, Centaurs, and Pluto–Charon. *Icarus* **145**, 220–229.
- DURDA, D.D., STERN, S.A., LUNINE, J.I., AND MORBIDELLI, A. (2000) Constraints on collisional evolution in the Edgeworth–Kuiper Belt: exploiting the “Vesta Crust” paradigm. *Bull. Amer. Astron. Soc.* **32**, 1030 (Abstract).
- DURDA, D.D. (2006) Planetary Perspectives: on the way to Pluto! *Mercury* **35**, no. 2, 6.
- DURHAM, W.B. (2001) Rheological properties of water ice—applications to satellites of the outer planets. *Ann. Rev. Earth & Planet. Sci.* **29**, 295–330.
- DUXBURY, N.S. AND BROWN, R.H. (1996) Physics of solid N₂: a possible solution for Pluto’s and Triton’s albedo conundrums. *Bull. Amer. Astron. Soc.* **28**, 1080 (Abstract).
- DUXBURY, N.S., BROWN, R.H., AND ANICICH, V. (1997) Condensation of nitrogen: implications for Pluto and Triton. *Icarus* **129**, 202–206.
- DUXBURY, N.S., BROWN, R.H., AND GOGUEN, J.D. (1997) Heat and mass transport in cryogenic ices: application to Pluto and Triton. Submitted to *Icarus*.

- DUXBURY, T.C. AND OHTAKAY, H. (1970) “In-flight calibration of a navigation instrument.” Paper given at *Guidance, Control and Flight Mechanics Conference*, Santa Barbara, CA.
- DUXBURY, T.C. AND OHTAKAY, H. (1971) In-flight calibration of a navigation instrument. *Jour. Spacecraft and Rockets* **8**, no. 10, 1038–1042.
- DVORAK, R. (1993) Pluto’s chaotic orbit: a comparison of different models. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- DVORAK, R. LOHINGER, E., AND MAINDL, T.L. (1995) “On the chaoticity of Pluto’s orbit.” In *Perturbation theory and chaos in nonlinear dynamics with emphasis to celestial mechanics*, ed. Hagel, *et al.* (Funchal and Vienna), pp. 20–29.
- DVORAK, R. AND LOHINGER, E. (1996) “Pluto’s Lyapunov numbers in different dynamical models.” In *Dynamics, ephemerides, and astrometry of the solar system*, ed. Ferraz-Mello, S., Morando, B., and Arlot, J.-E. (Kluwer Academic Publishers, Boston), pp. 71–74.
- DWORAK, T.Z. (1976) On the farthest planets of the solar system. *Urania Kraków w Postepy Astron.* **47**, 168–171.
- DWORAK, T.Z. (1990) *Najdalsze planety układu słonecznego Biblioteka Uranii Nr. 3.* (Polskie Towarzystwo Mitośników Astronomii, Universitas, Kraków (Poland)), 63 pp.
- DWORAK, T.Z. (1991) Peculiarities of seasons of a year on Pluto. *Urania Kraków Postepy Astron.* **62**, 297–303.
- DWORAK, T.Z. (1997) Peculiarities of the changes during a year and the environment on Pluto. *Urania Kraków Postepy Astron.* **69**, 32–34.
- DYER, A. (1990) Hunting the last planet: this spring Pluto will be closer to earth than it’s been for 248 years. *Astronomy* **18**, no. 4, 58–60.
- DYER, A. (1992) The coldest places in the solar system. *Weatherwise* **45**, no. 4.
- DYSON, F. (1995) 21st century spacecraft. *Sci. Amer.* **273**, no. 3, 114A–116A.
- EARLE, A.M. AND BINZEL, R.P. (2014) Pluto’s insolation history: latitudinal Variations and effects on atmospheric pressure. *Bull. Amer. Astron. Soc.* **46**, 401.07 (Abstract).
- EARLE, A.M. AND BINZEL, R.P. (2015) Pluto’s insolation history: latitudinal variations and effects on atmospheric pressure. *Icarus* **250**, 405–412.
- EARLE, A.M., BINZEL, R.P., STERN, S.A., YOUNG, L.A., BURATTI, B.J., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., AND SPENCER, J.R. (2015) Correlating Pluto’s albedo distribution to long term insolation patterns. *Bull. Amer. Astron. Soc.* **47**, 200.05 (Abstract).
- EARLE, A.M., BINZEL, R., YOUNG, L., STERN, S.A., OLKIN, C.B., ENNICO, K., MOORE, J.M, WEAVER, H.A., THE NASA NEW HORIZONS COMPOSITION TEAM, AND THE NASA NEW HORIZONS GGI TEAM. (2016) Volatile transport in Pluto’s super seasons. *Bull. Amer. Astron. Soc.* **48**, no. 7, 108 (Abstract).
- EARLE, A.M., BINZEL, R.P., YOUNG, L.A., STERN, S.A., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., AND WEAVER, H.A., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS IMAGING TEAM. (2017) Long-term surface temperature modeling of Pluto. *Icarus* **287**, 37–46.
- EARLE, A.M., BINZEL, R.P., YOUNG, L.A., STERN, S.A., ENNICO, K., GRUNDY, W., OLKIN, C.B., WEAVER, H.A., AND THE NEW HORIZONS SURFACE COMPOSITION THEME. (2018) Albedo matters: understanding runaway albedo variations on Pluto. *Icarus* **303**, 1-9.
- EARLE, A., GRUNDY, W.M., HOWETT, C., OLKIN, C., PARKER, A.H., SCHENK, P.M., SCIPIONI, F., BEYER, R.A., BINZEL, R.P., CRUIKSHANK, D.P., ENNICO, K., REUTER, D., SCHMITT, B., STERN, S.A., WEAVER, H.A., AND YOUNG, L. (2017) Methane distribution on Pluto as mapped by New Horizons’ Ralph/MVIC instrument. *Bull. Amer. Astron. Soc.* **49**, 102.09 (Abstract).

- EARLE, A.M., GRUNDY, W., HOWETT, C.J.A., OLKIN, C.B., PARKER, A.H., SCHENK, P.M., SCIPIONI, F., BINZEL, R.P., BEYER, R.A., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., PROTOPAPA, S., REUTER, D.C., SCHENK, P.M., SCHMITT, B., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SURFACE COMPOSITION THEME TEAM. (2018) Methane distribution on Pluto as mapped by the New Horizons Ralph/MVIC instrument. *Icarus* **314**, 195–209.
- EARLE, A.M., GRUNDY, W., HOWETT, C., OLKIN, C., PARKER, A., SCIPIONI, F., BINZEL, R.P., BEYER, R.A., COOK, J., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., LEWIS, B., PROTOPAPA, S., SCHENK, P.M., SCHMITT, B., STERN, S.A., WEAVER, H., AND YOUNG, L.A. (2018) The highest spatial resolution compositional maps of Pluto and what they tell us about surface composition and geology. *Bull. Amer. Astron. Soc.* **50**, 314.02 (Abstract).
- EARLE, A.M., BINZEL, R.P., YOUNG, L.A., BERTRAND, T., BUIE, M.W., CRUIKSHANK, D.P., ENNICO, K.S., FORGET, F., GRUNDY, W.M., MOORE, J.M., OLKIN, C.B., SCHMITT, B., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TRAFTON, L.M., UMURHAN, O.M., WEAVER, H.A., AND NEW HORIZONS SCIENCE TEAM. (2019) Volatile and climate cycles on short and long timescales. *Pluto System After New Horizons*, LPI Contribution No. 2133, Larchmont, MD, 2019 July 14–18, 7044 (Abstract).
- EARLE, A. (2019) Latitude zones and seasons on 2014 MU 69 ‘Ultima Thule’. *ESPC–DPS Joint Meeting* **13**, 1055E (Abstract).
- EARLE, A.M., OLKIN, C., STERN, S., SPENCER, J., WEAVER, H., HOWETT, C., PARKER, A., GRUNDY, W., PROTOPAPA, S., DALLE ORE, C., SCIPIONI, F., BINZEL, R., KEANE, J., AND NASA NEW HORIZONS SURFACE COMPOSITION SCIENCE THEME TEAM. (2020) The color of 2014 MU₆₉. *Bull. Amer. Astron. Soc.* **52**, no. 1, 419.03 (Abstract).
- EARLE, A.M., BINZEL, R.P., KEANE, J.T., GRUNDY, W.M., HOWETT, C.J.A., OLKIN, C.B., PARKER, A.H., SCIPIONI, F., ENNICO, K., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SURFACE COMPOSITION THEME TEAM. (2022) Tracing seasonal trends across Pluto’s craters: New Horizons Ralph/MVIC results. *Icarus* **373**, 114771.
- EBERHART, J. (1974) Across the solar system. *Sci. News* **105**, 162–163, 167.
- EBERHART, J. (1982) Other worlds of 1922. *Sci. News* **121**, 167–169.
- EBERHART, J. (1985) Eclipses of and by Pluto’s moon. *Sci. News* **127**, 132.
- EBERHART, J. (1987) Pluto: limits on its atmosphere, ice on its moon. *Sci. News* **132**, 207.
- EBERHART, J. (1988) Evidence of an atmosphere on Pluto. *Sci. News* **133**, 391.
- EBERHART, J. (1988) Glimpsing the atmosphere of Pluto. *Sci. News* **134**, 319.
- EBERHART, J. (1989) Pluto’s atmosphere: more than methane. *Sci. News* **135**, 326.
- EBERT, R.W., MCCOMAS, D.J., BAGENAL, F., ELLIOTT, H.A., HAGGERTY, D.K., AND SU, Y. (2009) Plasma observations of magnetopause crossings along Jupiter’s distant dusk-side flank from ~1650 to 2550 R_J. *AGU Fall Meeting Abstracts* **SM23B**, 1615 (Abstract).
- EBERT, R.W., MCCOMAS, D.J., RODRIGUEZ, B., VALEK, P., AND WEIDNER, S. (2010) A composition analysis tool for the Solar Wind Around Pluto (SWAP) instrument on New Horizons. *Spa. Sci. Rev.* **156**, 1–12.
- ECKERT, W.J., BROUWER, D., AND CLEMENCE, G.M. (1951) Coordinates of the five outer planets 1653–2060. *Astron. Papers Amer. Eph. & Nautical Almanac* **XII**, 1–327.
- ECKERT, W.J. (1951) Numerical theory of the five outer planets. *Astron. Jour.* **56**, 38 (Abstract).
- EDWARDS, B., SAVINI, G., TINETTI, G., TESSENYI, M., ARENA, C., LINDSAY, S., AND BOWLES, N. (2019) Remote-sensing characterization of major solar system bodies with the Twinkle space telescope. *Jour. Astronomical Telescopes, Instruments, and Systems* **5**, no. 1, 014006.

- EGLITIS, I., EGLITE, M., KAZANTSEVA, L.V., SHATOKHINA, S.V., PROTSYUK, YU.I., KOVYLIANSKAYA, O.E., AND ANDRUK, V.M. (2019) “Astrometric and photometric processing of Pluto digitized photographic observations 1961–1996.” Paper given at *Astroplate 2016, Proceedings of a conference held in March, 2016 in Prague, Czech Republic*. Editor Petr Skala. Published by Czech Technical University in Prague, Prague., 5–8.
- EICHER, D. (1984) How to hunt down Pluto. *Astronomy* **12**, no. 4, 35–37.
- EICHER, D. (1987) How to view this summer’s Pluto–Charon transits. *Astronomy* **15**, 97–106.
- EICHER, D. (1988) Pluto emerges from the shadows. *Astronomy* **16**, no. 9, 52–53.
- EICHER, D. (1993) Pluto watch: track the elusive world at the edge of the solar system. *Astronomy* **21**, 70–71.
- EICHER, D. (1993) What’s next for astronomy? *Astronomy* **21**, no. 8, 30–37.
- EICHER, D. (1993) Taking the Pluto challenge. *Astronomy* **21**, no. 9, 81.
- EICHER, D. (2006) The real Dark Ages. *Astronomy* **24**, no. 6, 6.
- EICHER, D. (2006) Down to 8. *Astronomy* **34**, no. 12, 6.
- EICHER, D.J. (2007) New Horizons dazzles scientists. *Sky and Tel.* **35**, no. 8, 8.
- EICHER, D.J. (2019) America’s observatory enters a new age. *Astronomy* **47**, no. 1, 44–48.
- EICHER, D.J. (2019) Meet the researchers at Lowell. *Astronomy* **47**, no. 1, 46.
- EISENMAN, A. AND YELLIN, M. (1995) New technology tracker for the Pluto mission spacecraft. *Proc. SPIE* **2466**, 60–67.
- EKERS, R. (2012) “The Reclassification of Pluto as a Dwarf Planet.” In *ICHA Science Meetings at the IAU XXVIII General Assembly* (ed. C. Sterken), 33 pp..
- EL-GENK, M.S. AND TOURNIER, J.M. (1998) Parametric analyses of vapor-anode, multitube AMTEC cells for Pluto/Express mission. *Space technology and applications international forum — 1998. AIP Conference Proceedings* **420**, 1461–1470.
- EL-GENK, M.S., TOURNIER, J.M., JAMES, R. AND MAYBERRY, C. (1999) Super-alloy, AMTEC cells for the Pluto/Express mission. *Space technology and applications international forum — 1999. AIP Conference Proceedings* **458**, 1293–1300.
- ELICES, T. (1999) “Selecting orbits for an aero-gravity assist experiment.” Paper given at *37th Aerospace Sciences Meeting*, Reno, NV, AIAA paper #99-0984.
- ELICHORN, H.K. (1998) Book Review: *Pluto and Charon: ice worlds on the ragged edge of the solar system*, by S.A. Stern and J. Mitton, John Wiley and Sons, New York, NY. 232 pp. *Choice* **35**, no. 9, 1551.
- ELKERS, R. (2019) The Prague IAU General Assembly, Pluto and the IAU processes. *Under One Sky: The IAU Centenary Symposium. Proceedings of the International Astronomical Union* **349**, 951–57.
- ELLENBERGER, C.L. (1980) Underworld god. *New Scientist* **86**, no. 1206, 343 (Letter to editor).
- ELLIOT, G. AND THOLEN, D.J. (2006) New and improved ephemerides of Nix and Hydra during the 1985 to 1990 mutual events between Pluto and Charon. *2006 Bull. Amer. Astron. Soc.*, 38525 (Abstract).
- ELLIOT, G. AND THOLEN, D.J. (2006) New and improved ephemerides of Nix and Hydra during the 1985 to 1990 mutual events between Pluto and Charon. *2006 Bull. Amer. Astron. Soc.*, 38935 (Abstract).
- ELLIOTT, H.A., MCCOMAS, D.J., AND DELAMERE, P.A. (2012) New Horizons Solar Wind Around Pluto (SWAP) measurements from 5 to 23 AU. *AGU Fall Meeting Abstracts* **SH11**, B2201 (Abstract).
- ELLIOTT, H.A., MCCOMAS, D.J., VALEK, P.W., NICOLAOU, G., BAGENAL, F., DELAMERE, P.A., AND LIVADIOTIS, G. (2014) Solar wind observations from 10 to 30 AU measured with the New Horizons Solar Wind Around Pluto (SWAP) Instrument. *AGU Fall Meeting Abstracts* **SH11B**, 2201 (Abstract).

- ELLIOTT, H.A., MCCOMAS, D.J., VALEK, P., NICOLAOU, G., WEIDNER, S., AND LIVADIOTIS, G. (2016) New Horizons Solar Wind Around Pluto (SWAP) observations of the solar wind from 11–33 AU. *Astrophys. Jour.Supp.* **223**, no. 2, 19.
- ELLIOTT, H.A., MCCOMAS, D.J., ZIRNSTEIN, E.J., RANDOL, B.M., DELAMERE, P.A., LIVADIOTIS, G., BAGENAL, F. BARNES, N.P., STERN, S.A., YOUNG, L.A., OLKIN, C.B., SPENCER, J., WEAVER, H.A., ENNICO, K., GLADSTONE, G.R., SMITH, C.W., AND NEW HORIZONS PLASMA AND PARTICLE TEAM. (2019) Slowing of the solar wind in the outer heliosphere. *Astrophys. Jour.* **885**, no. 2, 156.
- ELLIOTT, H., RICHARDSON, J., LIVADIOTIS, G., MCCOMAS, D., ZIRNSTEIN, E., SWACZYNA, P., STERN, A., GLADSTONE, R., BRANDT, P., BAGENAL, F., HILL, M., MCNUTT, R., YOUNG, L., OLKIN, C., SINGER, K., WEAVER, H., AND SPENCER, J. (2022) Radial variation of the solar wind temperature-density relationship. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, D1.5-0004-22*, (Abstract).
- ELLIOTT, H., MCCOMAS, D., DESAI, M., ZIRNSTEIN, E., SWACZYNA, P., DELANO, K., STERN, A., GLADSTONE, R., BRANDT, P., BAGENAL, F., HILL, M., MCNUTT, R., YOUNG, L., SINGER, K., WEAVER, H., AND SPENCER, J. (2022) Heliopsheric science we can do combining IMAP solar wind plasma, field, and composition observations with similar observations from the current fleet. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, D1.4-0009-22*, (Abstract).
- ELLIOT, J.L. AND DUNHAM, E.W. (1988) Occultation by Pluto. *IAU Circular No. 4611*.
- ELLIOT, J.L. (1988) Portable high-speed photometry system for observing occultations. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 41–42 (Abstract).
- ELLIOT, J.L. AND MILLIS, R.L. (1988) Stellar occultation by Pluto. *Reports of Planetary Astronomy NASA Technical Memorandum 4063*, 180 (Abstract).
- ELLIOT, J.L., DUNHAM, E.W., BOSH, A.S., SLIVAN, S.M., YOUNG, L.A., WASSERMAN, L.H., AND MILLIS, R.L. (1988) Stellar occultation observations of Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **20**, 805 (Abstract).
- ELLIOT, J.L. (1989) Occultation studies of the solar system. *Reports of Planetary Astronomy—1989 NASA Technical Memorandum 4120*, 33 (Abstract).
- ELLIOT, J.L. (1989) Pluto’s atmosphere. *Reports of Planetary Astronomy—1989 NASA Technical Memorandum 4120*, 143 (Abstract).
- ELLIOT, J.L., DUNHAM, E.W., BOSH, A.S., SLIVAN, S.M., YOUNG, L.A., WASSERMAN, L.H., AND MILLIS, R.L. (1989) Pluto’s atmosphere. *Icarus* **77**, 148–170.
- ELLIOT, J.L. AND BOSH, A.S. (1989) Does Pluto have a haze layer? *Bull. Amer. Astron. Soc.* **21**, 981 (Abstract).
- ELLIOT, J.L. (1990) Occultation studies of the solar system. *Reports of Planetary Astronomy—1990 NASA Technical Memorandum 4205*, 33 (Abstract).
- ELLIOT, J.L. AND YOUNG, L.A. (1991) Does Charon have an atmosphere? *Lunar & Planetary Sci.* **21**, 347–348 (Abstract).
- ELLIOT, J.L. AND YOUNG, L.A. (1991) Limits on the radius and a possible atmosphere of Charon from its 1980 stellar occultation. *Icarus* **89**, 244–254.
- ELLIOT, J.L. (1991) “Pluto, Charon, and Triton Key Project.” Paper given at *Workshop on U.S. Key Projects for ISO*, Pasadena, CA, March 15–16.
- ELLIOT, J.L. (1991) Occultation studies of the solar system. *Reports of Planetary Astronomy—1991 NASA Technical Memorandum 4329*, 41–42 (Abstract).
- ELLIOT, J.L., AND YOUNG, L.A. (1991) Occultation constraints on atmospheric models for Pluto. *Bull. Amer. Astron. Soc.* **23**, 1216 (Abstract).
- ELLIOT, J.L. AND YOUNG, L.A. (1992) Analysis of stellar occultation data for planetary atmospheres: I. model fitting, with application to Pluto. *Astron. Jour.* **103**, 991–1015.

- ELLIOT, J.L., DUNHAM, E.W., AND OLKIN, C.B. (1995) “Exploring small bodies in the outer solar system with stellar occultations.” In *Astronomical Society of the Pacific, Airborne Astronomy Symposium on the Galactic Ecosystem: From Gas to Stars to Dust* (73), 285–296.
- ELLIOT, J.L. AND OLKIN, C.B. (1996) Probing planetary atmospheres with stellar occultations. *Ann. Rev. Earth & Plan. Sci.* **24**, 89–123.
- ELLIOT, J.L. (1998) Stellar occultation studies of the solar system. *Reports of Planetary Astronomy—1998 NASA Technical Report CR-1998-206810*, ??? (Abstract).
- ELLIOT, J.L. (1998) The atmospheric structure of Triton and Pluto. *1998 Technical Report, Lowell Observatory Flagstaff, AZ., 40 pp.*
- ELLIOT, J.L. (2002) Pluto occultations 2002. *Bull. Amer. Astron. Soc.* **34**, no. 3, 877 (Abstract).
- ELLIOT, J.L., BUIE, M.W., PERSON, M.J., AND QU, S. (2002) Pluto’s atmosphere, then and now. *Bull. Amer. Astron. Soc.* **34**, no. 3, 878 (Abstract).
- ELLIOT, J.L., CLANCY, K.B., RAYNER, J.T., THOLEN, D.J., PERSON, M.J., OSIP, D.J., PASACHOFF, J.M., BABCOCK, B.A., TICEHURST, D.R., HALL, D., ROBERTS, JR., L.C., BOSH, A.S., EIKENBERRY, S.S., MOON, D.-S., BUIE, M.W., DUNHAM, E.W., OLKIN, C.B., TAYLOR, B., KERN, S.D., QU, S., SALYK, C.V., LEGETT, S.K., LEVINE, S.E., AND STONE, R.C. (2002) Pluto occultation of P131.1 in 2002 August: overview of observations and infrared results. *Bull. Amer. Astron. Soc.* **34**, 1211 (Abstract).
- ELLIOT, J. L., ATES, A., BABCOCK, B.A., BOSH, A.S., BUIE, M.W., CLANCY, K.B., DUNHAM, E.W., EIKENBERRY, S.S., HALL, D.T., KERN, S.D., LEGGETT, S.K., LEVINE, S.E., MOON, D.-S., OLKIN, C.B., OSIP, D.J., PASACHOFF, J.M., PENPRASE, B.E., PERSON, M.J., QU, S., RAYNER, J.T., ROBERTS, L.C., SALYK, C.V., SOUZA, S.P., STONE, R.C., TAYLOR, B.W., THOLEN, D.J., THOMAS-OSIP, J.E., TICEHURST, D.R., AND WASSERMAN, L.H. (2003) The recent expansion of Pluto’s atmosphere. *Nature* **424**, no. 6945, 165–168.
- ELLIOT, J.L. (2003) Stellar occultation studies of Pluto, Triton, Charon, and Chiron. *Technical Report, Massachusetts Inst. of Tech., Cambridge, MA, Dept. of Earth, Atmospheric and Planetary Sciences.*
- ELLIOT, J.L. (2003) “Pluto’s changing atmosphere.” Paper given at *Recent Progress in Planetary Exploration, 25th meeting of the IAU, Special Session 1, 17-18 July, 2003*, Sydney, Australia.
- ELLIOT, J.L. AND KERN, S.D. (2003) Pluto’s atmosphere and a targeted-occultation search for other bound Kbo atmospheres. *Earth, Moon, and Planets* **92**, 375–393.
- ELLIOT, J.L., PERSON, M.J., AND QU, S. (2003) Analysis of stellar occultation data: II. inversion, with application to Pluto and Triton. *Astron. Jour.* **146**, 1041–1079.
- ELLIOT, J.L. (2003) Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **34**, 877 (Abstract).
- ELLIOT, J.L. (2005) Changes in Pluto’s atmosphere. *Highlights of Astronomy* **13**, 906–907.
- ELLIOT, J.L., PERSON, M.J., ADAMS, E.R., GULBIS, A.A.S., AND KRAMER, E.A. (2005) Resolved, time-series observations of Pluto–Charon with the Magellan telescopes. *Bull. Amer. Astron. Soc.* **37**, 732 (Abstract).
- ELLIOT, J.L., PERSON, M.J., GULBIS, A.A., ADAMS, E.R., KRAMER, E.A., ZULUAGA, C.A., PIKE, R.E., PASACHOFF, J.M., SOUZA, S.P., BABCOCK, B.A., GANGESTAD, J.W., JASKOT, A.E., FRANCIS, P.J., LUCAS, R., BOSH, A.S., GILES, A.B., GREENHILL, J.G., DIETERS, S.W., AND RAMM, D.J. (2006) The size of Pluto’s atmosphere as revealed by the 2006 June 12 occultation. *Bull. Amer. Astron. Soc.* **38**, 541 (Abstract).
- ELLIOT, J.L., PERSON, M.J., GULBIS, A.A.S., SOUZA, S.P., ADAMS, E.R., BABCOCK, B.A., GANGESTAD, J.W., JASKOT, A.E., KRAMER, E.A., PASACHOFF, J.M., PIKE, R.E., ZULUAGA, C.A., BOSH, A.S., DIETERS, S.W., FRANCIS, P.J., GILES, A.B., GREENHILL, J.G., LADE, B., LUCAS, R., AND RAMM, D.J. (2007) Changes in Pluto’s Atmosphere: 1988–2006 *Astron. Jour.* **134**, 1–13.

- ELLIOT, G.T. AND THOLEN, D.J. (2007) New ephemerides of Nix and Hydra during the 1985 to 1990 mutual events between Pluto and Charon. *Bull. Amer. Astron. Soc.* **38**, 935 (Abstract).
- ELUSZKIEWICZ, J., GRUNDY, W., YOUNG, L., AND BUIE, M. (2004) Interpreting Pluto’s spectra using a new radiative transfer model. *Bull. Amer. Astron. Soc.* **36**, 1087 (Abstract).
- ELUSZKIEWICZ, J., GRUNDY, W., YOUNG, L., AND BUIE, M. (2004) Interpreting Pluto’s spectra using a new radiative transfer model. *Bull. Amer. Astron. Soc.* **36**, 1435 (Abstract).
- EMANUELLI, P. (1930) The cometary aphelia and the trans-neptunian planet. *Pop. Astron.* **38**, 451.
- EMEL’YANOV, N.V. (1989) Pluto–Charon mutual eclipse predictions for 1989. *Astron. Tsirk.* **1535**, 27–28.
- EMEL’YANOV, N.V. (1989) Exceptional phenomena in the Pluto system. *Zemlya Vselennaya* **4**, 27–29.
- EMEL’YANOV, N.V. AND ARLOT, J.-E. (2008) The natural satellites ephemerides facility MULTI-SAT. *Astron. Astrophys.* **487**, 759–765.
- EMERY, J.P., GRUNDY, W.M., LUNSFORD, A., HIBBITTS, C.A., PHILLIPS, C.B., AND MASTRAPA, R.M.E. (2011) New Horizons/LEISA observations of the icy Galilean satellites. *Lunar & Planetary Sci.* **42**, 2163 (Abstract).
- EMRAN, A., CHEVRIER, V.F., AND AHRENS, C. (2020) CH₄ snowline on the mountains of Pluto during NASA’s New Horizons flyby. *Lunar & Planetary Sci.* **51**, 1616 (Abstract).
- EMRAN, A., CHEVRIER, V.F., AND AHRENS, C.J. (2021) A new methane Spectral Index from NASA’s New Horizons Ralph/MVIC Instrument. *Planetary Data Workshop & Planetary Science Informatics & Analytics* **5**, held virtually June 28–July 2, 2021. LPI Contribution No. 2549, 7007 (Abstract).
- EMRAN, A. DALLE ORE, C.M. AHRENS, C.J., KAHN, M.K.H., CHEVRIER, V.F., AND CRUIKSHANK, D.P. (2023) Pluto’s surface mapping using unsupervised learning from near-infrared observations of LEISA/Ralph. *Planetary Sci. Jour.* **4**, no. **1**, 15.
- ENCRENAZ, T. (1982) “Planets, asteroids and comets at high angular resolution.” In *Proceedings of the Conference on Scientific importance of high angular resolution at infrared and optical wavelengths* (Garching, West Germany), 307–317.
- ENCRENAZ, T., BÉZARD, B., CROVISIER, A. COUSTENIS, A., LELLOUCH, E., GULKIS, S., AND ATREYA, S.K. (1995) Detectability of molecular species in planetary and satellite atmospheres from their rotational transitions. *Planetary and Spa. Sci.* **43**, no. 12, 1485–1516.
- ENCRENAZ, T. (1998) Observation of solar system objects with the ISO satellite. *Bull. Amer. Astron. Soc.* **30**, 1059 (Abstract).
- ENCRENAZ, T/ (2009) The outer solar system. *Eur. Phys. Jour. Conferences* **1**, 249–265.
- EMSPAK, J. (2018) New insights into how the solar system formed. *Astronomy* **46**, no. 5, 22–27.
- ÉNEEV, T.M. (1980) Evolution of the outer solar system: possible structure beyond Neptune. *Sov. Astron. Lett.* **6**, 163–166.
- ENEVER, J.E. (1983) In “When explosions collide.” *Griffith Observer* **47**, no. 1, 9–11.
- ENGLAND, C. (2002) The potential for oceans within icy outer planetary bodies—a comparative study. *Bull. Amer. Astron. Soc.* **34**, 916 (Abstract).
- ENGLEHARDT, W. (1984) Neue planeten-portraits. Uranus, Neptun und Pluto und ihre monde. *Umschau* **84**, no. 2, 40–41.
- ENGLEHARDT, W. (1985) Planeten-porträts. Neue aufnahmen von Uranus, Neptun und Pluto. *Orione* **43**, 12–14.
- ENGLEHARDT, W. (1944) Zwei raumsonden zu Pluto. *Astron. Raumfahrt* **31**, no. 19, 16–17.

- ENNICO, K., HOWETT, C.J.A., OLKIN, C.B., REUTER, D.C., BURATTI, B.J., BUIE, M.W., GRUNDY, W.M., PARKER, A.H., ZANGARI, A.M., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., JENNING, D.E., LINSOTT, I.R., PARKER, J.W., PROTOPAPA, S., SINGER, K.N., SPENCER, J.R., STERN, S.A., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., AND YOUNG, L.A. (2015) Pluto and Charon color light curves from New Horizons on approach. *Bull. Amer. Astron. Soc.* **47**, 200.08 (Abstract).
- ENNICO, K., PARKER, A., HOWETT, C.A.J., OLKIN, C.B., SPENCER, J.R., GRUNDY, W.M., REUTER, D.E., CRUIKSHANK, D.P., BINZEL, R.P., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SURFACE COMPOSITION TEAM. (2016) Hemispherical Pluto and Charon color composition from New Horizons. *Lunar & Planetary Sci.* **47**, 1775 (Abstract).
- ENRIGHT, L. (2006) New Horizons: mission to Pluto, Charon, and beyond; Launch of long-awaited project to study the outer solar system. *Jour. Roy. Astron. Soc. Canada* **100**, no. 2, 73–74.
- EROSHKIN, G.I. AND PASHKEVICH, V.V. (2010) On the geodetic rotation of the major planets, Pluto, the Moon and the Sun. *Publ. Astron. Obs. Belgrade* **90**, 33–36.
- ERWIN, J., TUCKER, O.J., AND JOHNSON, R. (2010) Hybrid fluid model with analytic/DSMC thermal escape in Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **42**, 999 (Abstract).
- ERWIN, J., TUCKER, O.J., AND JOHNSON, R. (2011) A combined fluid and kinetic model of Pluto’s extended exosphere. *EPSC Abstracts* **6**, 652 (Abstract).
- ERWIN, J., JOHNSON, R., STROBEL, D., ZHU, X., AND TUCKER, O.J. (2012) Hybrid model of molecular escape from Pluto’s highly extended atmosphere. *Bull. Amer. Astron. Soc.* **44**, 304.05 (Abstract).
- ERWIN, J., JOHNSON, R.E., STROBEL, D.F., AND ZHU, X. (2013) Hybrid model of Pluto’s full atmosphere. *Bull. Amer. Astron. Soc.* **45**, 404.05 (Abstract).
- ERWIN, J., TUCKER, O.J., AND JOHNSON, R.E. (2013) Hybrid fluid/kinetic modeling of Pluto’s escaping atmosphere. *Icarus* **226**, 375–384.
- ERWIN, J., KOSKINEN, T.T., AND YELLE, R.V. (2015) Radiative equilibrium and escape of Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **47**, 210.17 (Abstract).
- ERWIN, J.T. (2019) Atmospheric escape. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7048 (Abstract).
- ESCALANTE, F.J. (1969) La ley Titius-Bode y el probable planeta transplutoniano. *El Universo* **23**, 46–48.
- ESCLANGON, M.E., DE GRANDCHAMP, R., CANAVAGGIA, R., MINEUR, H., BARBIER, D., BAADE, W., SHAPLEY, H., LEUSCHNER, A.O., BOWER, E.C., WHIPPLE, F.L., AND MEYER, W.F. (1930) Object Lowell Observatory. *IAU Circular No. 268*.
- ESCLANGON, E. (1930) Sur le nouveau corps céleste découvert à l’Observatoire Lowell. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 834–836.
- ESCLANGON, E. (1930) Sur la position du corps céleste actuellement supposé planète transneptunienne. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 857.
- ESCLANGON, E. (1930) Sur la position du corps céleste supposé planète transneptunienne. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 957–958.
- ESCLANGON, E. (1930) Sur la détermination de la position et des éléments d’une planète ou comète éloignée. Application au corps céleste Lowell. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 981–985.
- ESCLANGON, E. (1930) Sur la détermination de la position et des éléments d’un astre (planète ou comète) par trois observations correspondant à un petit arc de l’orbite. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 1085–1089.
- ESCLANGON, E. (1930) Sur la détermination de l’orbite d’un astre (planète ou comète) par trois observations, en tenant compte des perturbations exercées par d’autres planètes. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 1469–1472.

- ESCLANGON, E. (1930) Nouvelles observations de la planète transneptunienne et nouvelle détermination de son orbite. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **191**, 629–631.
- ESCLANGON, E. (1930) Remarques au sujet de la Note précédente. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **191**, 1381–1382.
- ESHLEMAN, V.R. (1989) Pluto's atmosphere: models based on refraction, inversion, and vapor-pressure equilibrium. *Icarus* **80**, 439–443.
- ESHLEMAN, V.R. (1996) Analytic models of planetary atmospheres: occultation transform pairs. *Icarus* **123**, 56–62.
- ESHLEMAN, V.R., GURROLA, E.M., LINSKOTT, I.R., AND TYKER, G.L. (1993) Pluto and Charon occultation experiments. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- EVANS, D. (2002) The 'road' to Pluto. *Aviation Week & Space Technology* **156**, no. 12, 9.
- EWART, S. (2000) Pluto in a 4¹/₂-inch scope. *Sky and Tel.* **100**, no. 2, 14 (Letter to editor).
- EWING, A. (1964) Pluto theories crumble. *Sci. NewsLetter* **86**, 213.
- FAHERTY, J.K., KUCHNER, M., SCHNEIDER, A., MEISNER, A., GAGNÉ, J., FILIPPAZZO, J., TROUILLE, L., BACKYARD WORLDS: PLANET 9 COLLABORATION, AND FAHERTY, J. (2018) The Backyard Worlds: Planet 9 Citizen Science Project. *Bull. Amer. Astron. Soc.* **50**, 158.14 (Abstract).
- FAIRÉN, A.G. (2005) What should we call Pluto? *Science* **310**, 53–54 (Letter to editor).
- FAN, S., GAO, P., LIU, C., AND YUNG, Y. (2018) Retrieval of haze properties in Pluto's atmosphere from New Horizons observations.. *Bull. Amer. Astron. Soc.* **50**, 502.03 (Abstract).
- FAN, S., GAO, P., ZHANG, X., KUTSOP, N., LIU, C., HAYES, A., AND YUNG, Y. (2019) Global retrieval of Pluto's haze. *ESPC–DPS Joint Meeting* **13**, 724F (Abstract).
- FAN, S., GAO, P., ZHANG, X., ADAMS, D., KUTSOP, N., BIERSON, C., LIU, C., YOUNG, L., CHENG, A., AND YUNG, Y. (2020) Haze in Pluto's middle and lower atmosphere. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.06 (Abstract).
- FAN, S., GAO, P., ZHANG, X., ADAMS, D.J., KUTSOP, N.W., BIERSON, C.J., LIU, C., YANG, J., YOUNG, L.A., CHENG, A.F., AND YUNG, Y.L. (2022) A bimodal distribution of haze in Pluto's atmosphere. *Nature Communications* **13**, 240.
- FARAHANI, F.A., PORO, A., REZAAEE, M., HADIZADEH, M., NAJAFI KODINI, F., SEIFI GARGARI, M., AND MOSAVAT, F. (2020) Study of Pluto's atmosphere based on 2020 stellar occultation light curve results. Submitted to *European Physical Journal Plus*
- FARINELLA, P., MILANI, A., NOBILI, A.M., AND VALSECCHI, G.B. (1979) Tidal evolution and the Pluto–Charon system. *The Moon and the Planets* **20**, 415–421.
- FARINELLA, P., MILANI, A., AND NOBILI, A.M. (1980) Some remarks on the capture of Triton and the origin of Pluto. *Icarus* **44**, 810–812.
- FARQUHAR, R. AND STERN, S.A. (1990) Pushing back the frontier: a mission to the Pluto–Charon system. *Planetary Report* **10**, no. 4, 18–23.
- FAUGUEROLLES, C., MORIZET, Y., LE MENN, E., AND TOBIE, G. (2019) Experimental investigations of the N₂ production from NH₃-bearing hydrothermal fluids in Titan and other large icy worlds. *ESPC–DPS Joint Meeting* **13**, 418F (Abstract).
- FAYET, G. (1931) Proximities d'orbites cométaires et de l'orbite de Pluton. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **192**, 1362–1364.
- FAYET, G. (1931) Les orbites des planètes Neptune et Pluton. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **193**, 144–146.

- FAYOLLE, M., QUIRICO, E., SCHMITT, B., JOVANOVIC, L., GAUTIER, T., CARRASCO, N., GRUNDY, W., VUITTON, V., POCH, O., GABASOVA, L., PROTOPAPA, S., AND YOUNG, L. (2019) Testing tholins as analogues of the dark reddish material covering the Cthulhu region. *ESPC–DPS Joint Meeting* **13**, 876F (Abstract).
- FAYOLLE, M., QUIRICO, E., SCHMITT, B., JOVANOVIC, L., GAUTIER, T., CARRASCO, N., GRUNDY, W., VUITTON, V., POCH, O., PROTOPAPA, S., YOUNG, L., CRUIKSHANK, D., DALLE ORE, C., BERTRAND, T., STERN, A., AND THE NEW HORIZONS SURFACE COMPOSITION SCIENCE THEME TEAM. (2021) Testing tholins as analogues of the dark reddish material covering the Cthulhu region. *Icarus* **367**, 114574.
- FEARN, D.G. (1995) The impact of ion propulsion on high-energy interplanetary missions. *Acta Astron.* **37**, 203–214.
- FEARN, D.G. (2008) “Application of ion thrusters to high-thrust, high-specific-impulse nuclear electric missions.” In *Nuclear Space Power and Propulsion Systems*, ed. C. Bruno (AIAA), pp. 53–126.
- FEARN, D.G. (2000) “The possible application of ion propulsion to precursor interstellar missions.” Paper given at *36th AIAA/SAE/ASME/ASEE Joint Propulsion Conference*, Las Vegas, NVAIAA paper #2000-3415.
- FEDER, T. (2000) Pluto mission falls victim to climbing costs. *Physics Today* **53**, no. 11, 45–46.
- FEDER, T. (2002) Pluto power. *Physics Today* **55**, no. 1, 26.
- FEDOTOV, G.G., KANSTANTINOV, M.S., LATYSHEV, L.A., PETUKHOV, V.G., AND POPOV, G.A. (1995) Application of stationary plasma thrusters M100-M290 to Pluto fast flyby. *Space Technology* **15**, no. 6, 387–389.
- FEGLEY, JR., B.R. (1999) Chemistry of the outer solar nebula: implications for the composition of Pluto, Kuiper Belt Objects, and other volatile-rich bodies. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- FEIJTH, H. (1980) De absolute helderheid van Pluto. *Zenit* **7e**, 503.
- FELDMAN, P.D., WEAVER, H.A., RETHERFORD, K.D., GLADSTONE, G.R., STROBEL, D.F., STERN, S.A. (2008) FUSE observations of Jovian aurora at the time of the New Horizons flyby. *AGU Fall Meeting Abstracts* **SM41B**, 1664 (Abstract).
- FERRANTE R.F., HUDSON, R.L., AND MOORE, M.H. (2002) Spectroscopic studies of N₂-rich ices relevant to Triton and Pluto. *Abstr. Papers Am. Chem. Soc.* **224**, 013-Phys Part 2, Aug 18 2002 (Abstract).
- FERNÁNDEZ, J.A. (1987) El origen del sistema Plutón–Carón. *Bol. Asoc. Argentina Astron.* **33**, 355–360.
- FERNANDEZ, J.A. (2018) The Transneptunian Belt. Past, present and future. *Bull. Amer. Astron. Soc.* **50**, 208.01 (Abstract).
- FERNÁNDEZ, J. (2020) “Introduction: The Trans-Neptunian zone: past, present and future.” In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds.), 1–22.
- FERRARI, A.J. AND BILLS, B.C. (1979) “Planetary geodesy.” *Rev. Geophys. Spa. Phys.* **17**, 1663–1677.
- FERRELL, C.L., STERN, S.A., ANDERSON, R.S., BERTRAND, T., SINGER, K.N., YOUNG, L., AND HOOVER, R. (2020) Characterization and analysis of dune fields on Sputnik Planitia. *Bull. Amer. Astron. Soc.* **52**, no. 6, 105.03 (Abstract).
- FERRON, K. (2015) Featured video: “Tour of the Solar System: Pluto and the Kuiper Belt.” *Astronomy* **43**, no. 11, 23.
- FERZAN, K.F. (2010) Book review: *The Pluto files: the rise and fall of America’s favorite planet*. by N. deGrasse Tyson, W.W. Norton, New York, 194 pp. *Michigan Law Review* **108**, no. 6, 1011–1029.
- FESTOU, M.C., STERN, S.A., WEINTRAUB, D.A., AND THOLEN, D.J. (1993) Evidence for low temperature surface units on Pluto from millimeter-wave thermal emission measurements. *Bull. Amer. Astron. Soc.* **25**, 1129 (Abstract).

- FEYERABEND, M., LIUZZO, L., SIMON, S., AND MOTSCHMANN, U. (2017) A three-dimensional model of Pluto’s interaction with the solar wind during the New Horizons encounter. *Jour. Geophys. Res. Physics* **122**, no. 10, 10,356–10,368.
- FEYERABEND, M., SIMON, S., LIUZZO, L., MOTSCHMANN, U., AND EXNER, W. (2018) Hybrid simulations of Pluto’s plasma interaction. *AGU Fall Meeting Abstracts* **P51H**, 2966 (Abstract).
- FIELD, G. (1982) “Three unanswered questions in astronomy” In *Revealing the universe: prediction and proof in astronomy* (MIT Press, Cambridge, MA), 207–232.
- FIELD, G. (1982) Are there more than nine planets in the universe? *Mercury* **11**, 42–46.
- FIELD, G.P. (1962) Pluto on my mind. *Galaxy* **21**, no. 2, 78–82.
- FIENBERG, R.T. (1991) Hubble’s agony and ecstasy. *Sky and Tel.* **81**, 14–20.
- FIENBERG, R.T. (2001) Unfinished business. *Sky and Tel.* **101**, no. 2, 8.
- FIENBERG, R.T. (2006) Pluto doesn’t care. *Sky and Tel.* **112**, no. 11, 34.
- FIENBERG, R.T. (2007) Pluto on my mind. *Sky and Tel.* **114**, no. 1, 8.
- FIENGA, A., DERAM, P., VISWANATHAN, V., DI RUSCIO, A., BERNUS, L., DURANTE, D., GASTINEAU, M., AND LASKAR, J. (2019) INPOP19a planetary ephemerides. *Notes Scientifiques et Techniques de l’Institut de mécanique céleste.* **109**, 1–35.
- FIERRO, J. (1993) The fate of Pluto during the Sun’s planetary nebula phase. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- FINK, U., SMITH, B.A., BENNER, D.C., JOHNSON, J.R., REITSEMA, H.J., AND WESTPHAL, J.A. (1980) Detection of a CH₄ atmosphere on Pluto. *Icarus* **44**, 62–71.
- FINK, U. (1981) Snowballs at the outer limits I: The methane atmosphere of Pluto. *Sky and Tel.* **62**, 315–316.
- FINK, U. (1981) Snowballs at the outer limits II: No methane atmosphere on Triton. *Sky and Tel.* **62**, 316.
- FINK, U. AND IP. W. (1983) Die sonnenfernen Planeten: Uranus, Neptun und Pluto. *Physik in unserer Zeit* **14**, no. 6, 170–186.
- FINK, U. AND DISANTI, M.A. (1987) The separate spectra of Pluto and its satellite Charon. *Bull. Amer. Astron. Soc.* **19**, 859 (Abstract).
- FINK, U. AND DISANTI, M.A. (1988) The separate spectra of Pluto and its satellite Charon. *Astron. Jour.* **95**, 229–236.
- FINK, U. (1987) Planetary spectroscopy. *Reports of Planetary Astronomy—1986 NASA Technical Memorandum 100776*, 29–30 (Abstract).
- FINK, U. (1988) The separate spectra of Pluto and its satellites [sic] Charon. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 179 (Abstract).
- FINK, U. AND CRUIKSHANK, D. (1988) Pluto’s atmosphere. *Sky and Tel.* **60**, 483.
- FINK, U. (1988) Planetary spectroscopy. *Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 43–44 (Abstract).
- FINK, U. (1991) Planetary spectroscopy. *Reports of Planetary Astronomy—1991 NASA Technical Memorandum 4329*, 43–44 (Abstract).
- FINK, U., LOW, F., HUBBARD, W., RIEKE, M., RIEKE, G., MUMMA, M., NOZETTE, S., NEUKUM, G., HAMMEL, H., DISANTI, M., BUIE, M., AND HOFFMAN, A. (1993) “Design concept for an IR Mapping Spectrometer for the Pluto Fast Flyby Mission.” In *Lunar and Planetary Institute Workshop on Advanced Technologies for Planetary Instruments. Part 1.* (Houston, TX, LPI), 8–9.
- FISCHER, C. (1990) The planetary orbits—a chaotic system? *Sterne und Weltram* **29**, 28–31.
- FISH, JR., F.F. (1967) Angular momenta of the planets. *Icarus* **7**, 251–256.
- FISHER, C. (1930) The new planet: a dramatic discovery. *Natural History* **30**, 242–252.

- FISHMAN, B. (1992) Out of this world. *Aviation Week & Space Technology* **137**, no. 16, 15.
- FIX, J.D., NEFF, J.S., AND KELSEY, L.A. (1970) Spectrophotometry of Pluto. *Bull. Amer. Astron. Soc.* **2**, 314 (Abstract).
- FIX, J.D., NEFF, J.S., AND KELSEY, L.A. (1970) Spectrophotometry of Pluto. *Astron. Jour.* **75**, 895–896.
- FIX, J.D. (1972) Comments on the interior of Pluto. *Icarus* **16**, 569–570.
- FLAM, F. (1991) Lost fossil of the Oort Cloud? *Science* **252**, 1489.
- FLAMMARION, C. (1884) ??? *L’Astronomie* ???, 660.
- FLAMMARION, C. (1890) Trans-Neptunian planet. *Popular Astron.* ???, 601.
- FLAMMARION, C. (1907) “The planet Neptune and the frontiers of the solar domain.” In *Popular Astronomy, a general description of the heavens* (tr. J.E. Gore, New York, Appelton), 471–472.
- FLAMMARION, C. (1909) La planète transneptunienne et les comètes périodiques. *L’Astronomie* **23**, 249–258.
- FLAMMARION, C. (1916) Percival Lowell. *L’Astronomie* **30**, 422–423 507.
- FLAMMARION, C. (1930) Photographies de la planète transneptunienne Pluton. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **191**, 653.
- FLAMMARION, C. (1930) La transneptunienne. *L’Astronomie* **44**, 231–232.
- FLAMMARION, C. (1930) La planète Pluton. *L’Astronomie* **44**, 435–436.
- FLAMMARION, C. (1931) La masse de Pluton. *L’Astronomie* **45**, 173.
- FLAMSTEED, S. (1992) Planets by the carload. *Discover* **13**, no. 2, 16.
- FLANDRO, G.A. (1966) Fast reconnaissance missions to the outer solar system utilizing energy derived from the gravitational field of Jupiter. *Astronautica Acta* **12**, 329–337.
- FLANDRO, G.A. (1968) “Solar electric low thrust missions to Jupiter with swingby continuation to the outer planets.” Paper given at *6th Aerospace Sciences Meeting*, New York, NY.
- FLANDRO, G.A. (1968) Solar electric low-thrust missions to Jupiter with swingby continuation to the outer planets. *Jour. Spacecraft and Rockets* **5**, no. 9, 1029–1033.
- FLANIGAN, S.H., ROGERS, G.D., GUO, Y., KIRK, M.N., WEAVER, H.A., OWEN, W.M., JACKMAN, C.D., BAUMAN, J., PELLETIER, F., NELSON, D., STANBRIDGE, D., DUMONT, P.J., WILLIAMS, B., STERN, S.A., OLKIN, CATHY B., YOUNG, L.A., AND ENNICO, K. (2016) Destination Pluto: New Horizons performance during the approach phase. *Acta Astronautica* **128**, 33–43.
- FLORENCE, D.E. (1996) “Reducing the launch cost and trip time to Pluto with aero-gravity-assist.” Paper given at *AIAA Aerospace Sciences Meeting, 34th, Reno, NV, Jan. 15-18, 1996*, AIAA Paper # 96-0901.
- FLYNN, B.C., STERN, S.A., PARKER, J.W., AND SNOWDALL, J.C. (1995) An HST archival search for small satellites of Pluto. *Bull. Amer. Astron. Soc.* **27**, 1340 (Abstract).
- FORBES, G. (1880) On comets. *Proc. Roy. Soc. Edinburgh* **10**, 427.
- FORBES, G. (1880) On an ultra-Neptunian planet. *Proc. Roy. Soc. Edinburgh* **10**, 636–637.
- FORBES, G. (1880) On comets and Ultra-Neptunian planets. *The Observatory* **3**, 439–446.
- FORBES, G. (1882) Additional note on an ultra-Neptunian planet. *Proc. Roy. Soc. Edinburgh* **11**, 91–92.
- FORBES, G. (1901) Evidence of the existence of an ultra-Neptunian planet. *Proc. Roy. Soc. Edinburgh* **23**, 370–374.
- FORBES, G. (1901) Evidence of the existence of an ultra-Neptunian planet. *Nature* **64**, 524.
- FORBES, G. (1909) La planète transneptunienne. *L’Astronomie* **23**, 349–356.
- FORGET, F., VANGVICHITH, M., AND BERTRAND, T. (2014) What will Pluto’s atmosphere look like? Predictions from a Global Climate Model including the methane cycle. *AGU Fall Meeting Abstracts* **P31E**, 08 (Abstract).

- FORGET, F., BERTRAND, T., VANGVICHITH, M., AND LECONTE, J. (2015) A 3D Global climate model of the Pluto atmosphere to interpret New Horizons observations, including the N₂, CH₄ and CO cycles and the formation of organic hazes. *Bull. Amer. Astron. Soc.* **47**, 105.12 (Abstract).
- FORGET, F., BERTRAND, T., VANGVICHITH, M., LECONTE, J., MILLOUR, E., AND LELLOUCH, E. (2017) A post-New Horizons global climate model of Pluto including the N₂, CH₄, and CO cycles. *Icarus* **287**, 54–71.
- FORGET, F. AND TANGUY, T. (2019) Modeling nitrogen and methane ices and glaciers on Pluto over diurnal, seasonal, and astronomical timescales. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7003 (Abstract).
- FORNASIER, S., BARUCCI, M.A., AND DALLE ORE, C. (2019) The Kuiper Belt as the context for Pluto. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7012 (Abstract).
- FORTIER, E. (1999) Amateur of the century. *Sky and Tel.* **97**, no .5, 10.
- FOSS, A.P.O., SHAWE-TAYLOR, J.S., AND WHITWORTH, D.P.D. (1972) Physical sciences: search for a trans-Plutonian planet. *Nature* **239**, 266.
- FOUNTAIN, E.O. (1932) A limit to the possible distance of major planets. *Jour. Brit. Astron. Assoc.* **32**, 297–299.
- FOUNTAIN, G.H., KUSNIERKIEWICZ, D.Y., HERSMAN, C.B., HERDER, T.S., COUGHLIN, T.B., GIBSON, W.C., CLANCY, D.A., DEBOY, C.C., HILL, T.A., KINNISON, J.D., MEHOKE, D.S., OTTMAN, G.K., ROGERS, G.D., STERN, S.A., STRATTON, J.M., VERNON, S.R., AND WILLIAMS, S.P. (2008) The New Horizons Spacecraft. *Spa. Sci. Rev.* **23–47**, .
- FOUST, J.A., OLKIN, C.B., ELLIOT, J.L., DUNHAM, E.W., AND McDONALD, J.S. (1995) The Charon/Pluto Mass Ratio from center-of-light astrometry *Bull. Amer. Astron. Soc.* **27**, 1100 (Abstract).
- FOUST, J.A., ELLIOT, J.L., OLKIN, C.B., McDONALD, J.S., DUNHAM, E.W., R.P.S. STONE, McDONALD, J.S., AND STONE, R.C. (1996) The Charon/Pluto mass ratio from center-of-light astrometry. *Icarus* **126**, 362–372.
- FOX, P. (1931) Special issue containing reports if the Fourth Cleveland Meeting of the American Association for the Advancement of Science and Associated Societies. Section D. Astronomy. *Science* **73**, no. 1884, 152..
- FOX, P. (1931) The American Association for the Advancement of Science: general reports of the First Pasadena Meeting of the American Association for the Advancement of Science and Associated Societies. Section D. Astronomy. *Science* **74**, no. 1909, 113–114..
- FRAKNOI, A. (1980) Astronomy books of the past year: *Planets X and Pluto*, by W. Hoyt *Mercury* **9**, 20.
- FRANK, A. (1998) Crack in the clockwork. *Astronomy* **26**, no. 5, 54–59.
- FRASER, D. AND MANNING, L.A. (1966) “Guidance and navigation requirements for missions to the outer planets.” Paper given at *8th Aerospace Sciences Meeting*, West Germany.
- FRASER, W.C., BROWN, M.E., AND GLASS, F. (2015) The Hubble Wide Field Camera 3 test of surfaces in the outer solar system: spectral variation on Kuiper Belt Objects. *Astrophys. Jour.* **804**, 31–41.
- FRASER, W.C., BANNISTER, M.T., MARSSET, M., PIKE, R.E., SCHWAMB, M.E., KAVELAARS, J.J., BENECCHI, S.D., DELSANTI, A., LEHNER, M.J., WANG, S.Y., THIROUIN, A., GUILBERT-LEPOUTRE, A., PEIXINHO, N., AND VERNAZZA, P. (2016) Col-OSSOS: A new ugrJ taxonomy for trans-Neptunian objects. *Bull. Amer. Astron. Soc.* **48**, no. 7, 19–20 (Abstract).
- FRASER, W., BANNISTER, M., PIKE R., MARSSET, M., SCHWAMB, M., KAVELAARS, J.J., LACERDA, P., NESVORNÝ, D., VOLK, K., DELSANTI, A., NENECCHI, S., LEHNER, M., NOLL, K., GLADMAN, B., PETIT, J.M., GWYN, S., CHEN, Y.T., WANG, S.Y., ALEXANDERSEN, M.M BURDULLIS, T., SHEPPARD, S., AND TRUJILLO, C. (2017) All planetsimals born near the Kuiper Belt formed as binaries. *Asteroids, Comets, and Meteorites* **2017**, 207–208 (Abstract).

- FRASER, W.F., PORTER, S.B., LIN, H.W., SPENCER, J.R., KAVELAARS, J.J., VERBISCHER, A.J., YOSHIDA, F., ITO, T., GERDES, D., NAPIER, K., BENECCHI, S.D., STERN, S.A., GWYN, S., WEAVER, H.A., BUIE, M., PELTIER, L., SINGER, K.N., NEW HORIZONS LORRI TEAM, AND NEW HORIZONS GGI SCIENCE TEAM. (2022) A successful machine learning approach to detecting Kuiper Belt Objects for NASA’s New Horizons Extended Mission. *Lunar & Planetary Sci.* **53**, 1230 (Abstract).
- FRASER, W.C., PORTER, S.B., LIN, H.W., NAPIER, K., SPENCER, R.J., KAVELAARS, J.J., VERBISCHER, A.J., YOSHIDA, F., TERAI, T., ITO, T., GERDES, D., BENECCHI, S.D., STERN, S.A., GWYN, S., BUIE, M.W., PELTIER, L., SINGER, K.N., BRANDY, P.C., NEW HORIZONS LORRI TEAM, AND NEW HORIZONS GGI SCIENCE TEAM. (2023) Approaches to detecting Kuiper Belt Objects for NASA’s New Horizons Extended Mission: digging into the noise. *54* **2806, 2361**, (Abstract).
- FRATERNALE, F., ADHIKARI, L., FICHTNER, H., KIM, T.K., KLEIMANN, J., OUGHTON, S. POGORELOV, N.V., ROYTERSHTYEN, V., SMITH, C.W., USMANOV, A.V., ZANK, G.P., AND ZHAO, L. (2022) Turbulence in the outer heliosphere. *Spa. Sci. Rev.* **218**, no. 6, 50.
- FRATERNALE, F., POGORELOV, N., HEERIKHUISEN, J., AND BERA, R. (2022) Kinetic transport of interstellar helium atoms into the heliosphere: puzzles and answers. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, D1.4-0015-22*, (Abstract).
- FREEDMAN, D.H. (1990) Gravity’s revenge. *Discover 1990* **11**, no. 5, 54–60.
- FREEDMAN, D.H. (1994) Mooning over NASA’s future. *Discover* **15**, no. 7, 68–79.
- FREEDMAN, D.H. (1998) When is a planet not a planet? *The Atlantic Monthly* **281**, no. 2, 22.
- FRENCH, R.G., TOIGO, A.D., SICARDY, B., GUZEWICH, S.D., GIERASCH, P.J., AND RICHARDSON, M.I. (2013) Seasonal variations in Pluto’s atmospheric tides. *AGU Fall Meeting P21B*, 1730 (Abstract).
- FRENCH, R.G., TOIGO, A.D., GIERASCH, P.J., HANSEN, C.J., YOUNG, L.A., SICARDY, B., DIAS-OLIVEIRA, ALEX, AND GUZEWICH, S.D. (2015) Seasonal variations in Pluto’s atmospheric tides. *Icarus* **246**, 247–267.
- FREUND, F.T., SORNETTE, J., STOCKBURGER, C., KELLER, C.T., GRAY, A., AND CRUIKSHANK, D.P. (2021) Stress-activated electric currents in icy planetary bodies: H₂O₂-doped H₂O ices. *Icarus* **358**, 114157.
- FREVERT, F. (1976) Beobachtung von Pluto. *Sterne und Weltram* **15**, 105.
- FREVERT, F. (1976) Beobachtung von Pluto. *Sterne und Weltram* **15**, 330.
- FREVERT, F. (1976) Nochmals: Plutobeobachtung. *Sterne und Weltram* **15**, 332.
- FREVERT, F. (1977) Beobachtung von Pluto. *Sterne und Weltram* **16**, 102.
- FREVERT, F. (1978) Beobachtung von Pluto. *Sterne und Weltram* **17**, 74.
- FREY, H. AND LOWMAN, P.D. (1974) Studies of the major planet satellite systems. *NASA Technical Memorandum 70642*, 57 pp.
- FREY, S. (2007) More pleas for Pluto. *Sky and Tel.* **113**, no. 1, 12 (Letter to editor).
- FRIEDLANDER, A. AND NARIN, F. (1966) “Low-thrust trajectory and payload analysis for solar system exploration.” Paper given at *3rd and 4th Aerospace Sciences Meeting*, New York, NY.
- FRIEDMAN, L.D., HAMILTON, T.W., AND STANTON, R.H. (1972) “Estimating trajectory correction requirements for the Outer Planets Grand Tour missions.” Paper given at *AIAA 10th Aerospace Sciences Meeting*, San Diego, CA, Jan. 17–19.
- FRIEDMAN, L.D., HAMILTON, T.W., AND STANTON, R.H. (1972) Estimating trajectory correction requirements for multiple Outer Planets missions. *Jour. Spacecraft and Rockets* **9**, no. 12, 909–914.
- FRIEDMAN, L.D. (1992) World Watch. *Planetary Report* **12**, no. 6, 24.
- FRIEDMAN, L.D. (1994) The Planetary Society advances cooperation in Pluto exploration. *Planetary Report* **14**, no. 5, 10–11.

- FRIEDMAN, L.D. (1994) Two for the road: new hope for exploration in space. *Planetary Report* **14**, no. 5, 14–15.
- FRYE, P.E. AND MCCLANAHAN, J.A. (1993) “Solar thermal propulsion transfer stage for the first Pluto mission.” Paper given at *29th AIAA/SAE/ASME/ASEE Joint Propulsion Conference, Monterey, CA, June 28-30, 1993*, AIAA Paper no. A93-50310.
- FUENTES, C. AND HOLMAN, M.J. (2006) Pluto II (Nix) and Pluto III (Hydra). *Central Bureau Electronic Telegrams, No. 602*.
- FUENTES, C., HOLMAN, M.J., GAUDI, B.S., BARRANCO, J.A., AND TRILLING, D.E. (2006) Ground-based imaging of Pluto’s satellites, Hydra and Nix. *Bull. Amer. Astron. Soc.* **38**, 542 (Abstract).
- FUKAZAWA, H., HOSHIKAWA, A., ISHII, Y., CHAKOUMAKOS, B.C., AND FERNANDEZ-BACA, J.A. (2006) Existence of ferroelectric ice in the universe. *Astron. Jour.* **652**, L57–L60.
- FUKAZAWA, H., OGINO, T., WALKER, R.J., AND TANAKA, T. (2009) On the importance of solar wind observations upstream of Jupiter’s magnetosphere. *AGU Fall Meeting Abstracts SM23B*, 1617 (Abstract).
- FULVIO, D., GUGLIELMINO, S., FAVONE, T., AND PALUMBO, M.E. (2010) Near-infrared laboratory spectra of H₂O trapped in N₂, CH₄, and CO: hints for trans-Neptunian objects’ observations. *Astron. Astrophys.* **511**, A62.
- GABASOVA, L.R., TOBIE, G., AND CHOBLET, G. (2018) Compaction-driven evolution of Pluto’s rocky core: implications for water–rock interactions. *Lunar & Planetary Sci.* **49**, 2512 (Abstract).
- GABASOVA, L.R., TOBIE, G., AND CHOBLET, G. (2018) “Compaction-driven evolution of Pluto’s rocky core: implications for water–rock interactions.” Paper given at *Proceedings of the conference on Ocean Worlds*, 21–23 May 2018, Houston, TX6040.
- GABASOVA, L.R., SCHMITT, B., GRUNDY, W., OLKIN, C.B., SPENCER, J.R., YOUNG, L.A., ENNICO, K., WEAVER, H.A., STERN, S.A., AND NEW HORIZONS COMPOSITION TEAM. (2019) Global compositional cartography of Pluto from LEISA data. *Pluto System After New Horizons*, LPI Contribution No. 2133, Lauri, MD, 2019 July 14–18, 7029 (Abstract).
- GABASOVA, L.R., OLKIN, C.B., SPENCER, J.R., PARKER, J.W., VERBISCHER, A.J., WEAVER, H.A., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM. (2019) Sketching the New Horizons 2014 MU69 flyby event. *Lunar & Planetary Sci.* **50**, 3241 (Abstract).
- GABASOVA, L.R., SCHMITT, B., GRUNDY, W., OLKIN, C.B., YOUNG, L.A., ENNICO, K., WEAVER, H.A., STERN, S.A., AND NEW HORIZONS COMPOSITION TEAM. (2019) Intensity-based registration for planetary cartography: application to New Horizons LEISA approach scans of Pluto. *Lunar & Planetary Sci.* **50**, 2638 (Abstract).
- GABASOVA, L., BLANCHARD, N.K., SCHMITT, B., GRUNDY, W.M., OLKIN, C.B., SPENCER, J.R., YOUNG, L.A., ENNICO SMITH, K., WEAVER, H.A., AND STERN, S.A. (2019) Pluto surface composition from spectral model inversion with metaheuristics. *ESPC-DPS Joint Meeting* **13**, 968G (Abstract).
- GABASOVA, L.R., SCHMITT, B., GRUNDY, W., BERTRAND, T., OLKIN, C.B., SPENCER, J.R., YOUNG, L.A., ENNICO, K., WEAVER, H.A., STERN, S.A., AND THE NEW HORIZONS COMPOSITION TEAM. (2021) Global compositional cartography of Pluto from intensity-based registration of LEISA data. *Icarus* **356**, 113833.
- GAILLOT, J. (1909) Tables nouvelles des mouvements d’Uranus et de Neptune. *Annales de l’Observatoire de Paris* **28**.
- GAILLOT, J. (1909) Contributions à la recherche des planètes Ultra-neptunniennes. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **148**, 754–758.
- GAILLOT, J. (1910) Les planètes transneptuniennes. *L’Astronomie* **24**, 52.
- GAJDOS, S. AND VILAGI, J. (2006) Pluto Observations [118 Modra]. *Minor Planet Circular* **57110**.

- GAKIS, D. AND GOURGOULIATOS, K.N. (2022) Orbit determination of the moons of the Pluto–Charon system. *Cel. Mech. & Dyn. Astron.* **144**no. 2, 1–18, in press.
- GAKIS, D. AND GOURGOULIATOS, K. (2022) A study of the moon orbits in the Pluto–Charon system. *44th COSPAR Scientific Assembly Held 16–24 July, 2022, Athens, Greece, B1.2-0004-22*, (Abstract).
- GALLAGHER, R.M., FERRANTE, R.F., AND MOORE, M.H. (2001) Radiation-induced conversions of hydrocarbons in environments relevant to Pluto. *Abstr. Papers Am. Chem. Soc.* **221**, 353-Phys Part 2, Apr 1 2001. (Abstract).
- GALLARDO, T. AND FERRAZ–MELLO, S. (1996) Time–frequency analysis for resonant motion and results for Pluto. *Rev. Mex. Astron. Astrophys. Série de Conferencias* **4**, 113.
- GALLARDO, T. AND FERRAZ–MELLO, S. (1997) Understanding libration via time–frequency analysis. *Astron. Jour.* **113**, 863–870.
- GALLARDO, T. AND FERRAZ–MELLO, S. (1998) Dynamics in the exterior 2:3 resonance with Neptune. *Planetary and Spa. Sci.* **46**, 945–965.
- GANGESTAD, J. (2005) “An occultation of C313.2 by Charon.” Paper given at *Keck Northeast Astronomy Consortium, 16th Annual Undergraduate Symposium on Research in Astronomy, held at Middlebury College Middlebury, VT. p.29*, .
- GAO, C.Y. (2002) Escape and state of the Pluto atmosphere. *Comm. in theoretical physics* **38**, no. 1, 125–127.
- GAO, P., FAN, S. WONG, M.S., LIANG, M.C., SHIA, R.L., KAMMER, J.A., YUNG, Y.K., SUMMERS, M.E., GLADSTONE, G.R., YOUNG, L.A., OLKIN, C.B., ENNICO, K., WEAVER, H.A., STERN, S.A., AND NEW HORIZONS TEAM. (2017) Constraints on the microphysics of Pluto’s photochemical haze from /sl New Horizons observations. *Icarus* **287**, 116–123.
- GAO, P. (2019) Applying an Earth-based aerosol microphysics model to other solar system worlds and beyond. *AGU Fall Meeting Abstracts* **P33A**, 01 (Abstract).
- GARFINKEL, B. (1982) On resonance in celestial mechanics: a survey. *Cel. Mech.* **28**, 275–290.
- GASLAC GALLARDO, D.M., GIULIATTI WINTER, S.M., AND PIRES, P. (2019) Pluto system: external stable regions. *Mon. Not. Roy. Astron. Soc.* **484**, no. 4, 4574–4590.
- GATLEY, I. (1982) Distant planetary satellites more accurately measured. *Nature* **300**, 406.
- GARR, D. (1987) Pluto the planetoid. *Omni* **9**, no. 10, 25.
- GARNOWSKY, A. (1902) Sur l’existence de quatre planètes transneptunienne. *L’Astronomie* **16**, 484.
- GASLAC GALLARDO, D.M. GUILIATTI WINTER, S.M., AND PIRES, P. (2019) Pluto system: external stable regions. *Mon. Not. Roy. Astron. Soc.* **484**, no. 4, 4574–4590.
- GAUTHIER, G. (1959) Observation de Pluton avec un télescope de 320 mm. *L’Astronomie* **73**, 36.
- GAY, P.L., BAKERMAN, M., GRAZIANO, N., MURPH, S., AND REIHELD, A. (2017) Emission from Pluto and Charon at long wavelengths: observations using ALMA, SMA, and VLA. *Bull. Amer. Astron. Soc.* **49**, 102.02 (Abstract).
- GEBALLE, T.R., CRUIKSHANK, D.P., DALLE ORE, C., AND OWEN, T.C. (1999) A 1.9–2.5 μm spectrum of Charon. Submitted to *Icarus*.
- GEE, H. AND GASIC, G. (1993) Vital signs. *Nature* **362**, 406.
- GEHRELS, T. (2005) Dual role for Pluto in the great planetary debate. *Nature* **436**, 1088.
- GEMMO, A., BARBIERI, C., AND BENACCHIO, L. (1993) Astrometry of the planet Pluto in the years 1969–1989. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- GEMMO, A.G. AND BARBIERI, C. (1994) Astrometry of Pluto from 1969 to 1989. *Icarus* **108**, 174–179.
- GENKIN, I.L. (1976) “Laws of planetary distances” In *Dynamics of the Galaxy and extragalactic systems* (Alma-Ata, Izdatel’stvo Nauka Kazakhskoi SSR), 108–117.

- GEORGE, E., BUIE, M., AND BAGENAL, F. (2012) Photometry of Pluto at low Galactic latitudes. *Bull. Amer. Astron. Soc.* **44**, 310.04 (Abstract).
- GEORGE, E. AND BUIE, M. (2013) Changes on Pluto’s surface revealed with long timebase photometry. *Bull. Amer. Astron. Soc.* **45**, 310.08 (Abstract).
- GERAKINES, P.A., HUDSON, R.L., AND MOORE, M.H. (2014) The infrared optical constants of ethane and ethylene ices: relevance to Pluto and Triton. *Bull. Amer. Astron. Soc.* **46**, 404.08 (Abstract).
- GERAKINES, P.A., HUDSON, R.L., AND LOEFFLER, M.J. (2015) The infrared spectra and absorption intensities of amorphous ices: methane and carbon dioxide. *Bull. Amer. Astron. Soc.* **47**, 210.30 (Abstract).
- GERAKINES, P.A., QASIM, D., FRAIL, S., AND HUDSON, R.L. (2022) Radiolytic destruction of uracil in interstellar and solar system ices. *Astrobiology* **22**, no. 3, 233–241.
- GERAKINES, P., YARNALL, Y., AND HUDSON, R. (2022) Laboratory studies of ammonium salts. *Bull. Amer. Astron. Soc.* **54**, no. 6, 2022n6i134p02.
- GERASIMOV, I.A. AND MUSHAILOV, B.R. (1996) The evolution of Pluto’s orbit in the system Sun–Neptune–Pluto. *Spa. Sci. Rev.* **30**, 155.
- GERSHMAN, R. AND WALLACE, R.A. (1999) Technology needs of future planetary missions. *Acta Astron.* **45**, 329–335.
- GICLAS, H.L. (1980) History of the 13-inch photographic telescope and its use since the discovery of Pluto. *Icarus* **44**, 7–11.
- GILES, J. (2006) Glint from tenth planet dazzles astronomers. *Nature* **440**, 974–975.
- GILMORE, A. AND KILMARTIN, P. (1993) Pluto. *IAU Circular No. 5875*, 2.
- GINGERICH, O. (1959) The solar system beyond Neptune. *Sci. Amer.* **200**, no. 4, 86–100.
- GINGERICH, O. (2006) The inside story of Pluto’s demotion. *Sky and Tel.* **112**, no. 11, 34.
- GIRDIUK, A. (2015) “The improvement of the Pluto orbit using additional new data.” In *Proceedings of the Journées 2014 “Systèmes de référence spatio-temporels”: Recent developments and ...* (eds. Z. Malkin and N. Capitaine), ???.
- GIULIATTI WINTER, S.M., SFAIR, R., AND ABDALA ROSSI, G. (2008) “The effects of Nix and Hydra in a sample of particles located in the external region of Pluto–Charon binary system.” Paper given at *37th COSPAR Scientific Assembly*, 13–20 July 2008, Montréal, Canada. Abstract B04-0039-08, p. 1021.
- GIULIATTI WINTER, S.M. AND WINTER, O. (2009) Exploring S-type orbits in the Pluto–Charon binary system. *Bull. Amer. Astron. Soc.* **41**, 6.03 (Abstract).
- GIULIATTI WINTER, S.M., VIEIRA NETO, E. AND WINTER, O. (2010) Out of Plane S-type orbits in the Pluto–Charon binary system. *Bull. Amer. Astron. Soc.* **42**, 999 (Abstract).
- GIULATTI-WINTER, S.M., GUIMARÃES, A.H., AND WINTER, A.C. (2006) The phase space structure in Pluto–Charon system. *Bull. Amer. Astron. Soc.* **38**, 524 (Abstract).
- GIULATTI-WINTER, S.M., WINTER, O.C., VIEIRA NETO, E., AND SFAIR, E. (2014) A peculiar stable region around Pluto. *Mon. Not. Roy. Astron. Soc.* **439**, 3300–3307.
- GIULIATTI WINTER, S.M., WINTER, O., PIRES SANTOS, P.M., AND VIEIRA NETO, E. (2010) “Stable regions for particles in P and S-type orbits at the Pluto–Charon system.” Paper given at *38th COSPAR Scientific Assembly*, 18-15 July 2010, Bremen, Germany. Abstract B04-0023-10, 6 pp.
- GIULIATTI WINTER, S.M., WINTER, O., SFAIR, R., AND VIEIRA NETO, E. (2012) “Stable regions and the New Horizons spacecraft trajectory: inclined case.” Paper given at *39th COSPAR Scientific Assembly*, 14-22 July 2012, Mysore, India. Abstract E1.2-10-12, p. 623.
- GIULIATTI WINTER, S.M., WINTER, O.C., VIEIRA NETO, E., AND SFAIR, R. (2012) A peculiar stable region around Pluto. *Bull. Amer. Astron. Soc.* **44**, 310.03 (Abstract).

- GIULIATTI WINTER, S.M., WINTER, O.C., VIEIRA NETO, E., AND SFAIR, R. (2013) Stable regions around Pluto. *Mon. Not. Roy. Astron. Soc.* **430**, 1892–1900.
- GIULIATTI WINTER, S.M., WINTER, O.C., VIEIRA NETO, E., AND SFAIR, R. (2015) The sailboat island and the New Horizons trajectory. *Icarus* **246**, 339–344.
- GIUPPONE, C.A., RODRIGUEZ, A., MICHTCENKO, T.A., DE ALMEIDA, A.A. (2021) Past and present dynamics of the circumbinary moons in the Pluto–Charon system. *Astron. Astrophys.* **658**, A99.
- GLADMAN, B. (2000) “Does Pluto Affect the Trans-Neptunian Region?” Paper given at *Minor Bodies in the Outer Solar System: Proceedings of the ESO Workshop*, Garching, Germany, 2–5 November 1998. Edited by A. Fitzsimmons, D. Jewitt, and R.M. West. Springer-Verlag, p. 125.
- GLADMAN, B., KAVELAARS, J.J., PETIT, J.M., MORBIDELLI, A., AND HOLMAN, M.J. (2001) The structure of the Kuiper Belt: size distribution and radial extent. *Astron. Jour.* **122**, no. 2, 1051.
- GLADMAN, B. (2005) The Kuiper Belt and the solar system’s comet disk. *Science* **307**, no. 5706, 71–76.
- GLADMAN, B. (2017) Dynamical behaviour and structure in the Transneptunian region. *Asteroids, Comets, and Meteorites* **2017**, 61 (Abstract).
- GLADSTONE, RANDY, STERN, A., SLATER, D., VERSTEEG, M., DAVIS, M., RETHERFORD, K., YOUNG, L., STEFFL, A., THROOP, H., PARKER, J., WEAVER, H.A., CHENG, A., ORTON, G., CLARKE, J., NICHOLS, J., AND NEW HORIZONS SCIENCE TEAM. (2007) Jupiter’s airglow and aurora as seen from New Horizons. *Bull. Amer. Astron. Soc.* **39**, 437 (Abstract).
- GLADSTONE, G.R. (2009) Initial observations of the Moon by LRO’s Lyman Alpha Mapping Project (LAMP) Instrument. *AGU Fall Meeting Abstracts* **U22A**, 06 (Abstract).
- GLADSTONE, G.R., STERN, S.A., AND PRYOR, W.R. (2010) New Horizons Cruise Observations of Lyman Alpha from the Interplanetary Medium. *AGU Fall Meeting Abstracts* **SH21A**, 1792 (Abstract).
- GLADSTONE, G.R., STERN, S.A., AND PRYOR, W.R. (2013) “New Horizons cruise observations of Lyman- α emissions from the interplanetary medium.” In *Cross-Calibration of Far UV Spectra of Solar System Objects and the Heliosphere, ISSI Scientific Report Series, Volume 13* (Springer, New York, NY), 177–188.
- GLADSTONE, R., WONG, M.L., AND YUNG, Y.L. (2014) Pluto photochemical models for the New Horizons Flyby. *AGU Fall Meeting Abstracts* **P31E**, 07 (Abstract).
- GLADSTONE, G.R., PRYOR, W.R., AND STERN, S.A. (2015) Ly α @Pluto. *Icarus* **246**, 279–284.
- GLADSTONE, G.R., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K.A., OLKIN, C.B., CHENG, A.F., GREATHOUSE, T.K., HINSON, D.P., KAMMER, J.A., LINSKOTT, I.R., PARKER, A.H., PARKER, J.W., RETHERFORD, K.D., SCHINDHELM, E., SINGER, K.N., STEFFL, A.J., STROBEL, D.F., SUMMERS, M.E., TSANG, C.C.C., TYLER, G.L., VERSTEEG, M.H., WOODS, W.W., CUNNINGHAM, N., AND CURDT, W. (2015) New Horizons observations of the atmospheres of Pluto and Charon. *Bull. Amer. Astron. Soc.* **47**, 100.05 (Abstract).
- GLADSTONE, G.R., YUNG, Y.L., AND WONG, M.L. (2015) Pluto atmosphere photochemical models for New Horizons. *Lunar & Planetary Sci.* **46**, 3008 (Abstract).
- GLADSTONE, G.R., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., SUMMERS, M.E., STROBEL, D.F., HINSON, D.P., KAMMER, J.A., PARKER, A.H., STEFFL, A.F., LINSKOTT, I.R., PARKER, J.W., CHENG, A.F., SLATER, D.C., VERSTEEG, M.H., GREATHOUSE, T.K., RETHERFORD, K.D., THROOP, H., CUNNINGHAM, N.J., WOODS, W.W., SINGER, K.N., TSANG, C.C.C., SCHINDHELM, E., LISSE, C.M., WONG, M.L., YUNG, Y.L., ZHU, X., CURDT, W., LAVVAS, P., YOUNG, E.F., TYLER, G.L., AND THE NEW HORIZONS SCIENCE TEAM. (2016) The atmosphere of Pluto as observed by New Horizons. *Science* **351**, no. 6279, 1280.
- GLADSTONE, R. (2016) “The atmosphere of Pluto as observed by New Horizons.” Paper given at *41st COSPAR Scientific Assembly, abstracts from the meeting that was to be held 30 July–07 August at the Istanbul Congress Center (ICC), Turkey, but was cancelled. Abstract C3.2-21-16.*, .

- GLADSTONE, G.R., PRYOR, W.R., STERN, S.A., ENNICO, K., OLKIN, C.B., SPENCER, J.R., WEAVER, H.A., YOUNG, L.A., BAGENAL, F., CHENG, A.F., CUNNINGHAM, N.J., ELLIOTT, H.A., GREATHOUSE, T.K., HINSON, D.P., KAMMER, J.A., LINSKOTT, I.R., PARKER, J.W., RETHERFORD, K.D., STEFFL, A.J., STROBEL, D.F., SUMMERS, M.E., THROOP, H., VERSTEEG, M.H., DAVIS, M.W., AND THE NEW HORIZONS SCIENCE TEAM. (2018) The Lyman- α sky background as observed by New Horizons. *Geophys. Res. Letters* **45**, no. 16, 8022–8028.
- GLADSTONE, G.R., KAMMER, J.A., YUNG, Y.,L., PRYOR, W.R., AND STERN, S.A. (2019) Constraining Pluto's H and CH₄ profiles with Alice Lyman-alpha observations. *Pluto System After New Horizons*, LPI Contribution No. 2133, Lauri, MD, 2019 July 14–18, 7071 (Abstract).
- GLADSTONE, G.R. AND YOUNG, L.A. (2019) New Horizons observations of the atmosphere of Pluto. *Ann. Rev. Earth and Planetary Sciences* **47**, 119–140.
- GLADSTONE, G.R., YOUNG, L.A., STEFFL, A.J., PARKER, J.W., SUMMERS, M.E., LISSE, C.M., SPENCER, J.R., VERBISCHER, A.J., OLKIN, C.B., WEAVER, H.A., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM. (2019) Searching for a coma during the New Horizons flyby of (486958) 2014 MU69 (Ultima Thule). *Lunar & Planetary Sci.* **50**, 2886 (Abstract).
- GLADSTONE, R., YOUNG, L., STEFFL, A., PARKER, J., LISSE, C., WEAVER, H., SINGER, K., SPENCER, J., AND STERN, A. (2020) New Horizons UV observations of the interplanetary and interstellar medium. *Bull. Amer. Astron. Soc.* **52**, no. 1, 211.07 (Abstract).
- GLADSTONE, R., PRYOR, W., KAMMER, J., RETHERFORD, K., YOUNG, L., STEFFL, A., PARKER, J., LISSE, C., WEAVER, H., SINGER, K., SPENCER, J., AND STERN, A. (2020) Galactic Lyman- α background detected by New Horizons. *Bull. Amer. Astron. Soc.* **52**, no. 6, 416.03 (Abstract).
- GLADSTONE, G.R., KAMMER, J.A., ADAMS, D.J., YUNG, Y.L., PRYOR, W.R., STROBEL, D.F., YOUNG, L.A., PARKER, J.W., AND STERN, S.A. (2021) Constraints on Pluto's H and CH₄ profiles from New Horizons Alice Ly α observations. *Icarus* **356**, 113973.
- GLADSTONE, R., LISSE, C., YOUNG, L., PARKER, J., K. SINGER, K.N., SPENCER, J., WEAVER, H., AND STERN, S.A. (2021) Upper limits on the escape of volatiles from (486958) Arrokoth using New Horizons Alice Ultraviolet Spectrograph observations. *Bull. Amer. Astron. Soc.* **53**, 111.07 (Abstract).
- GLADSTONE, G.R., PRYOR, W.R., HALL, D.T., KAMMER, J.A., STROBEL, D.F., WEAVER, H.A., SPENCER, J.R., RETHERFORD, K.D., VERSTEEG, M.H., DAVIS, M.W., YOUNG, L.A., STEFFL, A.J., PARKER, J.W., LISSE, C.M., SINGER, K.N., AND STERN, S.A. (2021) New Horizons detection of the local Galactic Lyman- α background. *Astron. Jour.* **162**, no. 6, 241.
- GLADSTONE, G.R., LISSE, C.M., YOUNG, L.A., PARKER, J.W., SINGER, K.N., SPENCER, J.R., WEAVER, H.A., AND STERN, S.A. (2022) Upper limits on the escape of volatiles from (486958) Arrokoth using New Horizons Alice Ultraviolet Spectrograph observations. *Planetary Sci. Jour.* **3**, no. 5, 111.
- GLADSTONE, G.R., LISSE, C.M., YOUNG, L.A., PARKER, J.W., SINGER, K.N., SPENCER, J.R., WEAVER, H.A., AND STERN, S.A. (2022) Upper limits on the escape of volatiles from (486958) Arrokoth using New Horizons Alice Ultraviolet Spectrograph observations. *Planetary Sci. Jour.* **3**, no. 5, 111.
- GLADSTONE, R., PRYOR, W., HALL, D., KAMMER, J., STROBEL, D., WEAVER, H., SPENCER, J., PARKER, J., LAUER, T., CUNNINGHAM, N., RETHERFORD, K., VERSTEEG, M., DAVIS, M., YOUNG, L., STEFFL, A., LISSE, C., SINGER, K., AND STERN, A. (2022) The LISM FUV background observed by New Horizons. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece*, **PIR.1-0015-22**, (Abstract).
- GLEIN, C.R. AND WAITE, J.H. (2018) Primordial N₂ provides a cosmochemical explanation for the existence of Sputnik Planitia, Pluto. *Icarus* **313**, 79–92.

- GLEIN, C.R., GRUNDY, W.M., LUNINE, J.I., WONG, PROTOPAPA, S., PINILLA-ALONSO, N., STANSBERRY, J.A., HOOLER, B.J., COOK, J.C., AND SOUZA-FELICIANO, A.C. (2024) Moderate D/H ratios in methane ice on Eris and Makemake as evidence of hydrothermal or metamorphic processes in their interiors: geochemical analysis. *Icarus* **412**, no. 4?, 115999.
- GLENAR, D.A. AND HILLMAN, J.J. (1993) “Acousto-optic Infrared Spectral Imager for Pluto Fast Flyby.” In *Lunar and Planetary Institute Workshop on Advanced Technologies for Planetary Instruments* (Houston, TX, LPI), 8.
- GULIANO, J. (1996) Teaching that’s out of this world: Pluto Exapress educational outreach. *Educational Horizons* **2**, no. 1, 4–5.
- GOFFIN, E., MEEUS, J., AND STEYAERT, C. (1986) An accurate representation of the motion of Pluto. *Astron. Astrophys.* **155**, 323–325.
- GOLDADER, J.D. AND ALCOCK, C. (2003) Constraining recovery observations for trans-Neptunian Objects with poorly known orbits. *Pub. Astron. Soc. Pacific* **115**, 1330–1339.
- GOLDMAN, S.J. (2002) To Pluto and beyond! *Sky and Tel.* **103**, no. 4, 58.
- GOLDSMITH, M. (2015) *New Horizons to Pluto*. (Grammaticus Books, San Bernardino, CA), 189 pp.
- GOLDREICH, P. AND WARD, W.R. (1972) The case against Planet X. *Pub. Astron. Soc. Pacific* **84**, 737–742.
- GOLDREICH, P., LITHWICK, Y., AND SARI, R. (2002) Formation of Kuiper Belt binaries by dynamical friction and three-body encounters in the early solar system. *Nature* **420**, 643–646.
- GOLDSCHMIDT, V. (1932) Der planet Pluto und die harmonie der spharen. *Akten der von Portheim-Stiftung* **18**, 1–22.
- GOLIO, M. (2006) From the Editor’s desk: first Pluto ... What’s next? *IEEE Microwave Magazine* **7**, no. 6323–328.
- GOLITSYN, G.S. (1975) Possible atmosphere on Pluto. *Pis’ma Astron. Zh.* **1**, 38–42.
- GOLITSYN, G.S. (1975) A possible atmosphere on Pluto. *Sov. Astron. Lett.* **1**, 19–20.
- GOLITSYN, G.S. (1979) Atmospheric dynamics on the outer planets and some of their satellites. *Icarus* **38**, 333–341.
- GOLITSYN, G.S. (1979) Pluto and its satellite. *Zemlya Vzeleynaya* **2**, 47–48.
- GOLITSYN, G.S. AND STEKLOV, A.F. (1981) “On the atmospheres of Triton and Pluto.” In *Physics of Planetary Atmospheres* (John Wiley and Sons, pp. 139–147), .
- GOMES, R.S. (1997) Orbital evolution in resonance lock. I. The restricted 3-body problem. *Astron. Jour.* **114**, 2166–2176.
- GOMES, R.S. (1997) Some consequences of planetary migration on the primordial asteroids. *Bull. Amer. Astron. Soc.* **29**, 1027 (Abstract).
- GOMES, R.S. (1998) Dynamical effects of planetary migration on primordial Trojan-type asteroids. *Astron. Jour.* **116**, 2590–2597.
- GOMES, R.S. (1999) On the edge of the solar system. *Science* **286**, 1487–1488.
- GOMES, R.S. (2000) Planetary migration and Plutinos orbital inclinations. *Astron. Jour.* **120**, 2695–2707.
- GONCALVES, R. (2003) Pluto Observations [938 Linhaceira. *Minor Planet Circular* 48617, 3.
- GONCALVES, R. (2003) Pluto Observations [938 Linhaceira. *Minor Planet Circular* 49276, 4.
- GONCALVES, R. (2004) Pluto Observations [938 Linhaceira. *Minor Planet Circular* 52314, 2.
- GONCALVES, R. (2004) Pluto Observations [938 Linhaceira. *Minor Planet Circular* 52492, 4.
- GONCALVES, R. (2005) Pluto Observations [938 Linhaceira. *Minor Planet Circular* 54344, 3.
- GONCALVES, R. (2005) Pluto Observations [938 Linhaceira. *Minor Planet Circular* 54557, 4.

- GONNESSIAT, F. (1930) Position de la planète Lowell obtenue à l'Equatorial photographique de l'Observatoire d'Alger. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **190**, 908.
- GONNESSIAT, G., RENAUX, RX., FILIPPOFF, F., AND REISS, R., (1930) Positions de la planète Pluton obtenues à l'Equatorial photographique de l'Observatoire d'Alger. *Jour. des Observateurs* **13**, 165.
- GONRING, A. AND MINTON, D.A. (2013) Exploring the dynamical consequences of the collisional environment of the Kuiper Belt on the orbits of Pluto's small satellites. *Bull. Amer. Astron. Soc.* **44**, 201.03 (Abstract).
- GOOD, I.J. (1971) Does an observed sequence of numbers follow a simple rule? (Another look at Bode's Law): Comment. *Jour. Amer. Statistical Assoc.* **66**, no. 335, 559–562.
- GOODY, R., PAPALIOLOS, C., AND BELETIC, J. (1986) High resolution imaging. *Reports of Planetary Astronomy—1985 NASA Technical Memorandum* **89189**, 26–27 (Abstract).
- GORDON, M., SHOWALTER, M.R., BALLARD, L., TISCARENO, M.S., AND HEATHER, N. (2016) OPUS — Outer Planets Unified Search with Enhanced Surface Geometry Parameters — not just for rings. *Bull. Amer. Astron. Soc.* **48**, no. 7, 250 (Abstract).
- GORDON, M.K., SHOWALTER, M.R., BALLARD, L., TISCARENO, M.S., AND OLSEN, D. (2017) OPUS: A comprehensive search tool for remote sensing observations of the outer planets.x Now with enhanced geometric metadata for Cassini and New Horizons optical remote sensing instruments. *Planetary Data Workshop* **3**, LPI Contribution No. 1986, 7088 (Abstract).
- GOR'KAVYI, N.N. (1993) A numerical study of the origin of the Pluto–Charon system. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- GOR'KAVYI, N.N. (2004) A new model of the origin of the Moon. *Bull. Amer. Astron. Soc.* **36**, 861 (Abstract).
- GRAFF, K. (1930) Helligkeit des Pluto. *Astron. Nachr.* **240**, 163.
- GRAHAM, F.G. (2009) “Preliminary design of a cable spacecraft connecting mutually tidally locked planetary bodies.” Paper given at *45th AIAA/SAE/ASME/ASEE Joint Propulsion Conference*, Denver, COAIAA paper #2009-4906.
- GRAHAM, R. (1999) Is Pluto a planet? *Astronomy* **27**, no. 7, 42–47.
- GRAYZECK JR., E.J., A'HEARN, M.F., RAUGH, A.C., SYKES, M.V., AND THOLEN, D. (1996) Services of the Small Bodies Node of the Planetary Data System. *Planetary and Spa. Sci.* **44**, 47–54.
- GREATHOUSE, T.K., VERVACK, R.J., GLADSTONE, G.R., STERN, S.A., SLATER, D.C., VERSTEEG, M., DAVIS, M.W., RETHERFORD, K.D., YOUNG, L.A., STEFFL, A.J., THROOP, H., AND PARKER, J.W. (2007) New Horizons Alice UV Observations of a stellar occultation by Jupiter's atmosphere. *AGU Fall Meeting Abstracts* **P53C**, 05 (Abstract).
- GREATHOUSE, T.K., GLADSTONE, G.R., MOSES, J.I., STERN, S.A., RETHERFORD, K.D., VERVACK, R.J., SLATER, D.C., VERSTEEG, M.H., DAVIS, M.W., YOUNG, L.A., STEFFL, A.J., THROOP, H., PARKER, J.W. (2010) New Horizons Alice ultraviolet observations of a stellar occultation by Jupiter's atmosphere. *Icarus* **208**, 293–305.
- GREAVES, J.S., HELLING, C., AND FRIBERG, P. (2011) Discovery of carbon monoxide in the upper atmosphere of Pluto. *Mon. Not. Roy. Astron. Soc.Lett.* **414**, L36–L40.
- GREAVES, J.S., WHITELAW, A.C.M., AND BENDO, G.J. (2015) The subsurface of Pluto from submillimetre observations. *Mon. Not. Roy. Astron. Soc.* **449**, L82–85.
- GREAVES, W.M.H. (1930) Notes. The trans-Neptunian planet. *The Observatory* **53**, 149–150.
- GREBENIKOV, E.A., AND RIABOV, YU.A. (1975) *Searches for and discoveries of planets* (Izdatel'stvo Nauka, Moscow), 216 pp.
- GREEN, D.W. (1980) Corrigendum. *IAU Circular No. 3486*.
- GREEN, D.W.E. (1986) Corrigenda. *IAU Circular No. 4173*.

- GREEN, D.W.E., CHAMBERS, J.E., AND WILLIAMS, G.E. (1994) Is Pluto a major planet? No. *Sky and Tel.* **88**, no. 2, 8–9.
- GREEN, D.W.E. (2001) History and myth: trans-Neptunian objects and their terminology. *Bull. Amer. Astron. Soc.* **33**, 1363 (Abstract).
- GREEN, D.W.E. (2006) Satellites of Pluto. *IAU Circular No. 8723*.
- GREEN, D.W.E. ((134340) Pluto, (136199) Eris, and (136199) Eris I (Dysnomia)) 2006 *IAU Circular No. 8747*.
- GREEN, D.W.E. (2013) New names of satellites of (143340) Pluto. *IAU Circular No. 3575*.
- GREENBERG, R. (1977) Orbit-orbit resonances in the solar system — varieties and similarities. *Vistas in Astronomy* **21**, 209–239.
- GREENSTREET, S., GLADMAN, B., AND MCKINNON, W.B. (2014) Impact and cratering history of the Pluto system. *Bull. Amer. Astron. Soc.* **46**, 404.02 (Abstract).
- GREENSTREET, S., GLADMAN, B., AND MCKINNON, W.B. (2015) Impact and cratering rates onto Pluto. *Icarus* **258**, 267–288.
- GREENSTREET, S., GLADMAN, B., AND MCKINNON, W.B. (2016) Corrigendum to “Impact and cratering rates onto Pluto.” *Icarus* **274**, 366–367.
- GREENSTREET, S., GLADMAN, B., MCKINNON, W.B., KAVELAARS, J.J., AND SINGER, KELSIE N. (2019) Crater density predictions for New Horizons flyby target 2014 MU69. *Astrophys. Jour.Lett.* **872**, no. 1, L5.
- GRIEGER, B. (2022) An unambiguous global map projection for the Kuiper belt object Arrokoth by fitting a Quincunial Adaptive Closed Kohonen (QuACK) map. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, B1.2-0005-22*, (Abstract).
- GRIFFIN, C.D. (2006) “Vibration testing of the Pluto/New Horizons radioisotope thermoelectric generator.” Paper given at *4th International Energy Conversion Engineering Conference*, San Diego, CA. AIAA paper #2006-4030.
- GRIFFITH, J.S. (1971) On the perturbations of the five outer planets by the four inner ones. *Cel. Mech.* **3**, 478–490.
- GRIFFITH, J.S. (1972) Neptune–Pluto system. *Spaceflight* **14**, 32–33, 71–73.
- GRIGULL, T. (1902) Nouvelle contribution a la recherche d’une planète transneptunienne. *L’Astronomie* **16**, 31–32.
- GRIGULL, T. (1902) Nouvelle contribution a la recherche d’une planète transneptunienne. *L’Astronomie* **16**, 447–448.
- GRIGULL, T. (1921) Der transneptunischer Planet. *Das Weltall* **21**, 113–115.
- GRINSPOON, D. (2016) Pluto and the human imagination. *Geological Soc. Amer. Annual Meeting* **P3**, 211-11 (Abstract).
- GRISHIN, E., MALAMUD, U., PERETS, H.B.; WANDEL, O., AND SCHÄFER, C.M. (2020) The wide-binary origin of (2014) MU₆₉-like Kuiper belt contact binaries. *Nature* **580**, no. 7804, 463–466.
- GROSSER, M. (1964) The search for a Planet beyond Neptune. *Isis* **55**, 163–183.
- GROSSER, M. (1976) “The search for the planet beyond Neptune.” In *Science in America since 1820*, ed. N. Reingold (Science History Publications, New York), pp. 334.
- GROSSINGER, R. (EDITOR). (2015) *Pluto: New Horizons for a lost horizon: astronomy, astrology, and mythology*. (North Atlantic Books, Berkeley, CA), 312 pp.
- GROSSMAN, L. (2011) Pluto may have an ocean beneath its icy exterior. *New Scientist* **211**, no. 2830, 10.
- GROSSMAN, L. (2017) Rings around oddball dwarf planet. *Sci. News* **192**, no. 8, 8..

- GRUNDY, W., SCHMITT, B., QUIRICO, E., AND FINK, U. (1993) Temperature dependent absorption spectra of methane and nitrogen ices. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- GRUNDY, W., SCHMITT, B., AND QUIRICO, E. (1993) The temperature dependent spectra of α and β nitrogen ice with application to Triton. *Icarus* **105**, 254–258.
- GRUNDY, W. AND FINK, U. (1993) CCD spectra of Pluto from 1982 to the present. *Bull. Amer. Astron. Soc.* **25**, 1131 (Abstract).
- GRUNDY, W., SCHMITT, B., AND QUIRICO, E. (1993) Temperature dependent absorption spectra of CH₄ and N₂ ices. *Bull. Amer. Astron. Soc.* **25**, 1132 (Abstract).
- GRUNDY, W.M. (1995) *Methane and nitrogen ices on Pluto and Triton: a combined laboratory and telescope investigation*. Ph.D. dissertation, University of Arizona, Tucson, AZ.
- GRUNDY, W.M. AND FINK, U. (1995) A dozen years of CCD spectrophotometry: constraints on the distribution and composition of Pluto's terrains. *Bull. Amer. Astron. Soc.* **27**, 1100 (Abstract).
- GRUNDY, W.M. AND FINK, U. (1995) Synoptic CCD spectrophotometry of Pluto over the past 15 years. *Icarus* **124**, 329–343.
- GRUNDY, W.M. AND SCHMITT, B. (1998) The temperature-dependent near-infrared absorption spectrum of hexagonal H₂O ice. *Jour. Geophys. Res. Planets* **103**, 25809–25822.
- GRUNDY, W.M., BUIE, M.W., AND STANSBERRY, J.A. (1999) Modeling the near-infrared spectrum of Charon and radiative transfer and implications for N₂:CH₄ surface evolution. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- GRUNDY, W.M., BUIE, M.W., AND KERN, S.D. (1999) Near-infrared spectral observations of Pluto and Charon. *Bull. Amer. Astron. Soc.* **31**, 1109 (Abstract).
- GRUNDY, W.M., BUIE, M.W., AND STANSBERRY, J.A., SPENCER, J.R., AND SCHMITT, B. (1999) Near infrared spectra of icy outer solar system surfaces: remote determination of H₂O ice temperatures. *Icarus* **142**, 536–549.
- GRUNDY, W.M., AND BUIE, M.W. (2000) Near-infrared spectral monitoring of Pluto and Charon. *Bull. Amer. Astron. Soc.* **32**, 1083 (Abstract).
- GRUNDY, W.M., BURATTI, B.J., CHENG, A.F., EMERY, J.P., LUNSFORD, A., MCKINNON, W.B., MOORE, J.M., NEWMAN, S.F., OLKIN, C.B., REUTER, D.C., SCHENK, P.M., SPENCER, J.R., STERN, S.A., THROOP, H.B., AND WEAVER, H.A. (2007) New Horizons mapping of Europa and Ganymede. *Science* **318**, 234–.
- GRUNDY, W.M., OLKIN, C.B., YOUNG, L.A., BUIE, M.W., AND YOUNG, E.F. (2013) Heterogeneous and evolving distributions of Pluto's volatile surface ices. *Bull. Amer. Astron. Soc.* **45**, 303.01 (Abstract).
- GRUNDY, W.M., OLKIN, C.B., YOUNG, L.A., BUIE, M.W., AND YOUNG, E.F. (2013) Near-infrared spectral monitoring of Pluto's ices: spatial distribution and secular evolution. *Icarus* **223**, 710–721.
- GRUNDY, W.M., OLKIN, C.B., YOUNG, L.A., AND HOLLER, B.J. (2014) Near-infrared spectral monitoring of Pluto's ices II: recent decline of CO and N₂ ice absorptions. *Icarus* **235**, 220–224.
- GRUNDY, W.M. AND STANSBERRY, J.A. (2000) Solar gardening and the evolution of nitrogen ice on Triton and Pluto. *Icarus* **148**, 340–346.
- GRUNDY, W.M., AND BUIE, M.W. (2001) Distribution and evolution of CH₄, N₂, and CO ices on Pluto's surface: 1995 to 1998. *Icarus* **153**, 248–263.
- GRUNDY, W.M., SCHMITT, B., AND QUIRICO, E. (2002) The temperature-dependent spectrum of methane ice-I between 0.7 μ m and 5 μ m and opportunities for near-Earth remote thermometry. *Icarus* **155**, 486–496.
- GRUNDY, W.M., AND BUIE, M.W. (2002) Spatial and compositional constraints on non-ice components and H₂O on Pluto's surface. *Icarus* **157**, 128–138.

- GRUNDY, W.M., BUIE, M.W., AND SPENCER, J.R. (2002) Spectroscopy of Pluto and Triton at 3–4 microns: possible evidence for wide distribution of nonvolatile solids. *Astron. Jour.* **124**, 2273–2278.
- GRUNDY, W.M., BUIE, M.W., AND SPENCER, J.R., YOUNG, L.A., AND YOUNG, E.F. (2003) Near-infrared spectral monitoring of Pluto/Charon with IRTF/SpeX. *Bull. Amer. Astron. Soc.* **35**, 957.
- GRUNDY, W.M., BURATTI, B.J., CHENG, A.F., EMERY, J.P., LUNSFORD, A., MCKINNON, W.B., MOORE, J.M., NEWMAN, S.F., OLKIN, C.B., REUTER, D.C., SCHENK, P.M., SPENCER, J.R., STERN, S.A., THROOP, H.B., AND WEAVER, H.A. (2007) New Horizons visible and infrared imaging of the Icy Galilean satellites. *Bull. Amer. Astron. Soc.* **39**, 437 (Abstract).
- GRUNDY, W.M., MCKINNON, W.B., AMMANNITO, E., CASTILLO-ROGEZ, J.C., MERLINE, W.J., NOLL, K.S., RIVKIN, A.S., STANSBERRY, J.A., SYKES, M.V., AND VERBISCHER, A.J. (2009) Exploration strategy for the dwarf planets 2013–2022. *Bull. Amer. Astron. Soc.* **41**, 16.15 (Abstract).
- GRUNDY, W.M. AND MCKINNON, W.B. (2009) Exploration strategy for the ice dwarf planets 2013–2022. *AGU Fall Meeting Abstracts P43D*, 1471 (Abstract).
- GRUNDY, W.M., NOLL, K.S., AND STEPHENS, D.C. (2005) Diverse albedoes of small trans-neptunian objects. *Icarus* **176**, 184–191.
- GRUNDY, W.M., YOUNG, L.A., OLKIN, C.B., BUIE, M.W., AND STANSBERRY, J.A. (2009) Observed spatial distribution and secular evolution of ices on Pluto and Triton. *Bull. Amer. Astron. Soc.* **41**, 6.01 (Abstract).
- GRUNDY, W.M., MORRISON, S.J., BOVYN, M.J., TEGLER, S.C., AND CORNELISON, D.M. (2011) Remote sensing D/H ratios in methane ice: temperature-dependent absorption coefficients of CH₃D in methane ice and in nitrogen ice. *Icarus* **212**, 941–949.
- GRUNDY, W.M., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PROTOPAPA, S., REUTER, D.C., SINGER, K.N., SPENCER, J.R., STERN, S.A., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., AND YOUNG, L.A. (2015) Pluto System surface composition results. *Bull. Amer. Astron. Soc.* **47**, 100.04 (Abstract).
- GRUNDY, W.M., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PROTOPAPA, S., REUTER, D.C., SINGER, K.N., SPENCER, J.R., STERN, S.A., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., YOUNG, L.A., BERRY, K., BUIE, M.W., AND STANSBERRY, J.A. (2015) Configuration of Pluto’s volatile ices. *Bull. Amer. Astron. Soc.* **47**, 200.01 (Abstract).
- GRUNDY, W.M., BINZEL, R.P., BURATTI, B.J., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., HOWETT, C.J.A., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PHILIPPE, S., PROTOPAPA, S., QUIRICO, E., REUTER, D.C., SCHMITT, B., SINGER, K.N., VERBISCHER, A.J., BEYER, R.A., BUIE, M.W., CHENG, A.F., JENNINGS, D.E., LINSKOTT, I.R., PARKER, J.W., SCHENK, P.M., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., THROOP, H.B., TSANG, C.C.C., WEAVER, H.A., WEIGLE II, G.E., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2016) Surface compositions across Pluto and Charon. *Science* **351**, no. 6279, 1283.
- GRUNDY, W.M., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PHILIPPE, S., PROTOPAPA, S., QUIRICO, E., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., YOUNG, L.A., BERRY, K.L., BURATTI, B.J., AND NEW HORIZONS SCIENCE TEAM. (2016) Surface compositions on Pluto and Charon. *Lunar & Planetary Sci.* **47**, 1737 (Abstract).

- GRUNDY, W.M., BERRY, K.L., BEYER, R.A., BINZEL, R.P., BRAY, V.J., BUIE, M.W., BURATTI, B.J., CHENG, A.C., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., KAISER, R.I., LAUER, T.R., LINSKOTT, I.R., LISSE, C.M., LUNSFORD, A.W., MCKINNON, W.B., MOORE, J.M., NIMMO, F., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PHILIPPE, S., PROTOPAPA, S., QUIRICO, E., REITSEMA, H.J., REUTER, D.C., ROBBINS, S.J., SCHENK, P.M., SCHMITT, B., SCIPIONI, F., SHOWALTER, M.R., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C., TYLER, G.L., UMURHAN, O.M., VERBISER, A.J., WEAVER, H.A., WHITE, O.L., YOUNG, L.A., AND ZANGARI, A.M. (2016) What have we learned about Charon from New Horizons? *Geological Soc. Amer. Annual Meeting* **T160**, 48-3 (Abstract).
- GRUNDY, W.M., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PHILIPPE, S., PROTOPAPA, S., QUIRICO, E., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C., VERBISER, A.J., WEAVER, H.A., YOUNG, L.A., BERRY, K.L., AND NEW HORIZONS SCIENCE TEAM. (2016) Highest spatial resolution New Horizons LEISA spectral-imaging scan of Pluto. *Lunar & Planetary Sci.* **47**, 2284 (Abstract).
- GRUNDY, W.M., CRUIKSHANK, D.P., GLADSTONE, G.R., HOWETT, C.J.A., LAUER, T.R., SPENCER, J.R., SUMMERS, M.E., BUIE, M.W., EARLE, A.M., ENNICO, K., PARKER, J.W., PORTER, S.B., SINGER, K.N., STERN, S.N., VERBISER, A.J., BEYER, R.A., BINZEL, R.P., BURATTI, B.J., COOK, J.C., DALLE ORE, C.M., OLKIN, C.B., PARKER, A.H., PROTOPAPA, S., QUIRICO, E., RETHERFORD, K.D., ROBBINS, S.J., SCHMITT, B., STANSBERRY, J.A., UMURHAN, O.M., WEAVER, H.A., YOUNG, L.A., ZANGARI, A.M., BRAY, V.J., CHENG, A.F., MCKINNON, W.B., MCKINNON, R.L., MOORE, J.M., NIMMO, F., REUTER, D.C., SCHENK, P.M., AND THE NEW HORIZONS SCIENCE TEAM. (2016) The formation of Charon's red poles from seasonally cold-trapped volatiles. *Nature* **537**, no. 7620, 65–68.
- GRUNDY, W.M., BINZEL, R., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D., HOWETT, C., KAISER, R.I., LINSKOTT, I., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PHILIPPE, S., PROTOPAPA, S., QUIRICO, E., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C., VERBISER, A.J., WEAVER, H.A., WEIGLE, G.E., AND YOUNG, L. (2016) Pluto's nonvolatile chemical compounds. *Bull. Amer. Astron. Soc.* **48**, no. 7, 161–162 (Abstract).
- GRUNDY, W.M., STERN, S.A., BAGENAL, F., GLADSTONE, R., AND BURATTI, B. (2016) Introduction to the Pluto system science special issue. *Icarus* **246**, 1.
- GRUNDY, W.M., BINZEL, R.P., BUIE, M.W., COOK, J.C., CHENG, A.F., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.E., LUNSFORD, A.W., MCKINNON, W.B., OLKIN, C.B., PARKER, A.H., PROTOPAPA, S., REUTER, D.C., SINGER, K.N., SPENCER, J.R., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2017) Haze and cosmic ray influences on Pluto's compositional environments. *Lunar & Planetary Sci.* **48**, 2165 (Abstract).
- GRUNDY, W.M. AND UMURHAN, O.M. (2017) Are Makemake and Eris Sputnik planets? *Bull. Amer. Astron. Soc.* **49**, 202.02 (Abstract).
- GRUNDY, W.M., STERN, S.A., MCKINNON, W.B., WEAVER, H.A., AND YOUNG, L.A. (2018) The Pluto system after New Horizons. *Ann. Rev. Astron. Astrophys.* **56**, 357–392.

- GRUNDY, W.M., BERTRAND, T., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., COOK, J.C., CRUIKSHANK, D.P., DEVINS, S.L., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., FORGET, F., GAO, P., GLADSTONE, G.R., HOWETT, C.J.A., JENNINGS, D.E., KAMMER, J.A., LAUER, T.R., LINSKOTT, I.R., LISSE, C.M., LUNSFORD, A.W., MCKINNON, W.B., OLKIN, C.B., PARKER, A.H., PROTOPAPA, S., QUIRICO, E., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.A., STERN, S.A., STROBEL, D.F., SUMMERS, M.E., WEAVER, H.A., WEIGLE, G.E., WONG, M.L., YOUNG, E.F., YOUNG, L.A., AND ZHANG, X. (2018) Pluto’s haze as a surface material. *Icarus* **314**, 232–245.
- GRUNDY, W. (2018) “The Pluto–Charon system.” In *Oxford Research Encyclopedia of Planetary Science*. (Peter Read, Ed., Oxford University Press, p. 35), .
- GRUNDY, W.M., CRUIKSHANK, D.P., PROTOPAPA, S., AND SCHMITT, B. (2019) Pluto’s surface composition. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7051 (Abstract).
- GRUNDY, W.M., BINZEL, R.P., BRITT, D.T., BUIE, M.W., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., GABASOVA, L., JENNINGS, D.E., HOWETT, C.J.A., KAVELAARS, J.J., LINSKOTT, I.E., OLKIN, C.B., PARKER, A.H., PARKER, J.W., QUIRICO, E., PROTOPAPA, S., REUTER, D.C., ROBBINS, S.J.SCHMITT, B., SCIPIONI, F., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., VERBISCHER, A.J., WEAVER, H.A., AND YOUNG, L.A. (2019) 486958 2014 MU69 Ultima Thule surface composition overview. *Lunar & Planetary Sci.* **50**, 2473 (Abstract).
- GRUNDY, W.M., BIRD, M.K., BRITT, D.T., COOK, J.C., CRUIKSHANK, D.P., HOWETT, C.J.A., KRIJIT, S., LINSKOTT, I.R., OLKIN, C.B., PARKER, A.H., PROTOPAPA, S., RUAUD, M., UMURHAN, O.M., YOUNG, L.A., DELLE ORE, C.M., KAVELAAR, J.J., KEANE, J.T., PENDLETON, Y.J., PORTER, S.B., SCIPIONI, F., SPENCER, J.R., STERN, S.A., VERBISCHER, A.J., WEAVER, H.A., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A., EARLE, A.M., ELLIOTT, H.A., GABASOVA, L., GLADSTONE, G.R., HILL, M.E., HIORANYI, M., JENNINGS, D.E., LUNSFORD, A.W., MCCOMAS, D.J., MCKINNON, W.,B., MCNUTT, JR., R.L., MOORE, J.M., PARKER, J.W., QUIRICO, E., REUTER, D.C., SCHENK, P.M., SCHMITT, B., SHOWALTER, M.W., SINGER, K.N., WEIGLE II, G.E., AND ZANGARI, A.M. (2020) Color, composition, and thermal environment of Kuiper Belt object (486958) Arrokoth. *Science* **367**, no. 6481, 999; eaay 3705.
- GRUNDY, W. (2020) “Pluto and Charon as templates for other large Trans-Neptunian objects.” In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds.), 291–305.
- GUÉRIN, F. (1994) Une sonde russe pour Pluton? *Ciel et Espace* **293**, 8–9.
- GUÉRIN, F. (1994) Charon: glace ou roche? *Ciel et Espace* **293**, 9.
- GUERRA, A.G.C., FRANCISCO, F., GIL, P.J.S., AND BERTOLAMI, O. (2017) Estimating the thermally induced acceleration of the New Horizons spacecraft. *Phys. Rev D* **95**, 124027.
- GUILBERT-LEPOUTRE, A., PRIALNIK, D., AND MÉTAYER, R. (2020) “Internal structure and cryovolcanism on Trans-Neptunian objects.” In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds.), 183–201.
- GUINNESSY, P. (2001) Goldin maps NASA’s past, present, and future. *Physics Today* **54**, no. 4, 25–26, .
- GULBIS, A.A.S., BUS, S.J., ELLIOT, J.L., RAYNER, J.T., STAHLBERGER, W.E., ROJAS, F.E., ADAMS, E.R., PERSON, M.J., CHUNG, R., TOKUNAGA, A.T., AND ZULUAGA, C.A. (2011) First results from the MIT Optical Rapid Imaging System (MORIS) on the IRTF: a stellar occultation by Pluto and a transit by exoplanet XO-2b. *Pub. Astron. Soc. Pacific* **123**, 461–469.
- GULBIS, A.A.S., ELLIOT, J.L., PERSON, M.J., BABCOCK, B.A., PASACHOFF, J.M., AND SOUZA, S.P. (2005) Portable, photon-counting cameras for observing occultations, eclipses, and transits. *Bull. Amer. Astron. Soc.* **37**, 651 (Abstract).

- GULBIS, A.A.S., ELLIOT, J.L., PERSON, M.J., ADAMS, E.R., KERN, S.D., KRAMER, E.A., BABCOCK, B.A., GANGESTAD, J.W., PASACHOFF, J.M., SOUZA, S.P., OSIP, D.J., EMILIO, M., AND TUVIKENE, T. (2006) Charon’s radius and atmospheric constraints from the 2005 July 11 stellar occultation. *Bull. Amer. Astron. Soc.* **37**, 1571 (Abstract).
- GULBIS, A.A.S., ELLIOT, J.L., PERSON, M.J., ADAMS, E.R., BABCOCK, B.A., EMILIO, M., GANGESTAD, J.W., KERN, S.D., KRAMER, E.A., OSIP, D.J., PASACHOFF, J.M., SOUZA, S.P., AND TUVIKENE, T. (2006) Charon’s radius and atmospheric constraints from observations of a stellar occultation. *Nature* **439**, 48–51.
- GULBIS, A.A., ELLIOT, J.L., PERSON, M.J., ADAMS, E.R., KRAMER, E.A., ZULUAGA, C.A., PIKE, R.E., BABCOCK, B.A., GANGESTAD, J.W., JASKOT, A.E., PASACHOFF, J.M., SOUZA, S.P., FRANCIS, P.J., LUCAS, R., BOSH, A.S., RAMM, D.J., GREENHILL, J.G., GILES, A.B., AND DIETERS, S.W. (2006) Pluto’s atmospheric structure: results from the 2006 June 12 stellar occultation. *Bull. Amer. Astron. Soc.* **38**, 541 (Abstract).
- GULBIS, A.A., ELLIOT, J.L., PERSON, M.J., BABCOCK, B.A., PASACHOFF, J.M., SOUZA, S.P., AND ZULUAGA, C.A. (2008) “Recent stellar occultation observations using high-speed, portable camera systems.” In *High time resolution astrophysics: the universe at sub-second timescales*, ed. D. Phelan, O. Ryan, A. Shearer (Amer. Inst. Phys. Conf. Proc. 984), pp. 91–100.
- GULBIS, A., EMERY, J.P., PERSON, M.J., BOSH, A.S., ZULUAGA, C.A., PASACHOFF, J.M., AND BABCOCK, B.A. (2012) Probing Pluto’s upper atmosphere: a 2011 occultation graze in visible images and infrared spectra. *Bull. Amer. Astron. Soc.* **44**, 304.03 (Abstract).
- GULBIS, A., EMERY, J.P., PERSON, M.J., BOSH, A.S., ZULUAGA, C.A., AND PASACHOFF, J.M. (2014) Evidence of haze in Pluto’s lower atmosphere in 2011. *Bull. Amer. Astron. Soc.* **46**, 401.01 (Abstract).
- GULBIS, A.A.S., EMERY, J.P., PERSON, M.J., BOSH, A.S., ZULUAGA, C.A., PASACHOFF, J.M., AND BABCOCK, B.A. (2015) Observations of a successive stellar occultation by Charon and graze by Pluto in 2011: Multiwavelength SpeX and MORIS data from the IRTF. *Icarus* **246**, 226–236.
- GULIEV, A.S. (1983) On the existence of Pluto’s cometary family. *Tsirk. Shemakh. Astrofiz. Obs.* **70**, 15–17.
- GULIEV, A.S. (1987) The possible existence of an unknown planet in the Neptune–Pluto region. *Kinematika i Fizika Nebesnykh Tel* **3**, 28–33.
- GULIEV, A.S. AND DADASHOV, A.S. (1989) Transplutonian cometary families. *Astron. Vestnik* **23**, 88–96.
- GULIEV, A.S. (1992) The possible existence of two transplutonian planets. *Pis’ma v Astronomicheskii Zhurnal* **18**, no. 2, 183–189.
- GULIEV, A.S. (1992) The possible existence of two transplutonian planets. *Sov. Astron. Lett.* **18**, no. 1, 75–78.
- GULIEV, A.S. AND BABENKO, YU.G. (1997) Verification of some hypotheses for unknown planets through an analysis of the interorbital minimum comet–planet distances. *Kinematika i Fizika Nebesnykh Tel* **13**, 56.
- GULIEV, A.S. AND NABIEV, SH.A. (2003) Pluto and comets. 1. Does exist a group of comets associated with Pluto? *Kinematika i Fizika Nebesnykh Tel.* **18**, no. 6, 525–531.
- GULIEV, A.S. AND NABIEV, SH.A. (2004) Pluto and comets. 2. Some peculiarities of the group of comets having a possible association with Pluto. *Kinematika i Fizika Nebesnykh Tel.* **20**, no. 3, 283–288.
- GULIEV, A.S. AND NABIEV, SH.A. (2005) Pluto and comets. 3. Possible mechanisms of interrelation of comets and Pluto. *Kinematika i Fizika Nebesnykh Tel.* **21**, no. 1, 53–59.
- GUNN, E.J. (1970) Another planet? *New Scientist* **48**, 345 (Letter to editor).
- GUNTER, B.C. (2019) A year of exploration and commercialization in space. *Aerospace America 2019 Year in Review* **57**, no. 1122.

- GUO, Y. AND FARQUHAR, R.W. (2002) “New Horizons mission design for the Pluto–Kuiper Belt mission.” Paper given at *American Institute of Aeronautics and Astronautics Specialists Conference*, Monterey, CA, 5–8 August 2002. AIAA paper #2002-4722.
- GUO, Y. AND FARQUHAR, R.W. (2005) New Horizons Pluto–Kuiper Belt mission: design and simulation of the Pluto–Charon encounter. *Acta Astronautica* **56**, 421–429 (Abstract).
- GUO, Y. AND FARQUHAR, R.W. (2006) Baseline design of New Horizons mission to Pluto and the Kuiper belt. *Acta Astronautica* **58**, 550–559.
- GUO, Y. AND FARQUHAR, R.W. (2008) New Horizons Mission design. *Spa. Sci. Rev.* **140**, 49–74.
- GUO, Y. (2016) Case study: Orchestrating a cosmic dance. *Aerospace America* **54**, no. 1, 14–16..
- GURROLA, E.M., ESHLEMAN, V.R., TYLER, G.L., AND MAROUF, E.A. (1993) Simulations of a radio occultation experiment for measuring Pluto’s atmosphere: lessons from Triton. *Bull. Amer. Astron. Soc.* **25**, 1130 (Abstract).
- GURWELL, M.A. AND BUTLER, B.J. (2005) Sub-arcsecond scale imaging of the Pluto/Charon binary system at 1.4 mm. *Bull. Amer. Astron. Soc.* **37**, 743 (Abstract).
- GURWELL, M.A. (2005) Solar system science with the SMA. *Bull. Amer. Astron. Soc.* **37**, 1311.
- GURWELL, M.A., BUTLER, B.J., AND MOULLET, A. (2010) Subarcsecond scale imaging of the Pluto–Charon system at 1.1 and 1.4 mm. *Bull. Amer. Astron. Soc.* **42**, 1014 (Abstract).
- GURWELL, M.A., BUTLER, B.J., AND MOULLET, A. (2011) Millimeter-wave imaging of the Pluto-Charon System. *EPSC Abstracts* **6**, 271 (Abstract).
- GURWELL, M.A., BUTLER, B.J., AND MOULLET, A. (2013) Atmospheric CO on Pluto: limits from millimeter-wave spectroscopy. *Bull. Amer. Astron. Soc.* **45**, 404.03 (Abstract).
- GURWELL, M.A., BUTLER, B.J., AND MOULLET, A. (2014) Atmospheric CO on Pluto: limits from millimeter-wave spectroscopy. *Bull. Amer. Astron. Soc.* **46**, 401.05 (Abstract).
- GURWELL, M., LELLOUCH, E., BUTLER, B., MOULLET, A., MORENO, R., BOCKLÉE-MORVIN, D., BIVER, N., FOUCHET, T., LIS, D., STERN, A., YOUNG, L., YUNG, E., WEAVER, H., BOISSIER, J., AND STANSBERRY, J. (2015) Detection of atmospheric CO on Pluto with ALMA. *Bull. Amer. Astron. Soc.* **47**, 105.06 (Abstract).
- GURWELL, M., BUTLER, B., LELLOUCH, E., MORENO, R., AND MOULLET, A. (2018) Triton: atmosphere and surface observed with ALMA and comparison with Pluto. *Bull. Amer. Astron. Soc.* **50**, 502.07 (Abstract).
- GURWELL, M.A., LELLOUCH, E., BUTLER, B.J., MORENO, R., MOULLET, A., STROBEL, D.F., AND LAVVAS, P. (2019) The atmospheres of Pluto and Triton: investigations with ALMA. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7060 (Abstract).
- GURWELL, M., LELLOUCH, E., BUTLER, B., MORENO, R., MOULLET, A., AND STROBEL, D. (2019) The atmosphere of Triton observed with ALMA. *ESPC–DPS Joint Meeting* **13**, 806G (Abstract).
- HAAG, A. (2005) A man with a mission. *Nature* **436**, 618–619.
- HAAS, M. (1991) Speckle interferometry. II–Instruments and results. *Sterne und Weltram* **30**, 89–94 (Abstract).
- HACHISU, I. AND ERIGUCHI, Y. (1985) Fluid satellite. *Astron. Astrophys.* **152**, 51–57.
- HADJIFOTINOY, K.G. AND HADJIDEMETRIOU, J.D. (2002) A symplectic mapping model for the study of 2:3 resonant trans-Neptunian motion. *Cel. Mech. and Dynam. Astron.* **84**, 135–158.
- HAFFNER, J.W. (1971) Natural nuclear radiation environments for the Grand Tour missions. *IEEE Transactions on Nuclear Science* **18**, no. 6, 443–453.
- HAFFNER, J.W. AND MARTIN, C.W. (1971) *Environments of the outer solar system*. (North American Rockwell Space Division), 184 pp.

- HAGGERTY, D.K., HILL, M.E., MCNUTT, R.L., AND PARANICAS, C. (2009) Energetic particle evidence for magnetic filaments in Jupiter’s magnetotail. *AGU Fall Meeting Abstracts* **SM23B**, 1620 (Abstract).
- HAHN, J.M. AND WARD, W.R. (1995) Resonance passage via collisions. *Lunar & Planetary Sci.* **26**, 541–542 (Abstract).
- HAHN, J.M. AND MALHOTRA, R. (1998) Radial migration of planets embedded in a massive planetesimal disk. *Bull. Amer. Astron. Soc.* **30**, 105253 (Abstract).
- HAHN, J.M. AND MALHOTRA, R. (1999) Orbital evolution of planets embedded in a planetesimal disk. *Astron. Jour.* **117**, 3041–3053.
- HAHN, M., PÄTZOLD, M., ANDERT, T., BIRD, M.K., TYLER, L.G., LINSKOTT, I., HINSON, D.P., STERN, A., WEAVER, H., OLKIN, C., YOUNG, L., AND ENNICO, K. (2015) Determination of the system mass and the individual masses of the Pluto system from New Horizons Radio Tracking. *Bull. Amer. Astron. Soc.* **47**, 210.29 (Abstract).
- HAINAUT, O.R., BOENHARDT, H., AND PROTOPAPA, S. (2012) Colours of minor bodies in the outer solar system II. A statistical analysis revisited. *Astron. Astrophys.* **546**, A115.
- HAKIM, K., SPAARGAREN, R., GREWAL, D.S., ROHRBACH, A., BERNDT, J., DOMINIK, C., AND VAN WESTRENE, W. (2019) Mineralogy, structure, and habitability of carbon-enriched rocky exoplanets: a laboratory approach. *Astrobiology* **19**, no. 7, 867–884.
- HALE, J.M. AND PATY, C.S. (2013) Characterizing Pluto’s plasma environment through multifluid MHD modelling. *AGU Fall Meeting Abstracts* **SM31A**, 2110 (Abstract).
- HALE, J.M. AND PATY, C.S. (2014) Investigating Charon’s impact on Pluto’s interaction with the solar wind through multifluid MHD simulations. *AGU Fall Meeting Abstracts* **P33**, B4037 (Abstract).
- HALE, J.P.M. AND PATY, C.S. (2017) Pluto–Charon solar wind interaction dynamics. *Icarus* **287**, 131–139.
- HALEY, D., STRIKWERDA, T., AILINGER, K., CASINI, R., LANDI, A., AND BETTARINI, R. (2006) Star tracker scan mode capability for the New Horizons mission. *Acta Astron.* **59**, 956–965.
- HALEY, D., STRIKWERDA, T., AILINGER, K., CASINI, R., LANDI, A., AND BETTARINI, R. (2003) “Star tracker scan mode capability for the New Horizons mission.” In *Proceedings of the Fifth IAA International Conference on Low-Cost Planetary Missions, 24–26 September 2003, Noordwijk, The Netherlands*. (R.A. Harris, ed.), 299–306.
- HALL, A. (1879) The trans-Neptunian Planet. *Nature* **19**, no. 491, 481.
- HALL, D.N.B. (1985) “Research in planetary studies and operation of Mauna Kea Observatory.” In *TLSP: Semiannual progress report, Jan.–Dec. 1984*. (NASA CR-175618), ???.
- HALL, D.N.B. (1986) Research in planetary astronomy and operation of 2.2-meter telescope. *Reports of Planetary Astronomy—1985* **NASA Technical Memorandum 89189**, 28–31 (Abstract).
- HALL, D.N.B. (1989) Research in planetary studies and operation of Mauna Kea Observatory *Reports of Planetary Astronomy—1989* **NASA Technical Memorandum 4120**, 45 (Abstract).
- HALL, S. (2020) Pluto’s dark side spills its secrets — including hints of a hidden ocean. *Nature* **583**, 7818674–678.
- HALLAU, K. (2009) Exploring space science concepts using interactive animations and learning modules. *AGU Fall Meeting Abstracts* **ED54A**, 01 (Abstract).
- HALLIDAY, I. (1963) A proposal for a new determination of the diameter of Pluto. *Jour. Roy. Astron. Soc. Canada* **57**, 163–169.
- HALLIDAY, I. (1963) A proposal for a new determination of the diameter of Pluto. *Contr. Dominion Astrophys. Obs.* **4**, no. 9, 1–7.
- HALLIDAY, I. (1965) A possible occultation by the planet Pluto. *Sky and Tel.* **29**, 216–217.
- HALLIDAY, I., HARDIE, R.H., FRANZ, O., AND PRISER, J.B. (1966) An upper limit for the diameter of Pluto. *Pub. Astron. Soc. Pacific* **78**, 113–124.

- HALLIDAY, I. (1965) Letters. *Sky and Tel.* **30**, 12 (Letter to editor).
- HALLIDAY, I. (1965) Pluto's diameter. *Sky and Tel.* **30**, 213.
- HALLIDAY, I. (1969) Comments on the mean density of Pluto. *Pub. Astron. Soc. Pacific* **81**, 285–287.
- HALLIDAY, I. (1981) Solar system astronomy in Volumes 1–25 of the Journal of the R.A.S.C. (1907–1931). *Jour. Roy. Astron. Soc. Canada* **75**, 299–304.
- HALLIDAY, I. (1985) Shedding light on Pluto. *Sky and Tel.* **69**, no. 3, 196.
- HAMID, S.E. AND WHIPPLE, F.L. (1968) Tabular Planetary Positions from 500 B.C. to A.D. 2000. *Astron. Jour.* **73**, 16.
- HAMID, S.E., MARSDEN, B.G., AND WHIPPLE, F.L. (1968) Influence of a comet belt beyond Neptune on the motions of periodic comets. *Astron. Jour.* **73**, 727–729.
- HAMILTON, D.P. (1999) Resonances, drag forces and the Jacobi constant. *Bull. Amer. Astron. Soc.* **31**, 1122 (Abstract).
- HAMILTON, D.P. (2015) The icy cold Heart of Pluto. *Bull. Amer. Astron. Soc.* **47**, 200.07 (Abstract).
- HAMILTON, D.P., STERN, S.A., MOORE, J.M., YOUNG, L.A., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING THEME TEAM. (2016) The rapid formation of Sputnik Planitia early in Pluto's history. *Nature* **540**, no. 7631, 97–99.
- HAMILTON, D. (2017) The early formation of Pluto's Sputnik Planitia. *Asteroids, Comets, and Meteorites* **2017**, 137 (Abstract).
- HAMILTON, D.P. (2018) Deadly sunflower orbits. *Bull. Amer. Astron. Soc.* **49**, 401.02 (Abstract).
- HAMILTON, D.P. AND DE SANTANA, T. (2019) Three-body and spin-orbit resonances in the Pluto system. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7072 (Abstract).
- HAMILTON, S. AND HART, H. (2008) “Operational pre-planning for intensive science periods: the New Horizons Jupiter flyby.” Paper given at *Space 2008*, San Diego, CA, AIAA paper #2008-7653.
- HAMILTON, S., HART, H., BOWMAN, A., AND ROGERS, G. (2015) “New Horizons hibernation operations: it takes a lot of work to sleep.” Paper given at *Proceedings of the 2015 IEEE Aerospace Conference, 07–14 March 2015*. *Big Sky, MT*, 7–14, .
- HAMILTON, T.W. AND JORDAN, J.F. (1970) Coursing accurately to the giant outer planets and their moons. *Astronautics and Aeronautics* **8**, no. 5, 66–70.
- HAMID, S.E., MARSDEN, B.G., AND WHIPPLE, F.L. (1968) Influence of a comet belt beyond Neptune on the motions of periodic comets. *Astron. Jour.* **73**, 727–729.
- HAMILTON, S., HART, H., AND WHITTENBURG, K. (2016) “A mission planners perspective: planning, development, and verification of the New Horizons Pluto Flyby Command Sequences.” Paper given at *SpaceOps 2016 Conference*, Daejeon, Korea, AIAA paper #2016-2414.
- HAMMEL, H.B. (2000) Hot topics in the solar system. *Bull. Amer. Astron. Soc.* **32**, 1442 (Abstract).
- HAMMERTON, M. (1978) King Arthur. *New Scientist* **80**, no. 1128, 426 (Letter to editor).
- HAMMOND, N.P., BARR, A.C., AND PARMENTIER, E.M. (2016) Ocean survival, Ice II formation and recent tectonic activity on Pluto. *Lunar & Planetary Sci.* **47**, 2234 (Abstract).
- HAMMOND, N.P., BARR, A.C., AND PARMENTIER, E.M. (2016) Recent tectonic activity on Pluto driven by phase changes in the ice shell. *Geophys. Res. Letters* **43**, no. 13, 6775–6782.
- HAMON, A. (1930) La planète transneptunienne. *L'Astronomie* **44**, 180–181.
- HAMON, A. (1930) Séance du mercredi 7 mai 1930. *L'Astronomie* **44**, 266–268.
- HAMON, A. (1930) Communications verbales. *L'Astronomie* **44**, 541–543.
- HAMON, A. (1931) Communications diverses. *L'Astronomie* **45**, 514.
- HAMON, A. (1932) Communications verbales. *L'Astronomie* **46**, 179–180.

- HAMON, A. (1931) Communications verbales. *L'Astronomie* **45**, 187–189.
- HAN, C. AND TYLER, G. (2003) Resolving diffractive atmospheric and surface structures at Pluto using New Horizons multiple frequency radio occultation and back propagation. *AGU Spring Meeting Abstracts P41B*, 0405 (Abstract).
- HAN, C. AND TYLER, G. (2004) Isolating diffraction signatures in New Horizons multi-tone radio occultation data and resolving their related structures at Pluto. *AGU Spring Meeting Abstracts P22A*, 03 (Abstract).
- HAN, D., POPPE, A.R., PIQUETTE, M., GRÜNN, E., AND HORÁNYI, M. (2011) Constraints on dust production in the Edgeworth-Kuiper Belt from Pioneer 10 and New Horizons measurements. *Geophys. Res. Letters* **38**, L24102.
- HAND, E. (2014) Comet rendezvous: Rosetta's short-lived lander grabbed the headlines, but the ongoing orbital mission is the real news for science. *Science* **346**, no. 6216, 1442–1443.
- HAND, E. (2015) Mission controller: how Alan Stern's tenacity, drive, and command got a NASA spacecraft to Pluto. *Science* **348**, no. 6242, 1414–1419.
- HAND, E. (2015) Alan Stern's worldly ventures. *Science* **348**, no. 6242, 1419.
- HAND, E. (2015) Pluto caps one man's odyssey: NASA veteran Tom Krimigis has been on missions to all of the sun's planets, and beyond. *Science* **349**, no. 6244, 130–131.
- HAND, E. (2015) Scientists ponder an improbably active Pluto: New Horizons delights researchers with stark vistas and perplexing puzzles. *Science* **349**, no. 6246, 352–353.
- HAND, E. (2015) Late harvest from Pluto reveals a complex world: Months after its famed flyby, New Horizons is still giving scientists plenty to ponder. *Science* **350**, no. 6258, 260–261.
- HAND, E. (2016) A big year for small worlds. *Science* **350**, no. 6267, 1456.
- HANNER, G.P. (2006) Planetary turmoil. *Sky and Tel.* **112**, no. 6, 12 (Letter to editor).
- HANSEN, C.J. AND PAIGE, D.A. (1993) A Pluto thermal model. *Lunar & Planetary Sci.* **24**, 599 (Abstract).
- HANSEN, C.J. AND PAIGE, D.A. (1993) Seasonal nitrogen cycles on Pluto. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- HANSEN, C.J. AND PAIGE, D.A. (1994) A parameterized view of Pluto's climate history. *Bull. Amer. Astron. Soc.* **26**, 1170 (Abstract).
- HANSEN, C.J. (1994) *Seasonal nitrogen cycles on Triton and Pluto*. Ph.D. dissertation, UCLA, Los Angeles, CA.
- HANSEN, C.J. AND PAIGE, D.A. (1996) Seasonal nitrogen cycles on Pluto. *Icarus* **120**, 247–265.
- HANSEN, C. AND PAIGE, D.A. (2006) Seasonal behavior of nitrogen atmospheres on trans-Neptunian objects. *Bull. Amer. Astron. Soc.* **38**, 565 (Abstract).
- HANSEN, C., PAIGE, D.A., AND YOUNG, L.A. (2015) Pluto's climate modeled with new observational constraints. *Icarus* **246**, 183–191.
- HANSEN, C.J., CASTILLO-ROGEZ, J., GRUNDY, W., HOFGARTNER, J.D., MARTIN, E.S., MITCHELL, K., NIMMO, F., NORDHEIM, T.A., PATY, C., QUICK, L.C., ROBERTS, J.H., RUNYON, K., SCHENK, P., STERN, A., UMURHAN, O. (2021) Triton: fascinating moon, likely ocean world, compelling destination! *Planetary Sci. Jour.* **2**, no. 4, 137.
- HANSEN, C. (2022) Exploration of Triton, a likely ocean world. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, B5.1-0008-22*, (Abstract).
- HANSSON, A. (1998) Report: Missions to the outer solar system and beyond. *Space Policy* **14**, 251–252.

- HARCH, A., CARCICH, B., ROGERS, G., BOWMAN, A., HOLDRIDGE, M., KANG, H., WEAVER, H., WHITTENBURG, K., CARRANZA, E., JACKMAN, C., WILLIAMS, B., WILLIAMS, K., WOLFF, P., BAUMAN, J., NELSON, D., PELLETIER, F., STANBRIDGE, D., OWEN, B., BIRATH, E., DISCHNER, Z., FINLEY, T., MARTIN, N., OLKIN, C., REDFERN, J., ROSE, D., AND ENNICO, K. (2016) “Accommodating navigation uncertainties in the Pluto Encounter Sequence Design.” Paper given at *SpaceOps 2016 Conference*, Daejeon, Korea, AIAA paper #2016-2623.
- HARDIE, R. (1954) [RV Lyn] Photometry with the Lowell 20-inch telescope. *Astron. Jour.* **59**, 323.
- HARDIE, R.H. (1965) Pluto’s rotation and diameter. In “American Astronomers Report,” *Sky and Tel.* **29**, 141.
- HARDIE, R.H. (1965) A re-examination of the light variation of Pluto. *Astron. Jour.* **70**, 140 (Abstract).
- HARDIE, R.H. (1969) Pluto’s dimming not permanent. *Sci. News* **95**, 285.
- HARDIE, R.H., MARCIALIS, R.L., WILSON, J.W., AND FURMAN, W.R. (1985) Astrometric observations of Pluto: 1965–1981. *Astron. Jour.* **90**, 2643.
- HARMON, B.A. AND BOHNE, W.A. (2007) A look back at assembly and test of the New Horizons Radioisotope Power System. *Space Technology and Applications International Forum–STAIF 2007: 11th Conf. Thermophys. Applic.in Micrograv., 24th Symp Space Nucl. Pwr. Propulsion, 5th Conf. Hum/Robotic Tech. & Vision Space Explor., 5th Symp Space Coloniz., 4th Symp New Frontiers & Future Con. AIP Conference Proceedings* **880**, 339–346.
- HARMON, R.O. AND CREWS, L.J. (2000) Imaging stellar surfaces via Matrix Light-Curve Inversion. *Astron. Jour.* **120**, 3274–3294.
- HARNETT, E.M., WINGLESS, R.M., AND DELAMERE, P.A. (2005) Three-dimensional multi-fluid simulations of Pluto’s magnetosphere: a comparison to 3D hybrid simulations. *Jour. Geophys. Res.Lett.* **32**, L19104.
- HARRINGTON, R.S. AND HARRINGTON, B.J. (1979) The discovery of Pluto’s moon. *Mercury* **8**, 1–6, 17.
- HARRINGTON, R.S. (1979) The satellite of Pluto. *News Lett. Astron. Soc. N.Y.* **1**, no. 4, 15–20.
- HARRINGTON, R.S. (1979) Pluto. *IAU Circular No. 3343*, 2.
- HARRINGTON, R.S. (1980) 1978 P1. *IAU Circular No. 3515*, 1 See Corrigendum, *IAU Circular No. 3522*.
- HARRINGTON, R. (1980) Book Review: *The Planet Pluto*, by A.J. Whyte. Permagon, New York. 145 pp. *Icarus* **44**, 224.
- HARRINGTON, R.S. (1980) Probable occultation by 1978 P1. *IAU Circular No. 3474*.
- HARRINGTON, R.S. AND HARRINGTON, B.J. (1980) Pluto: still an enigma after 50 years. *Sky and Tel.* **59**, 452–454.
- HARRINGTON, R., AND CHRISTY, J.W. (1980) The orbit of the satellite of Pluto. *Bull. Amer. Astron. Soc.* **12**, 509.
- HARRINGTON, R., AND CHRISTY, J.W. (1980) The satellite of Pluto, II. *Astron. Jour.* **85**, 168–170.
- HARRINGTON, R.S. AND CHRISTY, J.W. (1981) The satellite of Pluto. III. *Astron. Jour.* **86**, 442–443.
- HARRINGTON, R.S. AND VAN FLANDERN, T.C. (1979) The satellites of Neptune and the origin of Pluto. *Icarus* **39**, 131–136.
- HARRINGTON, R.S. (—) The satellite of Pluto, IV. (*withdrawn*).
- HARRINGTON, R.S. (1981) Book Review: *Out of the darkness: the planet Pluto*, by C.W. Tombaugh and P. Moore. *Sky and Tel.* **61**, 243.
- HARRINGTON, R.S. AND WALKER, R.L. (1984) Positions of planets and natural satellites. II. *Astron. Jour.* **89**, 889–898.
- HARRINGTON, R.S. (1986) “Planet X.” In Chapter 10 of, *Dark companions of stars: astrometric commentary on the lower end of the main sequence.* *Spa. Sci. Rev.* **43**, 287–289.

- HARRINGTON, R.S. (1986) The location of Planet X. *Bull. Amer. Astron. Soc.* **20**, 897 (Abstract).
- HARRIS, D.L. (1961) "Photometry and colorimetry of planets and satellites" In *Planets and Satellites*, ed. G.P. Kuiper and B.M. Middlehurst. (Univ. of Chicago Press, Chicago, IL), pp. 272–342.
- HARRIS, A.W. (1977) An analytical theory of planetary rotation rates. *Icarus* **31**, 168–174.
- HARRIS, A.W. (1982) Climatic variation on Pluto. *Bull. Amer. Astron. Soc.* **14**, 990–991 (Abstract).
- HARRIS, A.W. (1985) Asteroid 29 Amphitrite is a topic of interest. *Geotimes* **30**, no. 6, 25–26.
- HARRIS, A.W. (1993) The inside scoop on "Charon." *Eos* **74**, 243.
- HART, M.H. (1974) A possible atmosphere for Pluto. *Icarus* **21**, 242–247.
- HARTIG, K., BARRY, T., CARRIAZO, C.Y., COLE, A., GAULT, D., GILES, B., GILES, D., HILL, K.M., HOWELL, R.R., HUDSON, G., LOADER, B., MACKIER, J.A., OLKIN, C.B., RANNOU, P., REGESTER, J., RESNICK, A., RODGERS, T., SICARDY, B., SKRUTSKIE, M.F., VERBISCHER, A.J., WASSERMAN, L.H., WATSON, C.R., YOUNG, E.F., YOUNG, L.A., BUIE, M.W., AND NELSON, M. (2015) Constraints on Pluto's hazes from 2-color occultation lightcurves. *Bull. Amer. Astron. Soc.* **47**, 210.14 (Abstract).
- HARTLEY, K. (1990) Solar system chaos. *Astronomy* **18**, no. 5, 34–39.
- HARTMAN, R.F. AND DAROOKA, D.K. (1994) RTG characteristics for Pluto Fast Flyby and MESUR missions. *Space nuclear power and propulsion: eleventh symposium. AIP Conference Proceedings* **301**, 359–364.
- HARTMANN, W.K. (1998) The great solar system revision. *Astronomy* **26**, no. 8, 40–45.
- HASKINS, C.B. AND MILLARD, W.P. (2004) X-band digital receiver for the New Horizons spacecraft. *Proceedings of the 2004 IEEE Aerospace Conference* **3**, 1488.
- HASKINS, C.B., MILLARD, W.P., AND JENSEN, J.R. (2006) Flexible coherent digital transceiver for low power space missions. *Proceedings of the 2006 IEEE Aerospace Conference* **1**, 1–8.
- HASKINS, C.B., MILLARD, W.P., AND DEBOY, C.C. (2007) "Microwave technologies for the New Horizons Mission to Pluto." Paper given at *Microwave Symposium, 2007. IEEE/MTT-S International*, Honolulu, HI (June 2007), 935–938.
- HASKINS, C.B., DUVEN, D.J., DEBOY, C.C., AND JENSEN, J.R. (2012) "First deep-space flight demonstration of Regenerative pseudo-noise ranging." Paper given at *Proceedings of the Aerospace Conference, 2012 IEEE. 03–10 March 2012. Big Sky, MT, 1–6.*, .
- HATANAKA, Y., KIKUCHI, AND S. KONNO, M. (1973) An expected occultation of a star by Pluto. I. A Photoelectric observation. *Tokyo Astron. Bull.* **226**, 2623–2636.
- HAUBOLD, H.J. AND MIKHAIL, J.S., EDS. (1994) Basic space science. Proceedings of the Fourth United Nations/European Space Agency Workshop. Cairo, Egypt 27 June–01 July 1994. *Earth, Moon, and Planets* **70**, No. 1–3, XI+229 p.
- HAW, R.J. (1995) Mission to Pluto: a navigation assessment. *Adv. in Astronautical Sci.* **89**, Part I, 285–297.
- HAYES, A.G. (2018) Dunes across the Solar System. *Science* **360**, no. 6392960.
- HAYES, W. AND TREMAINE, S. (1998) Fitting selected random planetary systems to Titius–Bode laws. *Icarus* **135**, 549–557.
- HE, C. AND HORST, S. (2016) Carbon monoxide affecting planetary atmospheric chemistry. *Bull. Amer. Astron. Soc.* **48**, no. 7, 253–254 (Abstract).
- HE, C., HORST, S.M., LEWIS, N.K., YU, X., MOSES, J.I. (2019) Photochemical haze formation in exoplanet atmospheres: insight from laboratory simulations. *AGU Fall Meeting Abstracts* **P11D**, 3478 (Abstract).
- HEAD, R. (2000) Review: Manchester: Colin Metthew's 'Pluto'. *Tempo (New Series)* **213**, 48.

- HECHLER, F. (1991) “Single and coupled missions to sun and Pluto.” Paper given at *Spaceflight mechanics 1991; Proceedings of the 1st AAS/AIAA Annual Spaceflight Mechanics Meeting*, Houston, TX, Feb. 11-13, 1991. Pt. 2 (A93-17901 05-13), p. 1203–1221.
- HECHT, J. AND HENBEST, N. (1991) Ice dwarfs at the edge of the solar system. *New Scientist* **131**, no. 1777, 24.
- HECHT, J. (1992) ... While mappers track planet’s surface. *New Scientist* **134**, no. 1826, 19.
- HECHT, J. (1995) Repaired Hubble Space Telescope comes through. *Laser Focus World* **31**, no. 2, 57–59.
- HECHT, J. (1997) Icy world’s clue to Pluto’s origins. *New Scientist* **154**, 18.
- HEDGEPEETH, J.E., NEISH, C.D., AND BRAY, V.J. (2021) Nitrogen’s role in the degradation of craters on Pluto. *Lunar & Planetary Sci.* **52**, 2555 (Abstract).
- HEDGEPEETH, J.E., NEISH, C.D., AND BRAY, V.J. (2023) Impact crater morphometry on Pluto: implications for surface composition and evolution. *Planetary Sci. Jour.* **4**, no. **10**, 190.
- HEGE, E.K., HUBBARD, E.N., DRUMMOND, J.D., STRITTMATTER, P.A., WORDEN, S.P., AND LAUER, T. (1982) Speckle interferometric observations of Pluto and Charon. *Icarus* **50**, 72–81.
- HEGE, E.K. AND DRUMMOND, J. (1984) Pluto. *IAU Circular No. 3986*, 1.
- HEGE, E.K., STRITTMATTER, P.A., AND WOLF, N.J. (1984) Investigations of high resolution imaging through the Earth’s atmosphere using speckle interferometry (Final Report, 1 Feb. 1982–31 Jan. 1984). *Univ. Arizona, Tucson*.
- HEGGE, M.J., BAER, J.W., HARDAWAY, L.M.R., TAUDIEN, G., SABATKE, D.S., SHIDEMANTLE, S.R., SANTMAN, J.J., COMSTOCK, L.E. (2005) Diamond turned, light weight, athermal, visible TMA telescope for the planned New Horizons mission to Pluto. *Proc. SPIE* **5877**, 195–203.
- HEISER, E. (1974) Ein blick auf Pluto. *Sterne und Weltram* **13**, 304, 306, 334.
- HELLER, R., ANGLADA-ESCUDE, G., HIPPE, M., AND KERVELLA, P. (2020) Low-cost precursor of an interstellar mission. *Astron. Astrophys.* **641**, A45.
- HELLWEG, J.F. (1931) Twenty-six-inch equatorial. In *Annual Report of the Naval Observatory for the Fiscal Year 1930*, 15.
- HELLWEG, J.F. (1931) Ten-inch photographic telescope. In *Annual Report of the Naval Observatory for the Fiscal Year 1930*.
- HELLWEG, J.F. (1932) Astrophysics Division. In *Annual Report of the Naval Observatory for the Fiscal Year 1931*.
- HÉNAULT, E., URSO, R.G., BAKLOUTI, D., DJOUADI, Z., BRUNETTO, R., DALLE ORE, C., AND RICCA, A. (2022) Spectroscopic study of proton-irradiated water-methanol ice mixtures in support of TNOs’ and Centaurs’ observations. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, B1.2-0008-22*, (Abstract).
- HENBEST, N. (1980) Pluto is a double planet. *New Scientist* **88**, no. 1221, 20.
- HENBEST, N. (1983) Pursuing Persephone. *New Scientist* **100**, no. 1384, 527.
- HENBEST, N. (1987) Pluto is a dense world. *Jour. Brit. Astron. Assoc.* **97**, no. 2, 72–73.
- HENBEST, N. (1987) Smallest planet gains weight. *New Scientist* **113**, no. 1542, 35.
- HENBEST, N. (1987) Pluto has ice caps and thin air. *New Scientist* **116**, no. 15, 30.
- HENBEST, N. (1989) Pluto: the planet that came in from the cold. *New Scientist* **122**, no. 1662, 39–44.
- HENBEST, N. (1990) Rocky dwarfs and gassy giants. *New Scientist* **125**, no. 1703, S1–S4.
- HENBEST, N. (1991) Say goodbye to the tenth planet. *New Scientist* **132**, no. 1797, 21.
- HENBEST, N. (1994) “Pluto.” In *The planets*. (London, Penguin Books), 172–179.
- HENBEST, N. (1995) Day and night. *Focus—the magazine of discovery* **???**, 78.

- HENDRIX, A.R., HURFORD, T.A., BARGE, L.M., BLAND, M.T., BOWMAN, J.S., BRINCKERHOFF, W., BURATTI, B.J., CABLE, M.L., CASTILLO-ROGEZ, J., COLLINS, G.C., DINIEGA, S., GERMAN, C.R., HAYES, A.G., HOEHLER, T., HOSSEINI, S., HOWETT, C.J.A., MCEWEN, A.S., NEISH, C.D., NEVEU, M., NORDHEIM, T.A., PATTERSON, G.W., PATTHOFF, D.A., PHILLIPS, C., RHODEN, A., SCHMIDT, B.E., SINGER, K.N., SODERBLOM, J.M., AND VANCE, S.D. (2019) The NASA Roadmap to Ocean Worlds. *Astrobiology* **19**, no. 1, 1–27.
- HENDRICKS, T.J., CHENDONG H, AND SIEVERS, R.K. (1997) AMTEC radioisotope power system design and analysis for Pluto Express Fly-By. *32th Intersociety Energy Conversion Engineering Conference* **1**, 501–508.
- HENSLEY, K. (2022) A framework for exploring ocean worlds. *AAS Nova Highlight* **26 Jan 2022**, 8860.
- HENRY, P.K. (1993) The Pluto Fast Flyby ionosphere from radio occultation measurements with New HorizonsMission: completing the reconnaissance of the solar system. *Proceedings of the Workshop on Microtechnologies and Applications to Space Systems NASA, Pasadena, CA*, 13 (Abstract).
- HENRY, P.K., TERRILE, R.J., MADDOCK, R.W., AND SOBEL, H.R. (1999) Exploring the Kuiper Belt: an extended Pluto mission. *Acta Astron.* **44**, 85–90.
- HENSLEY, K. (2021) Featured image: a Charon-lit view of Pluto. *AAS Nova Highlight* **01 Nov 2021**, 8571.
- HERCZEG, T. (1968) “Planetary cosmogonies.” In *Vistas in Astronomy*, ed. 10 (no. 1, 175–206), pp. .
- HERGET, P. (1980) Book Review: *Planets X and Pluto*, by A.J. Whyte. Toronto, Permagon Press. 155 pp. *Sky and Tel.* **60**, 55–56.
- HERMANN, J. (1980) Planet Pluto. *Astron. Schule* **17**, 101–104.
- HERRICK-GLEASON, E. (2024) Ask Astro. *Astronomy* **52**, no. 5, 52..
- HERRMANN, J. (1969) Neu massenbestimmung an Pluto. *Sterne und Weltram* **8**, 109.
- HERSMAN, C.B. (2006) “2006” Paper given at *Optimization of the New Horizons spacecraft power demand for a single radioisotope.*, 57th International Astronautical Congress Valencia, Spain, IAC paper #06-C3.4.05.
- HETHERINGTON, N.S. (1992) Book Review: *Clyde Tombaugh: discoverer of Planet Pluto*, by D.H. Levy Univ. of Arizona Press, Tucson. 211 pp. *Isis* **83**, 515.
- HETTERICH, N. AND WEIGELT, G. (1983) Speckle interferometry observations of Pluto’s moon Charon. *Astron. Astrophys.* **125**, 246–248.
- HIDE, R. (1997) Percival Lowell, Clyde Tombaugh and the naming of Pluto. *Astronomy and Geophysics* **38**, 9.
- HICKS, M.D., BURATTI, B.J., GILLAM, S.D., YOUNG, J. W., AND SOMERS, J.F. (2008) Support observations for New Horizons: Pluto’s solar phase curve as measured by the Cassini spacecraft and a new ground-based optical lightcurve. *Bull. Amer. Astron. Soc.* **40**, 460 (Abstract).
- HILDRETH, S. (1990) The Hubble Space Telescope shows off! *Mercury* **19**, 174–177.
- HILDEBRAND, A.R. (1986) Tests of a large impact origin for the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **18**, 822 (Abstract).
- HILL, M.E., HAGGERTY, D.K., MCNUTT, R.L., AND PARANICAS, C.P. (1999) Energetic particle evidence for magnetic filaments in Jupiter’s magnetotail. *Jour. Geophys. Res.* **114**, A11201.
- HILL, M.E., HAMILTON, D.C., MCNUTT, R.L., AND DECKER, R.B. (2010) Suprathermal ion spectral tails throughout the heliosphere: to 9 AU with Cassini, to 17 AU with New Horizons, and in the outer heliosphere and heliosheath with Voyager 1 and 2. *AGU Fall Meeting Abstracts* **SH21A**, 1793 (Abstract).

- HILL, M.E., KOLLMAN, P., MCNUTT, R.L., SMITH, H.T., BAGENAL, F., BROWN, L.E., ELLIOT, H.A., HAGGERTY, D.K., HORANYI, M., KRIMIGIS, S.M., KUSTERER, M., LISSE, C.M., MCCOMAS, D.J., PIQUETTE, M., STROBEL, D., SZALAY, J., VANDEGRIFF, J., ZIRNSTEIN, E., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND STERN, S.A. (2015) Pluto, near and far: PEPSSI measurements of energetic particles during the New Horizons flyby. *Bull. Amer. Astron. Soc.* **47**, 210.26 (Abstract).
- HILL, M.E., ALLEN, R.C., KOLLMANN, P., BROWN, L.E., DECKER, R.B., MCNUTT, JR., R.L., KRIMIGIS, S.M., ANDREWS, G.B., BAGENAL, F., CLARK, G., ELLIOTT, H.A., JASKULEK, S.E., KUSTERER, M.B., LESKE, R.A., LISSE, C.M., MEWALDT, R.A., NELSON, K.S., RICHARDSON, J.D., ROMEO, G., SALAZAR, N.A.VANDEGRIFF, J.D., BERNARDONI, E.A., GLADSTONE, G.R., HORANYI, M., LINSKOTT, I.R., SINGER, K.N., STEFFL, A.J., SUMMERS, M.E., THROOP, H.B., YOUNG, L.A., OLKIN, C.B., PARKER, J.W., SPENCER, J.R., STERN, S.A., VERBISCHER, A.J., AND WEAVER, H.A. (2020) Influence of solar disturbances on galactic cosmic rays in the solar wind, heliosheath, and local interstellar medium: advanced composition Explorer, New Horizons, and Voyager observations. *Astrophys. Jour.* **901**, no. 1, 69.
- HILL, M.L. (2007) "New Horizons spacecraft comprehensive performance test development." Paper given at *Autotestcon, 2007 IEEE. 17–20 March 2007, Baltimore, MD, 418–424*, .
- HILLIER, J.H., BURATTI, B.J., HOFGARTNER, J.D., HICKS, M.D., DEVINS, S, AND KIVRAK, L. (2021) Characteristics of Pluto’s haze and surface from an analytic radiative transfer model. *Planetary Sci. Jour.* **2**, no. 1, 11.
- HILLIER, J.H., BURATTI, B.J., HOFGARTNER, J.D., HICKS, M.D., DEVINS, S., AND KIVRAK, L. (2021) Characteristics of Pluto’s haze and surface from an analytic radiative transfer model. *Planetary Sci. Jour.* **2**, no. 1, 11.
- HILTON, J.L. AND MURISON, M.A. (1999) Optimized Chebyshev polynomial representations of ephemerides. *Bull. Amer. Astron. Soc.* **31**, 1230 (Abstract).
- HIND, J.R. (1851) Letter from Mr. Hind to the Editor. *Astron. Jour.* **2**, 78.
- HINSON, D.H. (1983) Beyond Pluto. *Spaceflight* **25**, 146–148.
- HINSON, D.P., LINSKOTT, I., WOODS, W.W., TYLER, G.L., BIRD, M.K., PAETZOLD, M., AND STROBEL, D.F. (2014) The New Horizons Radio Science Experiment: expected performance in measurements of Pluto’s atmospheric structure, surface pressure, and surface temperature. *AGU Fall Meeting Abstracts P31E*, 06 (Abstract).
- HINSON, D.P., LINSKOTT, I., TYLER, L., BIRD, M., PAETZOLD, M., STROBEL, D., SUMMERS, M., WOODS, W., STERN, A., WEAVER, H., OLKIN, C., YOUNG, L., ENNICO, K., GLADSTONE, R., GREATHOUSE, T., KAMMER, J., PARKER, A., PARKER, J., RETHERFORD, K., SCHINDHELM, E., SINGER, K., STEFFL, A., TSANG, C., AND VERSTEEG, M. (2015) Radio occultation measurements of Pluto’s atmosphere with New Horizons. *Bull. Amer. Astron. Soc.* **47**, 105.01 (Abstract).
- HINSON, D.P., LINSKOTT, I., YOUNG, L., STERN, S.A., BIRD, M., ENNICO, K., GLADSTONE, R., OLKIN, C.B., PÄTZOLD, M., STROBEL, D.F., SUMMERS, M., TYLER, G.L., WEAVER, H.A., WOODS, W., AND THE NEW HORIZONS SCIENCE TEAM. (2016) Radio occultation measurements of Pluto’s atmosphere with New Horizons. *Bull. Amer. Astron. Soc.* **48**, no. 7, 144–145 (Abstract).
- HINSON, D.P., LINSKOTT, I.R., YOUNG, L.A., TYLER, G.L., STERN, S.A., BEYER, R.A., BIRD, M.K., ENNICO, K., GLADSTONE, G.R., OLKIN, C.B., PÄTZOLD, M., SCHENK, P.M., STROBEL, D.F., SUMMERS, M.E., WEAVER, H.A., AND WOODS, W.W. (2017) Radio occultation measurements of Pluto’s neutral atmosphere with New Horizons. *Icarus* **290**, 96–111 (Abstract).
- HINSON, D.P., LINSKOTT, I.R., STROBEL, D.F., TYLER, G.L., BIRD, M.K., PÄTZOLD, M., SUMMERS, M.E., STERN, S.A., ENNICO, K., GLADSTONE, G.R., OLKIN, C.B., WEAVER, H.A., WOODS, W.W., YOUNG, L.A., THE NEW HORIZONS SCIENCE TEAM. (2018) An upper limit on Pluto’s ionosphere from radio occultation measurements with New Horizons. *Icarus* **307**, 17–24.

- HIRABAYASHI, M., TROWBRIDGE, A.J., AND BODEWITS, D. (2020) The mysterious location of Maryland on 2014 MU69 and the Reconfiguration of Its Bilobate Shape. *Astrophys. Jour. Lett.* **891**, no. 1, L12.
- HOBART, J. (2005) Pluto Observations [G89 Kachina Observatory]. *Minor Planet Circular* 54344, 4.
- HOCKEY, T. (2020) How Pluto got its name: an investigation into causation. *Bull. Amer. Astron. Soc.* **52**, no. 1, 139.06 (Abstract).
- HOCKEY, T. (2020) “Foundling of Percival Lowell”: The saga of naming Pluto. *Jour. Astronomical History and Heritage* **23**, no. 1, 2–25.
- HODGE, C. (1994) A pantheon to the pioneers of astronomy. *Arizona Highways* **70**, no. 5, 20–23.
- HODGKINSON, G.J. (1986) The outer planets. *Jour. Brit. Astron. Assoc.* **96**, 62–63.
- HOERNIG, G. (2001) A hike in the Kuiper Belt. *Sky and Tel.* **101**, no. 3, 14 (Letter to editor).
- HOEY, W.A., YEOH, S.K., TRAFTON, L.M., GOLDSTEIN, D.B., AND VARGHESE, P.L. (2016) Rarefied gas dynamic simulation of transfer and escape in the Pluto–Charon system with the DSMC method. *Lunar & Planetary Sci.* **47**, 3031 (Abstract).
- HOEY, W.A., YEOH, S.K., TRAFTON, L.M., GOLDSTEIN, D.B., AND VARGHESE, P.L. (2017) Rarefied gas dynamic simulation of transfer and escape in the Pluto–Charon system. *Icarus* **287**, 87–102.
- HOFFLEIT, D. (1950) Planet Trans-Pluto? In “News Notes,” *Sky and Tel.* **9**, no. 5, 165.
- HOFFLEIT, D. (1950) Pluto’s diameter. In “News Notes,” *Sky and Tel.* **9**, 215.
- HOFFLEIT, D. (1956) The rotation of Pluto. In “News Notes,” *Sky and Tel.* **15**, 121.
- HOFFLEIT, D. (1956) More satellites? In “News Notes,” *Sky and Tel.* **15**, 159.
- HOFFLEIT, D. (1956) Diameter of Pluto. In “News Notes,” *Sky and Tel.* **15**, 159.
- HOFFLEIT, D. (1956) Origin of Pluto. In “News Notes,” *Sky and Tel.* **15**, 255.
- HOFFLEIT, D. (1992) “Asteroids and Brown’s other 3-body problems. Ch. 16” In *Astronomy at Yale, 1701–1968* (Conn. Acad. Arts Sci.), 105–114.
- HOFFLEIT, D. (1992) “Preeminence of celestial mechanics in the Brouwer era. Ch. 21” In *Astronomy at Yale, 1701–1968* (Conn. Acad. Arts Sci.), 146–155.
- HOFFMANN, M., FINK, U., AND HICKS, M. (1993) Are there relationships between 5145 Pholus and the Pluto–Charon system? *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- HOFGARTNER, J.D., BURATTI, B.J., SPENCER, D., BEYER, R.A., ENNICO, K., OLKIN, C.B., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING SCIENCE THEME TEAMS. (2016) A search for temporal changes on Pluto and Charon. *Bull. Amer. Astron. Soc.* **48**, no. 7, 147 (Abstract).
- HOFGARTNER, J.D., BURATTI, B.J., DEVINS, S., BEYER, R.A., SCHENK, P., STERN, S.A., WEAVER, H.A., OLKIN, C., CHENG, A.F., ENNICO, K., LAUER, T.R., SPENCER, J.R., AND YOUNG, L. (2017) A search for temporal changes on Pluto and Charon. *Bull. Amer. Astron. Soc.* **49**, 102.01 (Abstract).
- HOFGARTNER, J.D., BURATTI, B.J., DEVINS, S., BEYER, R.A., SCHENK, P., STERN, S.A., WEAVER, H.A., OLKIN, C., CHENG, A.F., ENNICO, K., LAUER, T.R., MCKINNON, W.B., SPENCER, J.R., AND YOUNG, L.A., AND THE NEW HORIZONS TEAM. (2018) A search for temporal changes on Pluto and Charon. *Icarus* **302**, 273–284.
- HOFGARTNER, J.D., BURATTI, B.J., HAYNE, P.O., AND YOUNG, L.A. (2018) Ongoing resurfacing of KBO Eris by volatile transport in local, collisional, sublimation atmosphere regime. *Icarus* **334**, 52–61.
- HOFGARTNER, J.D., BURATTI, B.J., BUIE, M.W., BRAY, V.J., AND LELLOUCH, E. (2019) Future spacecraft missions to the Pluto system. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7022 (Abstract).

- HOFGARTNER, J.D., BURATTI, B.J., WEAVER, H.A., CHENG, A.F., LISSE, C.M., VERBISCHER, A.J., BEYER, R.A., STERN, S.A., OLKIN, C.B., SPENCER, J.R., PARKER, J.W., KAVELAARS, J.J., BINZEL, R.P., NEW HORIZONS GEOLOGY, GEOPHYSICS TEAM, AND NEW HORIZONS LORRI TEAM. (2019) Photometry of Kuiper Belt Object Ultima Thule and comparisons with cognate solar system objects. *Lunar & Planetary Sci.* **50**, 2257 (Abstract).
- HOFGARTNER, JASON D., BURATTI, BONNIE J., BENECHCHI, SUSAN D., BEYER, ROSS A., CHENG, ANDREW, KEANE, JAMES T., LAUER, TOD R., OLKIN, CATHERINE B., PARKER, JOEL W., SINGER, K.N., SPENCER, J.R., STERN, S.A., VERBISCHER, A.J., WEAVER, H.A., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS TEAM. (2021) Photometry of Kuiper belt object (486958) Arrokoth from New Horizons LORRI. *Icarus* **356**, 113723.
- HOFGARTNER, J.D., BIRCH, S.P.D., CASTILLO, J., GRUNDY, W.M., HANSEN, C.J., HAYES, A.G., HOWETT, C.J.A., HURFORD, T.A., MARTIN, E.S., MITCHELL, K.L., NORDHEIM, T.A., POSTON, M.J., PROCKTER, L.M., QUICK, L.C., SCHENK, P., SCHINDHELM, R.N., AND UMURHAN, O.M. (2022) Hypotheses for Triton’s plumes: new analyses and future remote sensing tests. *Icarus* **375**, 114835.
- HOFGARTNER, J.D., BIRCH, S.P.D., CASTILLO, J., GRUNDY, W.M., HANSEN, C.J., HAYES, A.G., HOWETT, C.J.A., HURFORD, T.A., MARTIN, E.S., MITCHELL, K.L., NORDHEIM, T.A., POSTON, M.J., PROCKTER, L.M., QUICK, L.C., SCHENK, P., SCHINDHELM, R.N., AND UMURHAN, O.M. (2021) Hypotheses for Triton’s plumes: New analyses and future remote sensing tests. *Icarus*, in press.
- HOGAN, A.R. (1991) Pluto: eight down, one to go. *Ad Astra* **3**, 24–29.
- HOGAN, A.R. (1991) Clyde William Tombaugh. *Ad Astra* **3**, no. 6, 19.
- HOGAN, J. (2006) Pluto: the backlash begins. *Nature* **442**, 965.
- HOGAN, J. (2006) Diary of a planet’s demise. *Nature* **442**, 966–967.
- HOGENBOOM, D.L., KERDEL, J.S., CONSOLMAGNO, G.J., HOLDEN, T.C., LEE, L., AND BUYOUNOUSKI, M. (1997) The ammonia–water system and the chemical differentiation of icy satellites. *Icarus* **128**, 171–180.
- HOGG, D.W., QUINLAN, G.D., AND TREMAINE, S. (1991) Dynamical limits on dark mass in the outer solar system. *Astron. Jour.* **101**, 2274–2286.
- HOGUE, P. (2006) New Horizons Pluto lessons learned during ground processing. *Proc. SPIE* **6291**, 9 (Abstract).
- HOLDEN, C. (1996) Pluto revealed, a little. *Science* **271**, 1501.
- HOLDEN, C. (2000) Pluto to the doghouse. *Science* **287**, 1743.
- HOLDEN, C. (2007) Rehabilitating Pluto. *Science* **315**, 1643.
- HOLLER, B.J., OLKIN, C.B., YOUNG, L.A., GRUNDY, W.M., AND BAGENAL, F. (2013) Longitudinal variation of ethane ice on the surface of Pluto. *Bull. Amer. Astron. Soc.* **45**, 310.04 (Abstract).
- HOLLER, B.J. (2016) *Comparative KBology: Using surface spectra of Triton, Pluto, and Charon to investigate atmospheric, surface, and interior processes on Kuiper Belt Objects*. Ph.D. dissertation, University of Colorado at Boulder, Boulder, CO.
- HOLLER, B.J., YOUNG, L.A., BUIE, M.W., GRUNDY, W.M., LYKE, J.E., YOUNG, E.F., AND ROE, H.G. (2016) Measuring temperature and ammonia hydrate ice on Charon in 2015 from Keck/OSIRIS spectra. *Icarus* **284**, 394–406.
- HOLMAN, M.J. AND PAYNE, M.J. (2016) Observational constraints on Planet Nine: astrometry of Pluto and other Trans-Neptunian Objects. *Astron. Jour.* **152**, no. 4, 80.
- HOLLER, B.J., GRUNDY, W.M., YOUNG, L.A., AND OLKIN, C.B. (2014) “Longitudinal variability of ethane ice on the surface of Triton.” Paper given at *Workshop on the Study of the Ice Giant Planets, held July 28-30, 2014*, Laurel, Maryland. 2010.

- HOLLER, B.J., YOUNG, L.A., BUIE, M.W., YOUNG, E.F., AND ROE, H.G. (2014) Medium-resolution (3800) Near-infrared Spectrum of Charon from 1.47–2.38 μm . *Bull. Amer. Astron. Soc.* **46**, 40.403 (Abstract).
- HOLLER, B.J., YOUNG, L.A., GRUNDY, W.M., OLKIN, C.B., AND COOK, J.C. (2014) Evidence for longitudinal variability of ethane ice on the surface of Pluto. *Icarus* **243**, 104–110.
- HOLLER, B.J., GRUNDY, M.W., AND NOLL, K. (2018) Breaking the degeneracy of Eris’ pole orientation. *Bull. Amer. Astron. Soc.* **50**, 509.03 (Abstract).
- HOLLER, B.J., YANEZ, M.D., YOUNG, L.A., VERBISCHER, A.J., CHANOVER, N.J., AND OLKIN, C.B. (2019) Evaluation of short-term temporal evolution of Pluto’s surface from 2014–2017. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7068 (Abstract).
- HOLLER, B., GRUNDY, W., MURRAY, K., YOUNG, L., PORTER, S., BUIE, M., NOLL, K., AND MOMMERT, M. (2020) New insights into the Eris/Dysnomia system. *Bull. Amer. Astron. Soc.* **52**, no. 1, 278.06 (Abstract).
- HOLLER, B.J., YANEZ, M.D., PROTOPAPA, S., YOUNG, L.A., VERBISCHER, A.J., CHANOVER, N.J., AND GRUNDY, W.M. (2022) Evaluation of short-term temporal evolution of Pluto’s surface composition from 2014–2017 with APO/TripleSpec. *Icarus* **373**, 114729.
- HOLLIS, A.J. (1998) Book Review: *Pluto and Charon*, Ed. S.A. Stern and D.J. Tholen, University of Arizona Press, Tucson, AZ. 728 pp. *Jour. Brit. Astron. Assoc.* **108**, no. 4, 229.
- HOLLIS, A.J. (1999) The status of Pluto and other solar system bodies (Letter to editor). *Jour. Brit. Astron. Assoc.* **109**, 931.
- HOLLIS, A.J. (1999) From the darkness emerging: Pluto and the Edgeworth–Kuiper belt. *Jour. Brit. Astron. Assoc.* **109**, 9–13.
- HOLLIS, M. (2022) Super-sized sublimation on Pluto. *Nature Astronomy* **6**, 10.
- HOLTZMAN, D. (2002) Look! Up in the sky! It’s a bird! It’s a planet. It’s a very large ball of ice! It’s Pluto with its moon Charon. *Smithsonian* **32**, no. 12, (March issue).
- HOOVER, R., STERN, S., KEENEY, B., PROTOPAPA, S., AND THE NEW HORIZONS TEAM. (2020) Pluto’s dark heart? Spectral properties of large pits in Sputnik Planitia. *Bull. Amer. Astron. Soc.* **52**, no. 6, 310.06 (Abstract).
- HONG-NAN, Z. (1980) Range of variation in the latitudes and inclinations of Jupiter-Saturn and Neptune-Pluto systems. *Chinese Astronomy* **4**, 122–126.
- HOPPE, J. (1974) Are there planets beyond the orbit of Pluto? *Astron. und Raumfahrt* **5**, 131–136.
- HORÁNYI, M., HOXIE, V., JAMES, D., POPPE, A., BRYANT, C., GROGAN, B., LAMPRECHT, B., MACK, J., BAGENAL, F., BATISTE, S., BUNCH, N., CHANTHAWANICH, T., CHRISTENSEN, F., COLGAN, M., DUNN, T., DRAKE, G., FERNANDEZ, A., FINLEY, T., HOLLAND, G., JENKINS, A., KRAUSS, C., KRAUSS, E., KRAUSS, O., LANKTON, M., MITCHELL, C., NEELAND, M., REESE, T., RASH, K., TATE, G., VAUDRIN, C., AND WESTFALL, J. (2008) The Student Dust Counter on the New Horizons Mission. *Spa. Sci. Rev.* **140**, 387–402.
- HORÁNYI, M., POPPE, A., AND SZALAY, J. (2011) Dust measurements by the Student Dust Counter on-board the New Horizons mission. *EPSC Abstracts* **6**, 1711 (Abstract).
- HORANYI, M., POPPE, A., AND STERNOVSKY, Z. (2016) Dust ablation in Pluto’s atmosphere. *Geophys. Res. Abstracts* **18**, EGU2016–3652 (Abstract).
- HORED, G. (1974) Mass loss in the plane circular restricted three-body problem: application to the origin of the Trojans and of Pluto. *Icarus* **23**, 459–464.
- HORGAN, J. (1987) Pluto’s poles. *Sci. Amer.* **257**, no. 5, 24a–27d.
- HORI, G. AND GIACAGLIA, G.E.O. (1968) “Secular perturbations of Pluto.” In *Research in Celestial Mechanics and Differential Equations* (Univ. of São Paulo. CEMC-IPM-USP, Vol. 1), 4–24.

- HORNE, K., BUIE, M.W., AND THOLEN, D.J. (1988) Maximum entropy maps of Pluto and Charon from mutual events light curves. *Bull. Amer. Astron. Soc.* **20**, 1089 (Abstract).
- HÖRST, S.M., HE, C., LEWIS, N.K., KEMPTON, E.M.-R., MARLEY, M.S., MORLEY, C.V., MOSES, J.I., VALENTI, J.A., VUITTON, V. (2018) Haze production in the atmospheres of super-Earths and mini-Neptunes: insights from the lab. *Nature Astronomy* **2**, 303–306.
- HORSTMAN, H.S. (1996) Planets, satellites, and their atmospheres. *Bull. Amer. Astron. Soc.* **28**, 267.
- HORSTMAN, H.S. (2001) Research. In “Observatory Reports,” Lowell Observatory *Bull. Amer. Astron. Soc.* **33**, 179 (Abstract).
- HOULIHAN, D., SYMONS, T., AND ZEMCOV, M. (2021) An assessment of the LEISA spectrometer for extragalactic background light measurements. *Res. Notes of the Amer. Astron. Soc.* **5**, no. 8, 187.
- HOWARD, A.D., MOORE, J.M., WHITE, O.L., UMURHAN, O., SCHENCK, P., BEYER, R., MCKINNON, W., SINGER, K., SPENCER, J., STERN, S.A., WEAVER, H., YOUNG, L., SMITH, K.E., OLKIN, C., AND NEW HORIZONS SCIENCE TEAM. (2016) Present and past glaciation on Pluto. *Lunar & Planetary Sci.* **47**, 1089 (Abstract).
- HOWARD, A.D., MOORE, J.M., UMURHAN, O.M., WHITE, O.L., ANDERSON, R.S., MCKINNON, W.B., SPENCER, J.R., SCHENCK, P.M., BEYER, R.A., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SCIENCE TEAM. (2017) Present and past glaciation on Pluto. *Icarus* **287**, 287–300.
- HOWARD, A.D., MOORE, J.M., WHITE, O.L., UMURHAN, O.M., SCHENCK, P.M., GRUNDY, W.M., SCHMITT, B., PHILIPPE, S., MCKINNON, W.B., SPENCER, J.R., BEYER, R.A., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., AND YOUNG, L.A. (2017) Pluto: pits and mantles on uplands north and east of Sputnik Planitia. *Icarus* **293**, 218–230.
- HOWARD, A.D. AND MOORE, J.M. (2019) Climate history of Pluto as revealed by its landscapes. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7010 (Abstract).
- HOWELL, S.B., HORSCH, E.P., EVERETT, M.E., AND CIARDI, D.R. (2012) Speckle camera imaging of the planet Pluto. *Pub. Astron. Soc. Pacific* **124**, 1124–1131.
- HOWETT, C.J.A., OLKIN, C.B., GRUNDY, W.M., PARKER, A.H., ENNICO, K., STERN, S.A., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A., JENNINGS, D.E., LINSKOTT, I., LUNSFORD, A.W., PARKER, J.W., PROTOPAPA, S., REUTER, D.C., SINGER, K.N., SPENCER, J.R., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., AND YOUNG, L.A. (2015) Charon’s color: a view from New Horizons Ralph/Multispectral Visible Imaging Camera. *Bull. Amer. Astron. Soc.* **47**, 102.05 (Abstract).
- HOWETT, C.J.A., PARKER, A.H., OLKIN, C.B., REUTER, D.C., ENNICO, K., GRUNDY, W.M., GRAPS, A.L., HARRISON, K.P., THROOP, H.B., BUIE, M.W., LOVERING, J.R., PORTER, S.B., WEAVER, H.A., YOUNG, L.A., STERN, S.A., BEYER, R.A., BINZELL, R.P., BURATTI, B.J., CHENG, A.F., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., JENNINGS, D.E., LINSKOTT, I.R., LUNSFORD, A.W., PARKER, J.W.M., PHILIPPE, S., PROTOPAPA, S., QUIRICO, E., SCHENCK, P.M., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., TSANG, C.C.C., WEIGLE, II., G.E. AND VERBISCHER, A.J. (2017) Inflight radiometric calibration of New Horizons’ Multispectral Visible Imaging Camera (MVIC). *Icarus* **287**, 140–151.
- HOWETT, C.J.A., ENNICO, K., OLKIN, C.B., BUIE, M.W., VERBISCHER, A.J., ZANGARI, A.M., PARKER, A.H., REUTER, D.C., GRUNDY, W.M., WEAVER, H.A., YOUNG, L.A., AND STERN, S.A. (2017) Charon’s light curves, as observed by New Horizons Ralph color camera (MVIC) on approach to the Pluto system. *Icarus* **287**, 152–160.
- HOWETT, C.J.A., OLKIN, C.B., PROTOPAPA, S., GRUNDY, W.M., VERBISCHER, A., AND BURATTI, B.J. (2019) Charon’s colors and photometric properties. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7015 (Abstract).

- HOWETT, C.J.A., PARKER, A.H., OLKIN, C.B., PROTOPAPA, S., GRUNDY, W., SCHMITT, B., KAVELAARS, J., BRITT, D., PARKER, J.W., REUTER, D., STERN, S.A., SPENCER, J.R., VERBISCHER, A.J., AND WEAVER, H.A. (2019) Colors of (486958) 2014 MU69 as observed by New Horizons' Multi-Spectral Visible Imaging Camera (MVIC). *Lunar & Planetary Sci.* **50**, 1982 (Abstract).
- HOWETT, C.J.A., ROBBINS, S., ELLIOT, H., ERNEST, C.M., HENDRIX, A., HOLLER, B., MCKINNON, W.B., NIMMO, F., PROTOPAPA, S., PORTER, S., RADEBAUGH, J., SINGER, K., SPENCER, J.R., STERN, S.A., TUCKER, O.J., VERBISCHER, A., WILSON, R.J., AND YOUNG, L.A. (2020) Combined Pluto Orbiter and Kuiper Belt Exploration Mission. *Lunar & Planetary Sci.* **51**, 1342 (Abstract).
- HOWETT, C.J.A., ROBBINS, S., FIELHAUER, K., APLAND, C., AND THE PERSEPHONE SCIENCE TEAM. (2020) "Persephone: a Pluto-system orbiter and Kuiper Belt explorer." Paper given at *Outer Planets Assessment Group (Fall 2020), held virtually 1-3 September, 2020.*, LPI Contribution No. 2547, id. 6032.
- HOWETT, C.J.A., ROBBINS, S.J., HOLLER, B.J., HENDRIX, A., FIELHAUER, K.B., PERRY, M.E., SIDDIQUE, F.E., APLAND, C.T., LEARY, J.C., STERN, S.A., ELLIOTT, H., NIMMO, F., PORTER, S.B., PROTOPAPA, S., SINGER, K.N., TUCKER, O.J., VERBISCHER, A.J., ANDREWS, B.B., BUSHMAN, S.S., CRIFASI, A.V., CROWLEY, D., EDWARDS, C.L., ERNST, C.M., FONVILLE, B.D., FRANKFORD, D.P., GALLAGHER, D.T., HOLDRIDGE, M.E., HUNT, JR., J.W., KAVELAARS, J.J., KRUPIARZ, C.J., KUHN, J.S., MCKINNON, W., NAIR, H., NAPOLILLO, D.H., PINEAU, J.P., RADEBAUGH, J., SHOLDER, R.O., SPENCER, J.R., THODEY, A., WALTERS, S.R., WILLIAMS, B.D., WILSON, R.J., AND YOUNG, L.A. (2021) Persephone: a Pluto-system orbiter and Kuiper Belt explorer. *Planetary Sci. Jour.* **2**, no. 2, 75.
- HOYT, W.G. AND BABBITT, A. (1973) *The early correspondence of the Lowell Observatory 1894-1916* (Lowell Observatory, Flagstaff), 222 pp pp.
- HOYT, W.G. (1976) W.H. Pickering's planetary predictions and the discovery of Pluto. *Isis* **67**, 551-564.
- HOYT, W.G. (1980) *Planets X and Pluto* (Univ. of Arizona Press, Tucson), 302 pp.
- HUANG, T.Y. AND INNANEN, K. (1996) A survey of multiderivative multistep integrators. *Astron. Jour.* **112**, 1254-1262.
- HUBBARD, W.B., HUNTEN, D.M., DIETERS, S.W., HILL, K.M., AND WATSON, R.D. (1988) Occultation evidence for an atmosphere on Pluto. *Nature* **336**, 452-454.
- HUBBARD, W.B., YELLE, R.V., AND LUNINE, J.I. (1990) Nonisothermal Pluto atmosphere models. *Icarus* **84**, 1-11.
- HUBBARD, W.B. (1989) Pluto occultations: The effect of a large near-surface temperature gradient. *Eos* **70**, 382 (Abstract).
- HUBBARD, W.B., STANSBERRY, J.A., YELLE, R.V., LUNINE, J.I., AND HUNTEN, D.M. (1993) Plutonian mirages. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10-14 (Abstract).
- HUBBARD, W.B., STANSBERRY, J.A., YELLE, R.V., AND LUNINE, J.I. (1993) Plutonian mirages. *Bull. Amer. Astron. Soc.* **25**, 1130 (Abstract).
- HUBBARD, W.B. (2003) Planetary science: Pluto's atmospheric surprise. *Nature* **424**, no. 6945, 137-138.
- HUBBARD, W.B., MCCARTHY, D.W., KULESA, C.A., BENECCHI, S.D., PERSON, M.J., ELLIOT, J.L., AND GULBIS, A.A.S. (2009) Buoyancy waves in Pluto's high atmosphere: implications for stellar occultations. *Icarus* **204**, 284-289.
- HUDSON, R.L. AND MOORE, M.H. (2001) Formation of nitrogen-bearing ions on outer solar system objects. *Bull. Amer. Astron. Soc.* **33**, 1154 (Abstract).
- HUDSON, R., GERAKINES, P.A., AND FERRANTE, R.F. (2017) New solid-phase IR spectra of solar-system molecules: methanol, ethanol, and methanehol. *Bull. Amer. Astron. Soc.* **49**, 216.08 (Abstract).
- HUDSON, R., MULLIKAN, E., MATERESE, C.K., AND GERAKINES, P. (2018) The rings of Pluto, Titan, Comets, and other solar system bodies: laboratory investigations into a neglected set of cyclic molecules. *Bull. Amer. Astron. Soc.* **50**, 504.04 (Abstract).

- HUE, V., KAMMER, J., GLADSTONE, G.R., GREATHOUSE, T.K., DAVIS, M.W., BONFOND, B., VERSTEEG, M.H., GRODENT, D., GÉRARD, J.C., BOLTON, S.J., AND LEVIN, S.M. (2018) Rosetta-Alice II: an upgraded UV spectrograph for a Rosetta-type mission. *Proc. SPIE, Space telescopes and instrumentation 2018: ultraviolet to gamma ray* **10699**, 31.
- HUE, V., GLADSTONE, G.R., GREATHOUSE, T.K., KAMMER, J.A., DAVIS, M.W., BONFOND, B., VERSTEEG, M.H., GRODENT, D.C., GÉRARD, J.C., BOLTON, S.J., LEVIN, S.M., AND BYRON, B.D. (2019) In-flight characterization and calibration of the Juno-Ultraviolet Spectrograph (Juno-UVS). *Astron. Jour.* **157**, no.2, 90.
- HUGHES, D.W. (1977) Pluto: the little-known planet. *Nature* **266**, 307–308.
- HUGHES, D.W. (1978) Pluto’s satellite. *Nature* **274**, 309.
- HUGHES, D.W. (1980) God of the underworld. *New Scientist* **85**, no. 1198, 852.
- HUGHES, D.W. (1980) Charon’s diameter. *Nature* **287**, 677-678.
- HUGHES, D.W. (1980) Speckle interferometry of Pluto. *Nature* **284**, 123.
- HUGHES, D.W. (1981) Planet X: is it necessary?. *Nature* **291**, 613–614.
- HUGHES, D.W. (1987) Pluto, Charon, and eclipses. *Nature* **327**, 102–103.
- HUGHES, D.W. (1988) Interior and origin of Pluto. *Nature* **335**, 205–206.
- HUGHES, D.W. (1993) Some cosmogonical reasons why Planet X does not exist. *Q. Jour. Roy. Astron. Soc.* **34**, 461–479.
- HUI, D., SU, Y., ELLIOTT, H., MCCOMAS, D., BAGENAL, F., AND CRARY, F. (2009) “Ion characteristics in Jupiter’s magnetotail from New Horizon data.” Paper given at *American Physical Society, 2009 Meeting of the Texas Sections of the APS, AAPT, and SPS, April 02–04, 2009*, abstract G1.003.
- HUI, D., SU, Y., ELLIOTT, H.A., MCCOMAS, D.J., BAGENAL, F., AND CRARY, F.J. (2009) Moment calculations for low energy ions in Jupiter’s magnetotail from NASA’s NEW HORIZONS Mission. *AGU Fall Meeting Abstracts* **SM23B**, 1619 (Abstract).
- HUMASON, M. (1961) “Photographs of planets with the 200-inch telescope” In *Planets and Satellites*, ed. G.P. Kuiper and B.M. Middlehurst (Univ. of Chicago Press, Chicago), pp. 572.
- HUNTEN, D.M. (1975) The outer planets. *Sci. Amer.* **233**, no. 3, 130–140.
- HUNTEN, D.M. AND WATSON, A.J. (1982) Stability of Pluto’s atmosphere. *Icarus* **51**, 665–667.
- HUNTEN, D.M., HUBBARD, W.B., DIETERS, S.W., HILL, K.M., AND WATSON, R.D. (1988) Pluto atmosphere from stellar occultation. *Bull. Amer. Astron. Soc.* **20**, 805 (Abstract).
- HUNTEN, D.M. (1995) Our planetary system: the solar system. *A.S.P. Conference Series, Airborne Astronomy Symposium on the Galactic Ecosystem: From Gas to Stars to Dust* **73**, 281–284.
- HURFORD, T., RHODEN, A., AND HENNING, W. (2014) What the surfaces of Pluto and Charon can teach us about their orbital and interior evolution. *Bull. Amer. Astron. Soc.* **46**, 419.06 (Abstract).
- HURTLEY, S. (2012) Forming the regular moons. *Sciencea* **338**, no. 6111, 1124.
- HUSSMAN, H., SOHL, F., AND SPOHN, T. (2006) Subsurface oceans and deep interiors of medium-sized outer planets and large Trans-Neptunian Objects. *Icarus* **185**, 258–273.
- HUT, P. AND SUSSMAN, G.J. (1987) Advanced computing for science. *Sci. Amer.* **257**, 151–153.
- HUTCHINS, R. (2012) Space Probes: 50 Years of exploration from Luna 1 to New Horizons. *Soc. for the History of Astronomy News* **22**, 46–49.
- IANOTTA, B. (2015) Space explorer: Charles Elachi, Director, Jet Propulsion Laboratory. *Aerospace America* **53**, no. 8, 14–16.
- IDA, S., BRYDEN, G., LIN, D.N.C., AND TANAKA, H. (2000) Orbital migration and orbital distribution of the trans-Neptunian objects. *Astrophys. Jour.* **534**, 428–445.

- IINO, T., HIRAHARA, Y., HIDEMORI, T., TSUKAGOSHI, T., NAKAJIMA, T., NAKAMOTO, S., AND KATO, C. (2016) Observational constraint on Pluto’s atmospheric CO with ASTE. *Pub. Astron. Soc. Japan* **68**, L1.
- IMANAKA, H., CRUIKSHANK, D.P., MATERESE, C.K., MCKAY, C.P., AND SMITH, M.A. (2014) Possible formation of organic aerosol formation in Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **46**, 419.10 (Abstract).
- INNANEN, K.A. AND MIKKOLA, S. (1989) Uranus, Neptune, and the formation of Pluto. *Bull. Amer. Astron. Soc.* **21**, 1007 (Abstract).
- IORIO, L. AND GIUDICE, G. (2006) What do the orbital motions of the outer planets of the solar system tell us about the Pioneer Anomaly? *New Astronomy* **11**, 600–607.
- IORIO, L. (2013) Perspectives on effectively constraining the location of a massive trans-Plutonian object with the New Horizons spacecraft: a sensitivity analysis. *Cel. Mech.& Dyn. Astr.* **116**, 357–366.
- IORIO, L. (2014) Testing a recently proposed scenario for a transplutonian planetoid with the EPM2013 planetary ephemerides. Submitted to ???, *arXiv:1407.5894v2*
- IORIO, L., RUGGIERO, M.L., RADICELLA, N., AND SARIDAKIS, E.N. (2016) Constraining the Schwarzschild-de Sitter solution in models of modified gravity. *Physics of the Dark Universe* **13**, 111–120.
- IP, W.-H. AND LARA, L.M. (1994) Pluto’s upper ionospheric: a quick look. *Bull. Amer. Astron. Soc.* **26**, no. 3, 1168–1169 (Abstract).
- IP, W.-H., KOPP, A., LARA, L.M., AND RODRIGO, R. (2000) Pluto’s ionospheric models and solar wind interaction. *Adv. Spa. Res.* **37**, no. 1, 1559–1563.
- IPATOV, S.I. (1980) An approximate method for analysis of the mutual gravitational influence of bodies in a protoplanet cloud. A possible evolution of Pluto’s orbit. *Preprint of Institute of Applied Mathematics, Moscow* **N43**, 1–33.
- IPATOV, S.I. (1988) Numerical studies of the possible orbit evolution of Pluto and bodies of the trans-Neptune belt. *Kinematika Fiz. Nebesn. Tel* **4**, 73–78.
- IPATOV, S.I. (2003) Formation of trans-Neptunian objects. *Bull. Amer. Astron. Soc.* **35**, 1232 (Abstract).
- IPATOV, S.I. (2000) Variations in orbital elements of planets. *Spa. Sci. Rev.* **34**, 179–185.
- IRION, R. (2005) Probing Pluto’s past. In “Snapshots from the meeting.” *Science* **308**, 1733.
- IRION, R. (2006) New Hubble image cuts the “10th Planet” down to size. *Science* **311**, 589.
- ITO, T. AND TANIKAWA, K. (2002) Long-term integrations and stability of planetary orbits in our solar system. *Mon. Not. Roy. Astron. Soc.* **336**, 483–500.
- IZENBERG, N., LANDIS, G.A., OLESON, S.R., ABEL, P., BUR, M., COLOZZA, A., FALLER, B., FITTJE, J., GYEKENYESI, J., HARTWIG, J., JONES, R., LANTZ, N., MCCARTY, S., PACKARD, T., SCHMITZ, P., SMITH, D., TURNBULL, E., MCKAIG, M., AND O’BRIEN, T. (2021) Hopper missions to Triton and Pluto using a vehicle with in-situ refueling. *Planetary Science and Astrobiology Decadal Survey 2023-2032 white paper; Bull. Amer. Astron. Soc.* **53**, no. 4, e-id. 318.
- JACKSON, A.A. AND KILLEN, P.M. (1987) Planet X and the stability of resonances in the Neptune–Pluto system. *Bull. Amer. Astron. Soc.* **19**, 1072 (Abstract).
- JACKSON, A.A. AND KILLEN, P.M. (1988) Planet X and the stability of resonances in the Neptune–Pluto system. *Mon. Not. Roy. Astron. Soc.* **235**, 593–601.
- JACKSON, A.I. AND DESCH, S. (2021) Archive of plotting script for Jackson & Desch 2021. *Zenodo* February 24, 2021.
- JACKSON, A.P. AND DESCH, S.J. (2021) To see a world in a shard of ice: ‘Oumuamua as a Fragment of N₂ ice from an exo-Pluto. *Lunar & Planetary Sci.* **52**, 1718 (Abstract).
- JACKSON, A.P. AND DESCH, S.J. (2022) Chips off the old block: 1I/‘Oumuamua and C/2016 R2 as fragments of the surfaces of Pluto-like planets. *Lunar & Planetary Sci.* **53**, 2486 (Abstract).

- JACKSON, J. (1930) The orbit of Neptune. *Mon. Not. Roy. Astron. Soc.* **90**, 728–732.
- JACKSON, J. (1930) Lowell’s prediction of a Trans-Neptunian Planet. *Nature* **125**, 451–452.
- JACKSON, J. (1930) The planet discovered at the Lowell Observatory. *Nature* **125**, 491–492.
- JACKSON, J. (1955) The discoveries of Neptune and Pluto. *The Observatory* **75**, 126–127 (Letter to editor).
- JACOBS, A.D., SUMMERS, M.E., GLADSTONE, R., CHENG, A.F., STROBEL, D.F., LISSE, C.M., GAO, P., YOUNG, L.A., PESNELL, W.D., KAMMER, J., AND WEAVER, JR., H.A. (2018) Simulations of observed haze layer structure in Pluto’s atmosphere. *AGU Fall Meeting Abstracts* **P51F**, 2949 (Abstract).
- JACOBS, A. (2019) *Atmospheric physics and chemistry of Pluto’s haze layers*. Ph. D. dissertation, George Mason University, Fairfax, VA, 236 pp.
- JACOBS, A., SUMMERS, M., GLADSTONE, G.R., CHENG, A., STROBEL, D., LISSE, C., YOUNG, L., PESNELL, D., GAO, P., KAMMER, J., WEAVER, H., AND BERTRAND, T. (2019) Observations and theory for waves in Pluto’s atmosphere. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7065 (Abstract).
- JACOBS, A.D., SUMMERS, M.E., CHENG, A.F., GLADSTONE, G.R., LISSE, C.M., PESNELL, W.D., BERTRAND, T., STROBEL, D.F., YOUNG, L.A., WEAVER, H.A., KAMMER, J., AND GAO, P. (2021) LORRI observations of waves in Pluto’s atmosphere. *Icarus* **356**, 113825.
- JACOBSON, R.A. AND BROZOVIĆ, M. (2014) The orbits and masses of Pluto’s satellites. *Bull. Amer. Astron. Soc.* **44**, 104.01 (Abstract).
- JACOBSON, R.A., BROZOVIC, M., SHOWALTER, M., VERBISCHER, A., BUIE, M., AND HELFENSTEIN, P. (2019) The orbits and masses of Pluto’s satellites. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7031 (Abstract).
- JACOBSON, R. AND PARK, R. (2022) Tides in the Jovian system. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, B5.2-0013-22*, (Abstract).
- JAFFE, L.D., AND IVIE, C.V. (1979) Science aspects of a mission beyond the planets. *Icarus* **39**, 486–494.
- JAFFE, L.D., IVIE, C., LEWIS, J.C., LIPES, R., NORTON, H.N., STEARNS, J.W., STIMPSON, L.D., AND WEISSMAN, P. (1980) An interstellar precursor mission. *Jour. Brit. Interplanetary Soc.* **33**, 3–26.
- JAIN, S.K. AND BHARDWAJ, A. (2015) Production of N₂ Vegard-Kaplan and Lyman-Birge-Hopfield emissions on Pluto. *Icarus* **246**, 285–290.
- JAKIEL, R. (1997) Taking the big test: these elusive sky targets will challenge the sharpest-eyed observers. *Astronomy* **25**, no. 10, 98–101.
- JAMES, D., HORÁNYI, M., AND POPPE, A. (2008) Dust measurements by the Student Dust Counter (SDC) onboard the New Horizons Mission. *37th COSPAR Scientific Assembly. 13–20 July 2008, Montréal, Canada* p. **1353**, (Abstract).
- JAMES, D., POPPE, A., AND HORÁNYI, M. (2008) Dust measurements between Earth and Saturn by the Venetia Burney Student Dust Counter of the New Horizons Mission. *AGU Fall Meeting Abstracts* **P31A**, 1388 (Abstract).
- JAMES, N. (2006) Pluto finder chart in 2006 Handbook. *Jour. Brit. Astron. Assoc.* **116**, 65.
- JAMES, P.B. AND LEE, S.W. (1999) Hubble Space Telescope observations of planets and satellites. *Ann. Rev. Earth and Plan. Sci.* **27**, 115–148.
- JAMES, C.R. AND MILLER, S.T. (2021) This is not your mother’s Astronomy course: The past five decades have seen enormous changes in not just the science of astronomy but also in how astronomy is taught. *Mercury* **50**, no. 3, 13–16..
- JAMIESON, C. AND DALTON, J.B. (2002) A summary of laboratory spectra for ices of planetary interest. *Bull. Amer. Astron. Soc.* **34**, 908 (Abstract).

- JANLE, P. (1996) Vulkanismus im planetensystem. Teil 4: vulkanismus der eiskörper. *Sterne und Weltram* **35**, 452–459.
- JANSSON, K.W. AND JOHANSEN, A. (2014) Formation of pebble-pile planetesimals. *Astron. Astrophys.* **570**, A47.
- JARMAN, R. AND MCCLUNE, B. (2009) ‘A planet of confusion and debate’: children’s and young people’s response to the news coverage of Pluto’s loss of planetary status. *Res. in Science and & Technological Education* **27**, no. 3, 309–325.
- JEFFERS, H.M. (1933) Observations of comets and of Pluto. *Lick Obs. Bull. #452* **16**, 111–114.
- JEFFERS, H.M. (1934) Observations of comets, asteroids, and Pluto. *Lick Obs. Bull. #460* **17**, 5–7.
- JEFFERS, H.M. AND SWANSON, C.D. (1935) Observations of comets, Pluto, Aeneas, and Jupiter’s satellite VIII. *Lick Obs. Bull. #475* **17**, 123–125.
- JEFFRIES, J.T. (1982) Astronomical studies of the major planets, natural satellites, and asteroids using the 2.24 m telescope. Semiannual Progress Report Jul.–Dec. 1982 ???.
- JEKHOWSKY, B. (1930) Sur le calcul des dimensions de l’orbite du nouveau corps céleste transneptunien. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **190**, 1049–1050.
- JEKHOWSKY, B. (1930) Sur la planète transneptunienne Pluton. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **191**, 248–249.
- JEKHOWSKY, M.B. (1930) La planète transneptunienne. Orbites calculées les positions d’Yerkes. *Jour. des Observateurs* **13**, 165.
- JELIČIĆ, M. (1980) Pluto. *Vasiona* **28**, 77–80.
- JENNINGS, D.E., BJORAKER, G.L., BLY, V.T., DEMING, D., FLASER, M., KUNDE, V.G., JHABVALA, M., MCCABE, G.H., REUTER, D.C., SHU, P., THOLEN, D.J., AND HENDRIX, K. (1993) LEISA: Linear etalon imaging spectral array and infrared mapping spectrometer for the Pluto Fast Flyby Mission. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- JENNINGS, D.E., BJORAKER, G.L., BLY, V.T., DEMING, D., FLASER, M., KUNDE, V.G., JHABVALA, M., MCCABE, G.H., REUTER, D.C., SHU, P., THOLEN, D.J., AND HENDRIX, K. (1993) LEISA: Linear etalon imaging spectral array and infrared mapping spectrometer for the Pluto Fast Flyby Mission. *Bull. Amer. Astron. Soc.* **25**, 1131 (Abstract).
- JENSEN, K.S. (1979) Accurate astrometric positions of Pluto 1975–1978. *Astron. Astrophys.* **75**, 260.
- JENSEN, K.S. (1979) Accurate astrometric positions of Pluto 1975–1978. *Astron. Astrophys. Supp.* **36**, 395–398.
- JENSEN, J.R., HASKINS, C.B., AND DEBOY, C.C. (2013) “Regenerative PN ranging experience with New Horizons during 2012.” Paper given at *Proceedings of the Aerospace Conference, 2013 IEEE. 02–09 March 2013. Big Sky, MT, 1–7*, .
- JEONGAHN, Y., MALHOTRA, R., AND REYES-RUIZ, M. (2019) Impact fluxes on 2014 MU69 and Pluto and their variations over secular timescales. *ESPC–DPS Joint Meeting* **13**, 1269J (Abstract).
- JEROUSEK, R.G., COLWELL, J., HEDMAN, M.W., FRENCH, R.G., MAROUF, E.A., ESPOSITO, L., AND NICHOLSON, P.D. (2017) The effect of aerosols on Pluto’s C₂ hydrocarbon chemistry. *Bull. Amer. Astron. Soc.* **49**, 105.02 (Abstract).
- JESSBERGER, E.K. (1991) Analysis of samples from solar system bodies with emphasis on existing and emerging technologies. *Spa. Sci. Rev.* **56**, iv (frontispiece).
- JESSUP, K.L., GLADSTONE, G.R., HEAYS, A.N., GIBSON, S.T., LEWIS, B.R., AND STARK, G. (2013) ¹⁴N¹⁵N detectability in Pluto’s atmosphere. *Icarus* **226**, 1514–1526.
- JESSUP, K.L., CHENG, A., GAO, P., LUSPAY-KUTI, A., AND MANDT, K. (2019) Photochemistry and haze formation. *Pluto System After New Horizons*, LPI Contribution No. 2133, Lauri, MD, 2019 July 14–18, 7032 (Abstract).

- JEWITT, D.C. (1994) Heat from Pluto. *Astron. Jour.* **107**, 372–378.
- JEWITT, D.C. AND LUU, J.X. (1995) The solar system beyond Neptune. *Astron. Jour.* **109**, 1867–1876.
- JEWITT, D.C. (1995) “The Kuiper Belt.” In *Transactions of the International Astronomical Union XXIII A Reports on Astronomy*, ed. I. Appenzeller (Kluwer Press, Boston), pp. 211–212.
- JEWITT, D.C. AND LUU, J.X. (1996) The Plutinos. *A.S.P. Conference Series* **107**, 255–258.
- JEWITT, D.C. (1997) Kuiper Belt Objects along the Pluto–Express path. *Technical Report, NASA/CR-97-206747*.
- JEWITT, D.C. (1999) Kuiper Belt objects. *Ann. Rev. Earth and Plan. Sci.* **27**, 287–312.
- JEWITT, D.C. (2020) A deep dive into the abyss: the flyby of the Kuiper Belt Object Arrokoth provides quick and tantalizing observations. *Science* **367**, no. 6481, 980–981.
- JIANG, Y., ZHANG, Y. BAOYIN, H., AND LI, J. (2016) Dynamical configurations of celestial systems comprised of multiple irregular bodies. *Astrophys. Spa. Sci.* **361**, no. 9, 306.
- JOHANSEN, A., MACLOW, M.-M., LACERDA, P., AND BIZARRO, M. (2015) Growth of asteroids, planetary embryos, and Kuiper Belt Objects by chondrule accretion. *Science Advances* **1**, 1–11.
- JOHNSON, A.V. (2019) Exploring exoplanet clouds at home and abroad. *Bull. Amer. Astron. Soc.* **51**, no. 4, 121.01 (Abstract).
- JOHNSON, B.C, BOWLING, T.J., TROWBRIDGE, A.J. AND FREED, A.M. (2016) Formation of the Sputnik Planum basin and the thickness of Pluto’s subsurface ocean. *Geophys. Res. Letters* **43**, no. 19, 10068-10077.
- JOHNSON, B.R. AND ATREYA, S.K. (1996) Feasibility of determining the composition of planetary ices by far infrared observations: application to martian clud and surface ices. *Icarus* **119**, 405–426.
- JOHNSON, G.A. (1994) Study of the rarefied sodium vapor flow in the Pluto Fast Flyby AMTEC cell. *Space nuclear power and propulsion: eleventh symposium. AIP Conference Proceedings* **301**, 581–585.
- JOHNSON, J.R., FINK, U., SMITH, B.A., AND REITSEMA, H.J. (1981) Spectrophotometry and upper limit of gaseous CH₄ for Triton. *Icarus* **46**, 288–291.
- JOHNSON, P. AND YOUNG, L. (2018) Pluto’s minimum pressure in the current season from a thermophysical model. *Bull. Amer. Astron. Soc.* **50**, 502.04 (Abstract).
- JOHNSON, P.E., YOUNG, L.A., PROTOPAPA, S., SCHMITT, B., LEWIS, B.L., STANSBERRY, J.A., MANDT, K.E., AND WHITE, O.L. (2019) Pluto’s minimum surface pressure and implications for haze production. *Pluto System After New Horizons*, LPI Contribution No. 2133, Lauri, MD, 2019 July 14–18, 7025 (Abstract).
- JOHNSON, P., YOUNG, L., PROTOPAPA, S., SCHMITT, B., LEWIS, B., STANSBERRY, J., MANDT, K., AND WHITE, O. (2019) Pluto’s minimum surface pressure and implications for haze production. *ESPC–DPS Joint Meeting* **13**, 988J (Abstract).
- JOHNSON, P.E., YOUNG, L.A., PROTOPAPA, S., SCHMITT, B., GABASOVA, L.R., LEWIS, B.L., STANSBERRY, J.A., MANDT, K.E., AND WHITE, O.L. (2021) Modeling Pluto’s minimum pressure: implications for haze production. *Icarus* **356**, 114070.
- JOHNSON, P.E., YOUNG, L.A., AND KEANE, J.T. (2020) How fast did Pluto’s Sputnik Basin Fill? Infilling timescales for multiple initial locations and orbits. *Bull. Amer. Astron. Soc.* **52**, no. 6, 105.04 (Abstract).
- JOHNSON, P.E., KEANE, J.T., YOUNG, L.A., AND MATSUYAMA, I. (2021) New constraints on Pluto’s Sputnik Planitia ice sheet from a coupled reorientation climate model. *Planetary Sci. Jour.* **2**, no. 5, 194.
- JOHNSON, P., KEANE, J., YOUNG, L., AND MATSUYAMA, I. (2021) Wanderlust on Pluto: forming Sputnik Planitia with a Coupled True Polar Wander - Climate Model. *Bull. Amer. Astron. Soc.* **53**, 114.01 (Abstract).

- JOHNSON, R.E. (1989) Effects of irradiation on the surface of Pluto. *Eos* **70**, 382 (Abstract).
- JOHNSON, R.E. (1989) Effect of irradiation on the surface of Pluto. *Geophys. Res. Letters* **16**, 1233–1236.
- JOHNSON, R.E. (1992) Charged particle induced alterations of surfaces in the outer solar system. *Directory of Research Projects, Planetary Geology and Geophysics Program NASA TM-4428*, 66 (Abstract).
- JOHNSON, R.E. (1993) Effects of irradiation on the surface properties of Pluto. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- JOHNSON, R. (2005) Chipping away at a mysterious iceball. *Stardate* **33**, no. 2, 4–9.
- JOHNSON, R.E., TUCKER, O.J., AND YOUNG, L.A. (2013) Atmospheric escape from the Pluto/Charon System: Monte Carlo simulations. *Bull. Amer. Astron. Soc.* **45**, 310.07 (Abstract).
- JOHNSON, R.E., OZA, A., YOUNG, L.A., VOLKOV, A.N., AND SCHMIDT, C. (2014) Volatile loss and classification of Kuiper Belt Objects. *Bull. Amer. Astron. Soc.* **46**, 510.01 (Abstract).
- JOHNSON, R.E., OZA, A., YOUNG, L.A., VOLKOV, A.N., AND SCHMIDT, C. (2015) Volatile loss and classification of Kuiper Belt Objects. *Astrophys. Jour.* **809**, no. 1, 43.
- JOHNSON, T.V. (1998) “Introduction to icy satellite geology.” In *Solar system ices* (Dordrecht, Kluwer), 511–523.
- JOHNSON, T. (2016) Phoebe: compositional constraints on origin. *Geological Soc. Amer. Annual Meeting P3*, 211-9 (Abstract).
- JOHNSON, W.R. AND LONGUSKI, J.M. (2002) Design of aerogravity-assist trajectories. *AIAA/AAS Specialists Conference Denver, Co, AIAA paper #2000-4031*, .
- JOHNSON, W.R. AND LONGUSKI, J.M. (2002) Design of aerogravity-assist trajectories. *Jour. Spacecraft and Rockets* **39**, no. 1, 23–30.
- JOHNSTONE, D. (1932) Remeasurement of an early Harvard photograph of Pluto. *Harvard College Observatory Bulletin* **887**, 13.
- JONES, B.W. (2010) *Pluto: sentinel of the outer solar system*. (Cambridge University Press, New York, NY), 244 pp.
- JONES, H.S. (1942) The mass of Pluto. *The Observatory* **64**, 377–378.
- JONES, J.H., CHRISTIAN, C.A., AND WADDELL, P. (1988) Resolved CCD photometry of Pluto and Charon. *Pub. Astron. Soc. Pacific* **100**, 489–495.
- JONES, J.S. (2001) Book Review: *Pluto and Charon: ice worlds at the ragged edge of the solar system*, by A. Stern and J. Mitton. *Mon. Not. Astron. Soc. South Africa* **60**, 43–44.
- JONES, R.M. (1990) Questions and Answers. *Planetary Report* **10**, no. 2, 29.
- JONES, R.M. (1991) “Small spacecraft activities at JPL.” Paper given at *Utah State Univ. Conference on Small Satellites*, Logan, Utah, August 26.
- JONES, W.V. AND FORMAN, M.A. (1995) “Update on the Fire (Solar Probe) mission study.” Paper given at *International Solar Wind 8 Conference*, Washington, DC, 31..
- JORISSEN, A. (2003) Book review: *Beyond Pluto — exploring the outer limits of the solar system*. by J. Davies *Ciel et Terre* **119**, 63–64.
- JOURNAUX, B., ABRAMSON, E., BROWN, J.M., AND BELLENGIER, O. (2017) High pressure ices are not the end of the story for large icy moons habitability: experimental studies of salts effects on high pressure ices and the implications for icy worlds large hydrosphere structure and chemical evolution. *Bull. Amer. Astron. Soc.* **49**, 222.01 (Abstract).
- JUANOLA-PARRAMON, R., ARNEY, G.N., ZIMMERMAN, N., BOLCAR, M., AND ROBERGE, A. (2018) Observing the solar system and beyond with LUVOIR: high angular resolution with a segmented aperture. *AGU Fall Meeting Abstracts P51B*, 06 (Abstract).

- JOVANOVIĆ, L., GAUTIER, T., CARRASCO, N., VUITTON, V., QUIRICO, E., WOLTERS, C., ORTHOUS-DAUNAY, F.R., VETTIER, L., AND FLANDINET, L. (2019) 2019 *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, Laboratory simulation of Pluto’s atmosphere and aerosols. 702 (Abstract).
- JOVANOVIĆ, L., GAUTIER, T., CARRASCO, N., VUITTON, V., WOLTERS, C., ORTHOUS-DAUNAY, F., VETTIER, L., AND FLANDINET, L. (2019) Chemical composition of Pluto’s aerosols analogues. *ESPC–DPS Joint Meeting* **13**, 941J (Abstract).
- JOVANOVIĆ, L., GAUTIER, T., JAISLE, N., VETTIER, L., AND CARRASCO, N. (2019) Laboratory simulation of Pluto’s atmospheric chemistry. *ESPC–DPS Joint Meeting* **13**, 957J (Abstract).
- JOVANOVIĆ, L., GAUTIER, T., BROCH, L., PROTOPAPA, S., BERTRAND, T., RANNOU, P., FAYOLLE, M., QUIRICO, E., JOHANN, L., EN NACIRI, A., AND CARRASCO, N. (2020) Optical constants of Pluto aerosol analogues from UV to near-IR. *Icarus* **362**, 114398.
- JUTZI, M. AND ASPHAUG, E. (2015) The shape and structure of cometary nuclei as a result of low-velocity accretion. *Science* **348**, no. 6241, 1355–1358.
- KAHN, R. AND APPLEBY, J. (1991) Outer planet satellites. *Rev. Geophys. Supp.* **29**, 328–336.
- KAIB, N., GRIMM, S., PARSELLS, A., CLEMENT, M., AND QUARLES, B. (2021) Inferring the primordial Pluto-mass population of the Kuiper belt. *Bull. Amer. Astron. Soc.* **53**, no. 5, 501.05 (Abstract).
- KAIB, N., PARSELLS, A., GRIMM, S., CLEMENT, M., AND QUARLES, B. (2021) The number of Pluto-Mass bodies in the primordial Kuiper Belt. *Bull. Amer. Astron. Soc.* **53**, 202.01 (Abstract).
- KAIB, N.A. AND RAYMOND, S.N. (2024) Passing stars as an important driver of paleoclimate and the solar system’s orbital evolution. *Astrophys. Jour. Lett.* **962**, L28.
- KAIB, N.A., PARSELLS, A., GRIMM, S., QUARLES, B., AND CLEMENT, M.S. (2024) More realistic planetesimal masses alter Kuiper Belt formation models and add stochasticity. *Icarus* **415**, 116057.
- KALINICHEVA, O.V. AND TOMANOV, V.P. (1990) On the absence of an interrelation between cometary orbits and Pluto. *Spa. Sci. Rev.* **43**, 500–503.
- KAMATA, S. AND NIMMO, F. (2014) Impact basin relaxation as a probe for the thermal history of Pluto. *AGU Fall Meeting Abstracts* **P31E**, 09 (Abstract).
- KAMATA, S. AND NIMMO, F. (2014) Basin relaxation as a probe of Pluto’s thermal history. *Lunar & Planetary Sci.* **45**, 1736 (Abstract).
- KAMATA, S. AND NIMMO, F. (2014) Impact basin relaxation as a probe for the thermal history of Pluto. *Jour. Geophys. Res. Planets* **119**, 2272–2289.
- KAMATA, S., MATSUYAMA, I., AND NIMMO, F. (2015) Tidal resonance in icy satellites with subsurface oceans. *Jour. Geophys. Res. Planets* **120**, no. 9, 1528–1542.
- KAMATA, S., NIMMO, F., SEKINE, Y., KURAMOTO, K., NOGUCHI, N., KIMURA, J., AND TANI, A. (2019) An interior structure model of Pluto that solves its geophysical and geochemical mysteries. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7009 (Abstract).
- KAMATA, S., NIMMO, F., SEKINE, Y., KURAMOTO, K., NOGUCHI, N., KIMURA, J., AND TANI, A. (2019) Plutos ocean is capped and insulated by gas hydrates. *Nature Geoscience* **12**, 407–410.
- KAMBIC, B. (2003) Pluto in opposition. *Spika* **11**, 223.
- KAMBIC, B. (2005) Pluto in opposition. *Spika* **13**, 232.
- KAMBIC, B. (2008) Juno and Pluto in opposition. *Spika* **16**, 222.
- KAMMER, J.A., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K.A., OLKIN, C.B., GLADSTONE, G.R., SUMMERS, M.E., GREATHOUSE, T.K., RETHERFORD, K.D., VERSTEEG, M.H., PARKER, J.W., STEFFL, A.J., SCHINDHELM, E., STROBEL, D.F., LINSKOTT, I.R., HINSON, D.P., TYLER, G.L., AND WOODS, W.W. (2015) In Charon’s shadow: analysis of the UV solar occultation from New Horizons. *Bull. Amer. Astron. Soc.* **47**, 102.04 (Abstract).

- KAMMER, J.A., STERN, S.A., WEAVER, H.A., YOUNG, L., ENNICO, K., OLKIN, C.B., GLADSTONE, R., SUMMERS, M., STEFFL, A., GREATHOUSE, T.K., VERSTEEG, M. RETHERFORD, K.D., PARKER, J.W., SCHINDHELM, E., STROBEL, D.F., AND THE NEW HORIZONS ATM THEME TEAM, NEW HORIZONS SCIENCE TEAM. (2016) Stargazing from New Horizons: ultraviolet stellar occultations by Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **48**, no. 7, 160 (Abstract).
- KAMMER, J.A. AND STERN, S.A. (2015) Searching for Charon’s atmosphere: predictions for the New Horizons approach. Submitted to *arXiv:1506.04154*
- KAMMER, J.A., STERN, S.A., YOUNG, L.A., STEFFL, A.J., GLADSTONE, G.R., OLKIN, C.B., WEAVER, H.A., ENNICO, K., AND THE NEW HORIZONS ATMOSPHERES AND ALICE UV SPECTROGRAPH TEAMS. (2017) New Horizons upper limits on O₂ in Pluto’s present day atmosphere. *Astron. Jour.* **154**, no. 2, 55.
- KAMMER, J., BECKER, T.M., RETHERFORD, K.D., STERN, S.A., OLKIN, C., BUIE, M.W., SPENCER, J.R., BOSH, A.S., AND WASSERMAN, L.H. (2017) Probing the Hill Sphere of 2014 MU₆₉ with HST FGS. *Bull. Amer. Astron. Soc.* **49**, 221.03 (Abstract).
- KAMMER, J.A., BECKER, T.M., RETHERFORD, K.D., STERN, S.A., OLKIN, C.B., BUIE, M.W., SPENCER, J.R., BOSH, A.S., AND WASSERMAN, L.H. (2018) Probing the Hill Sphere of (486958) 2014 MU₆₉: HST FGS observations during the 2017 July 17 stellar occultation. *Astron. Jour.* **156**, no. 2, 72..
- KAMMER, J.A., BECKER, T.M., RETHERFORD, K.D., STERN, S.A., OLKIN, C.B., BUIE, M.W., SPENCER, J.R., BOSH, A.S., AND WASSERMAN, L.H. (2019) Probing the Hill Sphere of (486958) 2014 MU₆₉. II. Hubble Space Telescope Fine Guidance Sensors observations during the 2018 August 4 stellar occultation. *Astron. Jour.* **158**, no. 4, 168.
- KAMMER, J.A., GLADSTONE, G.R., YOUNG, L.A., STEFFL, A.J., PARKER, J.W., GREATHOUSE, T.K., RETHERFORD, K.D., VERSTEEG, M.H., STROBEL, D.F., SUMMERS, M.E., STERN, S.A., OLKIN, C.B., WEAVER, H.A., ENNICO, K., NEW HORIZONS ATMOSPHERES, AND ALICE UV SPECTROGRAPH TEAMS. (2020) New Horizons observations of an ultraviolet stellar occultation and appulse by Pluto’s atmosphere. *Astron. Jour.* **159**, no.1, 26.
- KAMMERER, A. (1981) Pluto im Sechszöller. *Sterne und Weltram* **20**, 243.
- KANE, J. (1999) The plight of Pluto. *Natural History* **108**, no. 4, 8.
- KANIPE, J. (1995) Without a doubt, find Pluto. *Astronomy* **23**, no. 5, 62.
- KAPLAN, G.H., SEIDELMANN, P.K., AND SMITH, E. (1972) Astrometric ephemeris of Pluto 1979–1990. *U.S. Naval Obs. Circ. No. 139*.
- KAPLAN, G.H. (1980) Geocentric ephemeris of Pluto 1975–1985. *U. S. Naval Obs. Circ. No. 162*.
- KARGEL, J.S., CROFT, S.K., AND LEWIS, J.S. (1991) Rheological properties of ammonia-water liquids and crystal-liquid slurries—planetological applications. *Icarus* **89**, 93–112.
- KATTI, R. (1994) Space data storage systems and technologies. *IEEE Transactions on Magnetism* **30**, no. 6, 4194–4199.
- KAUFMANN, III, W.J. (1985) “Uranus, Neptune, and Pluto. Chapter 15” In *Universe in the Classroom: a resource guide for teaching astronomy* (W.H. Freeman, New York, NY), 126–131.
- KAULA, W.M. AND NEWMAN, W.I. (1987) Analysis of planetary evolution with emphasis on differentiation and dynamics. *Reports of the Planetary Geology and Geophysics Program—1986 NASA Technical Memorandum 89810*, 101–104 (Abstract).
- KAULA, W.M. (1995) Constraints on the Kuiper Belt from Pluto’s orbit. *Bull. Amer. Astron. Soc.* **27**, 1203–1204 (Abstract).

- KECSKEMÉTY, K. AND CRAVENS, T.E. (1993) Pick-up ions at Pluto. *Geophys. Res. Letters* **20**, 543–546.
- KECSKEMÉTY, K. AND CRAVENS, T.E. (1993) Pickup ions at Pluto. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- KEENEY, B.A., STERN, S., HOOVER, R., PROTOPAPA, S., AND THE NEW HORIZONS TEAM. (2020) Pluto’s dark heart? Albedos of large pits in Sputnik Planitia. *Bull. Amer. Astron. Soc.* **52**, no. 6, 310.05 (Abstract).
- KEENEY, B.A., PARKER, J.W., CUNNINGHAM, N., STERN, S.A., AND VERBISCHER, A.J. (2021) The first measurements of Charon’s far-ultraviolet surface reflectance. *Lunar & Planetary Sci.* **52**, 2366 (Abstract).
- KEENEY, B.A., PARKER, J.W., CUNNINGHAM, N., STERN, S.A., VERBISCHER, A.J., AND THE NEW HORIZONS TEAM. (2021) On Charon’s far-ultraviolet surface reflectance. *Planetary Sci. Jour.* **2**, no. 4, 164.
- KELLERMAN, K.I. AND PAULINY-TOTH, I.I. (1966) Observations of the radio emission of Uranus, Neptune, and other planets at 1.9 cm. *Astrophys. Jour.* **145**, 954–957 (Letter to editor).
- KELLEY, J.H., BOAIN, R.J., AND YEN, C.W. (1992) Robotic planetary science missions with NEP. *AIP Conference Proceedings* **246**, 78–90.
- KELLEY, J.H. AND YEN, C.W. (1992) “Planetary mission opportunities with nuclear electric propulsion.” Paper given at *Space Programs and Technologies Conference*, Huntsville, AL, pp. 1560–1572.
- KELSEY, L.A., FIX, J.D., AND NEFF, J.S. (1972) Spectrophotometry of Pluto. *Bull. Amer. Astron. Soc.* **4**, 321 (Abstract).
- KELSEY, L.A. (1972) *Spectrophotometry of Pluto*. M.A. thesis, University of Iowa, Iowa City, IA.
- KELSEY, L.A. AND FIX, J.D. (1973) Linear polarization measurements of Pluto. *Bull. Amer. Astron. Soc.* **4**, 321 (Abstract).
- KELSEY, L.A. AND FIX, J.D. (1973) Polarimetry of Pluto. *Astrophys. Jour.* **184**, 633–636.
- KEMP, K.W. (1990) Pluto and the patterns of planetary discovery. *Astron. Quarterly* **7**, 19–33.
- KENYON, S.J. AND LUU, J.X. (1998) Accretion in the early Kuiper Belt I. coagulation and velocity evolution. *Astron. Jour.* **115**, 2136–2160.
- KENYON, S.J. AND LUU, J.X. (1999) Accretion in the early Kuiper Belt II. fragmentation. *Astron. Jour.* **118**, 1101–1119.
- KENYON, S.J. AND LUU, J.X. (1999) Accretion in the early outer solar system. *Astrophys. Jour.* **526**, 465–470.
- KENYON, S.J. (2002) Planet formation in the Outer Solar System. *Pub. Astron. Soc. Pacific* **114**, 265–283.
- KENYON, S.J. AND BROMLEY, B.C. (2014) The formation of Pluto’s low-mass satellites. *Astron. Jour.* **147**, 8–24.
- KENYON, S.J. (2015) Astronomy: Pluto leads the way in planet formation. *Nature* **522**, 40–41.
- KENYON, S.J. AND BROMLEY, B.C. (2019) A Pluto–Charon sonata: the dynamical architecture of the circumbinary satellite system. *Astron. Jour.* **157**, no. 2, 79.
- KENYON, S.J. AND BROMLEY, B.C. (2019) A Pluto–Charon sonata: dynamical limits on the masses of the small satellites. *Astron. Jour.* **158**, no. 2, 69.
- KENYON, S.J. AND BROMLEY, B.C. (2021) A Pluto–Charon sonata. II. Formation of a circumbinary disk of debris after the giant impact. *Astron. Jour.* **161**, no. 5, 211.
- KENYON, S.J. AND BROMLEY, B.C. (2019) A Pluto–Charon sonata. III. Growth of Charon from a circum-Pluto ring of debris. *Astron. Jour.* **158**, no. 4, 142.
- KENYON, S.J. AND BROMLEY, B.C. (2022) A Pluto–Charon sonata. IV. Improved constraints on the dynamical behavior and masses of the small satellites. , in press.

- KENYON, S.J. AND BROMLEY, B.C. (2020) Craters on Charon: impactors from a collisional cascade among trans-Neptunian objects. *Planetary Sci. Jour.* **1**, no. 2, 40.
- KENYON, S.J. AND BROMLEY, B.C. (2020) A Pluto–Charon concerto: an impact on Charon as the origin of the small satellites. *Astron. Jour.* **160**, no. 2, 85.
- KERN, S., BUIE, M., AND GRUNDY, W. (1999) Monitoring methane on the surface of Pluto. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- KERN, S.D., MCCARTHY, D.W., KULESA, C.A., HUBBARD, W.B., PERSON, M.J., ELLIOT, J.L., AND GULBIS, A.A. (2007) Grazing occultation reveals gravity wave breaking in Pluto’s high atmosphere. *Bull. Amer. Astron. Soc.* **39**, 519 (Abstract).
- KERR, R.A. (1978) New moons: encounters of the serendipitous kind. *Science* **201**, 516.
- KERR, R.A. (1987) Mysterious Pluto may shrink no longer. *Science* **235**, 30.
- KERR, R.A. (1987) Planetary scientists are seeing the unseeable. *Science* **235**, 29–31.
- KERR, R.A. (1988) Pluto’s orbital motion looks chaotic. *Science* **240**, 986–987.
- KERR, R.A. (1989) Does chaos permeate the solar system? *Science* **244**, 144–145.
- KERR, R.A. (1989) A passion for the little things among the planets. *Science* **246**, 998–999.
- KERR, R.A. (1992) Geophysicists take a tour around the solar system. *Science* **256**, 1634–1635.
- KERR, R.A. (1992) Planetary science: from Mercury to Pluto, chaos pervades the solar system. *Science* **257**, 33.
- KERR, R.A. (1995) Home of planetary wanderers is sized up for first time. *Science* **268**, 1704.
- KERR, R.A. (2000) Solar system scientists look to find an edge. *Science* **290**, 689.
- KERR, R.A. (2002) NASA’s new road to faster, cheaper, better exploration. *Science* **298**, 1320–1322.
- KERR, R.A. (2002) How a pair marries for the eons. *Science* **298**, 2115.
- KERR, R.A. (2003) Sweeping up after the solar system. *Science* **302**, 1491.
- KERR, R.A. (2005) Newfound ‘Tenth Planet’ puts Pluto behind the eight ball. *Science* **309**, 859.
- KERR, R.A. (2007) Cold, cold bodies, warm hearts. *Science* **315**, 1789.
- KERR, R.A. (2012) Why is the solar system so bizarre? *Science* **336**, 1098.
- KERR, R.A. (2013) Pluto, the last planetary first. *Science* **341**, 708–709.
- KHANNA, R.K. (1995) Infrared spectroscopy of organics of planetological interest at low temperatures. *Advances in Space Research* **16**, 109–118.
- KHARE, B.N., THOMPSON, W.R., CHYBA, C.F., SAGAN, C., AND ARAKAWA, E.T. (1989) Organic solids produced from simple C/H/O/N ices by charged particles: applications to the outer solar system. *Adv. Space Research* **9**, 41–53.
- KHARE, B.N., THOMPSON, W.R., SAGAN, C., ARAKAWA, E.T., BRUEL, C., JUDISH, J.P., KHANNA, R.K., AND POLLACK, J.B. (1990) “Optical constants of solid methane.” Paper given at *First International Conference on Laboratory Research for Planetary Atmospheres*, NASA CP 3077, pp. 327–339.
- KHOLSHEVNIKOV, K.V., BORUKHA, M.A., ESKIN, B.B., AND MIKRYUKOV, D.V. (2020) On the asphericity of the figures of Pluto and Charon. *Planetary and Spa. Sci.* **81**, 104777.
- KHOTIMSKAYA, E.Z. (1980) A Chebyshev-polynomial approximation to the coordinates of the planets. *Pis’ma Astron. Zhurnal* **6**, 120–122.
- KHRUTSKAYA, E.V., DE CUYPER, J.-P., KALININ, S.I., BEREZHNOY, A.A., AND DE DECKER, G. (2013) Positions of Pluto extracted from digitized Pulkovo photographic plates taken in 1930 – 1960. Submitted to *arXiv:1310.7502*

- KIDGER, M. (1988) Where is Planet X? *Astron. Now* **2**, no. 3, 28–33.
- KIDGER, M. (1999) And then there were eight? *Astron. Now* **13**, no. 3, 17.
- KIERNAN, V. (1995) Planet probes travel light. *New Scientist* **148**, 23.
- KIERNAN, V. (1996) Long shots give clue to Pluto’s surface. *New Scientist* **2021**, 5–6.
- KIHOULOU, M. AND PATOČKA, V. (2022) Sputnik Planitia Basin as a trigger for melting and reorientation of Pluto’s ice shell. *Lunar & Planetary Sci.* **53**, 1837 (Abstract).
- KIHOULOU, M., KALOUSOVÁ, K., AND SOUČEK, O. (2022) Evolution of Pluto’s impact-deformed ice shell below Sputnik Planitia Basin. *Jour. Geophys. Res. Planets* **127**, no. 6, e07221.
- KIKWAYA, J.B., THUILLOT, W., AND BERTHIER, J. (2003) Pluto–Charon: a test of the astrometric approach for finding asteroid satellites. *Bull. Amer. Astron. Soc.* **35**, 981–982 (Abstract).
- KILADZE, R.I. (1965) On the planet’s axial rotation. *Bull. Abastumanskoi Astrofizicheskoi Observatorii* **32**, 231–234.
- KILADZE, R.I. (1966) On the rotation period of Pluto. *Bull. Abastumanskoi Astrofizicheskoi Observatorii* **34**, 131–133.
- KILADZE, R.I. (1967) Physical parameters of Pluto. *Solar System Research* **1**, 173–175.
- KILADZE, R.I. (1968) What is the mass of Pluto? *Jour. Brit. Astron. Assoc.* **78**, 124.
- KILADZE, R.I. (1971) Axial rotation of planets due to their accretive growth. *Astron. Vestnik* **5**, 156–166.
- KILADZE, R.I. (1977) Role of a circumplanetary particle swarm in the development of diurnal rotation. *Bull. Abastumanskoi Astrofizicheskoi Observatorii* **48**, 191–212.
- KILADZE, R.I. (1986) Observations of Pluto at Abastumani Observatory. *Byull. Inst. Teor. Astron.* **15**, 602.
- KILADZE, R.I. (1988) Photometry of Pluto and determination of the position of its pole. *Spa. Sci. Rev.* **22**, 56–59.
- KILADZE, R.I. AND KUKHIANIDZE, V.J. (1991) Two-color photometry of Pluto. *Astron. Vestnik* **25**, 439–441.
- KILADZE, R.I. AND KUKHIANIDZE, V.J. (1992) Two-color photometry of Pluto. *Spa. Sci. Rev.* **25**, 330–332.
- KILADZE, R.I. AND KUKHIANIDZE, V.J. (1995) Two-color photometry of Pluto and a refinement of the position of its pole. *Astron. Vestnik* **29**, 504.
- KILLIAN, A. (1988) Big eye in the sky. *Sky and Tel.* **76**, 626.
- KILLIAN, A.M. (1989) Pluto in the news. *Stardate* **17**, no. 1, 4–7.
- KILLIAN, A.M. (1989) Playing dice with the solar system. *Sky and Tel.* **77**, 136–140.
- KILMARTIN, P.M., WATSON, R.D., AND BLOW, G.L. (1988) Occultation by Pluto. *IAU Circular No. 4612*.
- KIM, T.K., POGORELOV, N.V., ZANK, G.P., ELLIOTT, H.A., AND MCCOMAS, D.J. (2016) Modeling the solar wind at the Ulysses, Voyager, and New Horizons spacecraft. *Astrophys. Jour.* **832**, no. 1, 72.
- KIMURA, J. AND KAMATA, S. (2020) Stability of the subsurface ocean of Pluto. *Planetary and Spa. Sci.* **81**, 104828.
- KING, B. (2022) Pluto opposition. *Sky and Tel.* **144**, no. 7, 48.
- KINGSLAND, JR., L. (1968) Trajectory analysis for a Grand Tour mission to the outer planets. *5th Annual AIAA Meeting Philadelphia, PA*, .
- KINGSLAND, JR., L. (1969) Trajectory analysis for a Grand Tour mission to the outer planets. *Jour. Spacecraft and Rockets* **6**, no. 8, 897–902.
- KINNEY, A.L. AND MARAN, S.P. (1991) The first year of observations with the Hubble Space Telescope. *Astron. Jour.* **103**, 1237–1249.

- KINOSHITA, H. AND NAKAI, H. (1984) Motions of the perihelions of Neptune and Pluto. *Cel. Mech.* **34**, 203–217.
- KINOSHITA, H. AND NAKAI, H. (1993) Motion of the orbital plane of a satellite due to a secular change of the obliquity of its mother planet. *Cel. Mech. Dyn. Astron.* **57**, no. 1–2, 359–368.
- KINOSHITA, H. AND NAKAI, H. (1994) The remotest planet Pluto’s strange orbit. *Astron. Herald* **87**, no. 3, 100–107.
- KINOSHITA, H. AND NAKAI, H. (1996) Long-term behavior of the motion of Pluto over 5.5 billion years. *Earth, Moon, and Planets* **72**, 165–173.
- KINOSHITA, H. AND NAKAI, H. (1996) “The motion of Pluto over the age of the solar system.” In *Dynamics, ephemerides, and astrometry of the solar system*, ed. Ferraz-Mello, S., Morando, B., and Arlot, J.-E. (Kluwer Academic Publishers, Boston), pp. 61–70.
- KIRCHOFF, M.R., DONES, L. SINGER, K., AND SCHENK, P. (2022) Crater distributions of Uranus’s mid-sized satellites and implications for outer solar system bombardment. *Planetary Sci. Jour.* **3**, no. 2, 42.
- KIRKWOOD, D. (1880) On comets and ultra-Neptunian planets. *The Observatory* **3**, 439–447.
- KISS, C., PAL, A., ANIKÓ, T.F., MARCINIAK, A., MUELLER, T.G., KISS, L.L., SZABO, G.M., SARNECZKY, K., AND MOLNAR, L. (Physical characteristics of Cenaturs and trans-Neptunian objects from combined K2 and Herschel observations.) *Bull. Amer. Astron. Soc.* **48** no. **7, 8**, (Abstract).
- KISS, C., MARTON, G. PARKER, A.H., GRUNDY, W.M., FARKAS-TAKÁCS, A., STANSBERRY, J., PÁL, A., MÜLLER, T., NOLL, K.S., SCHWAMB, M.E., BARR, A.C., YOUNG, L.A., AND VINKÓ, J. (2019) The mass and density of the dwarf planet (225088) 2007 OR₁₀. *Icarus* **334**, 3–10.
- KISSEL, G.J. (1993) Attitude control for the Pluto Fast Flyby spacecraft. *Proc. SPIE* **1949**, 177–187.
- KISSICK, L. (2019) New Horizons, new worlds, new names. *Astron. Geophys.* **60**, no. 5, 17–21.
- KJELLSTRAND, L. (1985) Tiny Pluto really has a moon! *McDonald Observatory News* **8**, No. 8, 6–7.
- KLEINER, K. (1997) Mapping Pluto’s kingdom. *New Scientist* **155**, 12.
- KLEMOLA, A.R. AND HARLAN, E.A. (1972) Search for Brady’s hypothetical trans-plutonian planet. *Lick Obs. Bull.* #631.
- KLEMOLA, A.R. AND HARLAN, E.A. (1972) Search for Brady’s hypothetical trans-plutonian planet. *Pub. Astron. Soc. Pacific* **84**, 736.
- KLEMOLA, A.R. AND HARLAN, E.A. (1982) Astrometric observations of outer planets and minor planets: 1980–1982. *Lick Obs. Bull. No.* 925.
- KLEMOLA, A.R. AND HARLAN, E.A. (1982) Astrometric observations of outer planets and minor planets: 1980–1982. *Astron. Jour.* **87**, 1242–1243.
- KLEMOLA, A.R. AND HARLAN, E.A. (1984) Astrometric observations of outer planets and minor planets: 1982–1983. *Lick Obs. Bull. No.* 979.
- KLEMOLA, A.R. AND HARLAN, E.A. (1984) Astrometric observations of outer planets and minor planets: 1982–1983. *Astron. Jour.* **89**, 879–881.
- KLEMOLA, A.R. AND HARLAN, E.A. (1986) Astrometric observations of outer planets and minor planets: 1984–1985. *Lick Obs. Cir. Bull. No.* 1041.
- KLEMOLA, A.R. AND HARLAN, E.A. (1986) Astrometric observations of outer planets and minor planets: 1984–1985. *Astron. Jour.* **92**, 195–198.
- KLEMOLA, A.R. AND ELLIOT, J.L. (1980) No occultation by Pluto on 1980 April 6. *IAU Circular No.* 3464.
- KLEMOLA, A.R. (1989) Solar system occultation studies. *Reports of Planetary Astronomy—1989 NASA Technical Memorandum* **4120**, 71 (Abstract).
- KLESMAN, A. (2017) Could life lurk within Pluto’s ocean? *Astronomy* **45**, no. 4, 13.
- KLESMAN, A. (2017) How many orbits? Around and around. *Astronomy* **45**, no. 12, 17..

- KLESMAN, A. (2023) Astronomy covers 50 years of science. *Astronomy* **51**, no. 8, 24–31..
- KLINE, R.L. (1995) Technology as a driver for improved space products. *Acta Astron.* **35**, 601–605.
- KLINGER, J. (1985) “Icy satellites, rings, and Pluto.” In *Ices in the Solar System*, ed. J. Klinger, D. Benest, A. Dollfus, and R. Smoluchowski (D. Reidel Publishing Co., Dordrecht), pp. 621–629.
- KNÖFEL, A. (2019) Beyond Jupiter — (134340) Pluto — The “Downgraded Planet”. *Jour. for Occultation Astronomy* **9**, no. 2, 18–20.
- KNOX, K. (2013) “Image analysis of the 2012 Pluto (near) occultation.” Paper given at *Proceedings of the Advanced Maui Optical and Space Surveillance Technologies Conference, September 10–13, 2013, Maui, HI*, 21.
- KNOX-SHAW, H. AND SMART, W.M. (1930) Meeting of the Royal Astronomical Society, Friday, 1930 April 11. *The Observatory* **53**, 129–140.
- KOCHEMASOV, G.G. (2016) .Convexo-concave shape of celestial bodies and natural response to compression and squeezing subsiding hemisphere in form of bulging (Vesta, Ceres, Hyperion, Pluto). *Lunar & Planetary Sci.* **47**, 1062 (Abstract).
- KOECKELEBERGH, A. (1991) Pluto & Charon. *Ciel et Terre* **107**, 27–28.
- KOHLER, P. (1992) Plutos by the million. *Ciel et Espace* **266**, 40–43.
- KOHLER, S. (2015) Prior clues of internal activity on Pluto. *AAS Nova Highlight (03 August 2015)*188.
- KOHLER, S. (2016) AAS 227: Day 1. *AAS Nova Highlight (06 January 2016)*591.
- KOHLER, S. (2016) A ninth planet in our solar system? *AAS Nova Highlight (20 January 2016)*637.
- KOHLER, S. (2016) Clues from Pluto’s ions. *AAS Nova Highlight (25 May 2016)*1025.
- KOHLER, S. (2019) Occultations suggest no rings for Ultima Thule. *AAS Nova Highlight (02 January 2019)*4636.
- KOHLER, S. (2019) Insights from MU69’s (lack of) craters. *AAS Nova Highlight (18 February 2019)*4813.
- KOKOTANEKOVA, R. (2022) Evolution of comet nuclei — recent findings and outlook to future telescope observations and space missions. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, B1.1-0018-22*, (Abstract).
- KOLLMANN, P., HILL, M.E., MCNUTT, R.M., SMITH, H.T., VANDEGRIFF, J., KUSTERER, M., BROWN, L., HAGGERTY, D.K., LISSE, C.M., ELLIOT, H.A., STROBEL, D., BAGENAL, F., SIDROW, E., MCCOMAS, D.J., HORANYI, M. ZIRNSTEIN, E., KRIMIGIS, S.M., ENNICO, K., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., AND STERN, S.A. (2015) First Results on Pluto’s energetic particle environment from the PEPSSI instrument. *Bull. Amer. Astron. Soc.* **47**, 105.10 (Abstract).
- KOLLMANN, P., HILL, M.E., MCNUTT, JR., R.L., BROWN, L.E., ALLEN, R.C., CLARK, G., ANDREWS, B., SALAZAR, N., WESTLAKE, J., ROMEO, G., VANDEGRIFF, J., KUSTERER, M., SMITH, D., JASKULEK, S., DECKER, R., CHENG, A.F., KRIMIGIS, S.M., LISSE, C.M., MITCHELL, D.G., AND WEAVER, H.A. (2019) Suprathermal ions in the outer heliosphere. *Astrophys. Jour.* **876**, no. 1, 46.
- KOLLMANN, P., HILL, M.E., ALLEN, R.C., MCNUTT, R.L., BROWN, L.E., BARNES, N.P., DELAMERE, P., CLARK, G., ANDREWS, G.B., SALAZAR, N., WESTLAKE, J., ROMEO, G., VANDEGRIFF, J., KUSTERER, M., SMITH, D., NELSON, K., JASKULEK, S., DECKER, R.B., CHENG, A.F., KRIMIGIS, S.M., LISSE, C.M., MITCHELL, D.G., WEAVER, H.A., ELLIOTT, H.A., FATTIG, E., GLADSTONE, G.R., VALEK, P.W., WEIDNER, S., KAMMER, J., BAGENAL, F., HORANYI, M., KAUFMANN, D., HARCH, A., OLKIN, C.B., PIQUETTE, M.R., SPENCER, J.R., YOUNG, L.A., ENNICO, K., SUMMERS, M.E., AND STERN, S.A. (2019) Pluto’s interaction with energetic heliospheric ions. *Jour. Geophys. Res. Space Physics* **124**, no. 9, 7413–7424.
- KOLLMANN, P., MCNUTT, R., ROELOF, E., HILL, M., BRANDT, P., WEAVER, H., SPENCER, J., SINGER, K., AND STERN, A. (2022) Propagation of suprathermal ions at 30AU. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, D1.6-0053-22*, (Abstract).
- KONCHADY, T. (2020) Orbits evolving under gravity. *AAS Nova Highlight (26 Jun 2020)*6718.

- KONRAD, G. (1983) Pluto und sein mond Charon. *Astron. Raumfahrt* **21**, no. 3, 72–73.
- KONSTANTINOV, M.S., LATYSHEV, L.A., POPOV, G.A., AND ENEEV, T.M. (1995) Small spacecraft using electrorocket thrusters for exploring distant planets and asteroids. *Acta Astron.* **35**, (suppl. issue) 221–229.
- KOPAL, Z. (1973) “Mercury and Pluto.” In *The solar system* (Oxford University Press, NY), 67–69.
- KOPAL, Z. (1979) “Mercury and Pluto: the sentinels of the solar system.” In *The realm of the terrestrial planets* (Halsted Press, NY), 99–110.
- KORDIK, E.J. (1990) Voyager 2 explores Neptune and its moon Triton—the latest on Uranus and Pluto. *EIAZ Oesterreichische Ingenieur- und Architekten-Zeitschrift* **135**, no. 12, 649–654.
- KORDYLEWSKI, J. (1956) Occultations by Pluto. *Acta Astron.* **6**, 32–33.
- KORDYLEWSKI, J. (1956) Appulses of Pluto to stars. *Acta Astron.* **6**, 203–204.
- KORDYLEWSKI, J. (1957) Ephemeris of Pluto’s appulses to stars (from October 1957 to June 1958). *Acta Astron.* **7**, 156–157.
- KORDYLEWSKI, J. (1957) Photographic observations of Pluto. *Acta Astron.* **7**, 218–220.
- KORDYLEWSKI, J. (1958) Ephemeris of Pluto’s appulses to stars. *Acta Astron.* **8**, 185–186.
- KOROLEVA, L.S. AND LAVDOVSKIL, V.V. (1985) Precise positions of Pluto during 1966–1970 according to photographic observations at Pulkovo. *Glavnaia Astronomicheskaiia Observatoriia* **203**, 50–51.
- KOROLEVA, L.S. BRONNIKOVA, N.M., VASIL’EVA, T.A., AND RYL’KOV, V.P. (1989) Photographic positions of Pluto for 1971–1986 on the basis of observations with the Pulkovo normal astrograph. *Izv. Glavnaia Obs. Pulkovo* **206**, 26–30.
- KOSAREV, I.B., NEMTCHINOV, I.V., AND SHUVALOV, V.V. (2002) Impact induced explosions at Pluto and associated IR flashes. *Asteroids, Comets, and Meteorites* **2002**, 871–872 (Abstract).
- KOSIAREK, M. (2016) *Modeling Pluto’s light curve in the near infrared: implications for observation post New Horizons*. S.M. thesis, Massachusetts Institute of Technology, Cambridge, MA.
- KOSKINEN, T.T., ERWIN, J.T., AND YELLE, R.V. (2015) On the escape of CH₄ from Pluto’s atmosphere. *Geophys. Res. Letters* **42**, no. 177200–7205.
- KOSKINEN, T., ERWIN, J.T., AND YELLE, R.V. (2015) Predictions for the escape of CH₄ from Pluto. *Bull. Amer. Astron. Soc.* **47**, 210.16 (Abstract).
- KOSMANN, W.J., HANSEN, C.J., AND SAGAN, C. (2020) IAC-19-F4.1.8 The Family Portrait of the solar system: the last set of images taken by Voyager 1 and the fascinating story of how they came to be. *Acta Astronautica* **177**, 425–437.
- KOSTINSKY, S. (1930) Transneptunischer planet (Objekt Slipher). *Acta Astron.* **1 Série C**, 102.
- KOTTARAS, G., PASCHALIDIS, N., AND PASCHALIDIS, V. (2004) The TRIO smart sensor data acquisition system on a chip for space applications. *Proceedings of the 2004 IEEE Aerospace Conference* **4**, 2384–2397.
- KOTTARAS, G., SARRIS, E., PASCHALIDIS, N., STAMATOPOULIS, N., AND PASCHALIDIS, V. (2004) Design of the TRIO system-on-chip for aerospace. *IEEE Transactions on Aerospace and Electronic Systems* **40**, no. 3, 862–878.
- KOURGANOFF, V. (1940) *La part de la mécanique céleste dans la découverte de Pluton*. Ph.D. dissertation, Gauthier-Villars, Paris, 187 pp.
- KOURGANOFF, V. (1940) La part de la mécanique céleste dans la découverte de Pluton. *Bull. Astron.* **12**, 147–258, 271–301, 303–311.
- KOURGANOFF, V. (1944) Nouvelles donnees sur l’histoire de la découverte de Pluton. *Ciel et Terre* **60**, 180–195.
- KOURGANOFF, V. (2003) Quelques problèmes posés par les découvertes de Pluton et de Neptune. *Comptes Rendus Physique* **4**, 305–310.

- KOVACH, S.J. (1981) Missions to the far outer planets. *Planetary Report* **1**, no. 5, 16–18.
- KOWAL, C., GOLDBREICH, P., TERRILE, R.J., WESTPHAL, J., TRAUGER, J., MUNCH, G., ROESLER, F.L., SOIFER, B.T., MATTHEWS, K., NEUGEBAUER, G., SARGENT, W.L.W., BOKSENBERG, A., AND ARNOLD, S.J. (1979) Solar system studies: Jupiter imaging at 5-microns, Jupiter magnetosphere, infrared observations of the planets, diameter of Pluto. *Annual Report to the Director of the Hale Observatories* 721.
- KOZAI, Y. (1985) Secular perturbations of resonant asteroids. *Cel. Mech.* **36**, 47–69.
- KOVALENKO, I.D. AND DORESSOUNDIRAM, A. (2016) Characterization of trans-Neptunian binaries. *Bull. Amer. Astron. Soc.* **48**, no. 7, 20 (Abstract).
- KOVALEVSKY, J. (1982) Hipparchos and the dynamics of the solar system. *Cel. Mech.* **26**, 213–220.
- KOZAK, M. (2001) Pluto mission bites the dust. *Astronomy* **29**, no. 11, 18.
- KOZLOVSKAYA, S.V. (1963) ??? *Byul. Inst. Teor. Astron.* **9**, no. 5, 108, 330.
- KRABBE, A. (1982) Charon—einst Teil des Pluto? *Sterne und Weltram* **21**, 235.
- KRAL, Q., PRINGLE, J.E., GUILBERT-LEPOUTRE, A., MATRÀ, L., MOSES, J.I., LELLOUCH, E., WYATT, M.C., BIVER, N., BOCKELÉE-MORVAN, D., BONSOR, A., LE PETIT, F., AND GLADSTONE, G.R. (2021) A molecular wind blows out of the Kuiper belt. *Astron. Astrophys. Lett.* **653**, L7.
- KRASNOPOLSKY, V.A. AND CRUIKSHANK, D.P. (1998) Pluto’s atmosphere above 1500 km. *Bull. Amer. Astron. Soc.* **30**, 1108 (Abstract).
- KRASNOPOLSKY, V.A. (1999) Photochemistry of Pluto’s atmosphere. *Technical Report, Catholic Univ. of America. Washington, DC 4120*.
- KRASNOPOLSKY, V.A. AND CRUIKSHANK, D.P. (1999) Photochemistry of Pluto’s atmosphere and ionosphere near perihelion. *Jour. Geophys. Res.* **104**, 21979–21996..
- KRASNOPOLSKY, V.A. (1999) Hydrodynamic flow of N₂ from Pluto. *Jour. Geophys. Res.* **104**, 5955–5962 (Abstract).
- KRASNOPOLSKY, V.A. (1999) Pluto’s upper atmosphere: structure and hydrodynamic escape. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- KRASNOPOLSKY, V.A. AND CRUIKSHANK, D.P. (1999) Photochemistry of Pluto’s atmosphere and ionosphere near perihelion. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- KRASNOPOLSKY, V.A. (2001) Middle ultraviolet spectroscopy of Pluto and Charon. *American Geophysical Spring Meeting* **P22B**, 06 (Abstract).
- KRASNOPOLSKY, V.A. (2001) Middle ultraviolet spectroscopy of Pluto and Charon. *Icarus* **153**, 277–284.
- KRASNOPOLSKY, V.A. (2012) Titan’s photochemical model: further update, oxygen species, and comparison with Triton and Pluto. *Planet. Spa. Sci.* **73**, 318–3264.
- KRASNOPOLSKY, V.A. (2018) Some problems in interpretation of the New Horizons observations of Pluto’s atmosphere. *Icarus* **301**, 152–154.
- KRASNOPOLSKY, V.A. (2019) Photochemical model of Pluto’s atmosphere and ionosphere. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7002 (Abstract).
- KRASNOPOLSKY, V. (2019) Photochemical model of Pluto’s atmosphere and ionosphere. *ESPC–DPS Joint Meeting* **13**, 193K (Abstract).
- KRASNOPOLSKY, V.A. (2020) A photochemical model of Pluto’s atmosphere and ionosphere. *Icarus* **no. 1**, 113374.
- KRASNOPOLSKY, V.A. (2020) On the methylacetylene abundance and nitrogen isotope ratio in Pluto’s atmosphere. *Planetary and Spa. Sci.* **192**, 105044.
- KRASS, M.S. (1986) Ice in the solar system. *Lunar & Planetary Sci.* **17**, 448–449 (Abstract).

- KREAMER, R.S. (1988) Questions & Answers. *Planetary Report* **8**, no. 5, 25.
- KRITZINGER, H.H. (1954) Transpluto, hypothetische elemente. *Nachrichtenblatt der Astronomische Zentralstelle* **8**, 4.
- KRITZINGER, H.H. (1957) Transpluto, hypothetische elemente. *Nachrichtenblatt Zentralstelle* **11**, 4.
- KRITZINGER, H.H. (1959) Transpluto, hypothetische elliptische elemente. *Nachrichtenblatt Zentralstelle* **13**, 3.
- KRITZINGER, H.H. (1963) Hypothetische transneptunische planeten. *Die Sterne* **39**, no. 1, 6–10.
- KRIVOV, A.V., SREMCEVIC, M., SPAHN, F., DIKAREV, V.V., AND KHOLSHEVNIKOV, K.V. (2003) Impact-generated dust clouds around planetary satellites: spherically symmetric case. *Planet. Spa. Sci.* **51**, 251–269.
- KRIVOV, A.V. AND BOOTH, M. (2018) Self-stirring of debris discs by planetesimals formed by pebble concentration. *Mon. Not. Roy. Astron. Soc.* **479**, no. 3, 3300–3307..
- KRIZ, K. (2015) What if New Horizons had laser communications? *Aerospace America* **53**, no. 8, 8–9.
- KROSS, J. (1993) Planet X: will X ever mark the spot? *Ad Astra* **5**, no. 5, 47–48.
- KRUMPHOLZ, H. (1940) Beobachtungen von Pluto und 1036 Ganymed. *Astron. Nachr.* **271**, 28.
- KRUMPHOLZ, H. (1947) Beobachtungen des Pluto an der Wiener Universitäts-Sternwarte. *Astron. Nachr.* **275**, 187.
- KRUPP, E.C. (2005) Complete set. *Sky and Tel.* **109**, no. 6, 46–47.
- KSANFOMALITI, L.V. (1987) Satellites of the giant planets and Pluto. *Seriia Kosmonavtika, Astron.* **6**, 1–64.
- KSANFOMALITY, L.V. (2016) Pluto: Dwarf planet 134340. *Spa. Sci. Rev.* **50**, no. 1, 67–80.
- KUDRYAVTSEV, S.M. AND KUDRYAVTSEVA, N.S. (2009) “Analytical representation of Pluto modern ephemeris.” In *Proceedings of the Journées 2008 “Systèmes de référence spatio-temporels” & X. Lohrmann-Kolloquium: Astrometry, Geodynamics and Astronomical Reference Systems* (Dresden, Germany), 79–80.
- KUDRYAVTSEV, S.M. AND KUDRYAVTSEVA, N.S. (2009) Accurate analytical representation of Pluto modern ephemeris. *Cel. Mech.Dyn.Astron.* **105**, no. 4, 353–360.
- KUIPER, G.P. (1944) Titan: a satellite with an atmosphere. *Astrophys. Jour.* **100**, 378–383.
- KUIPER, G.P. (1949) “Planetary atmospheres and their origin.” In *The atmospheres of the Earth and the planets*, ed. G.P. Kuiper (Univ. of Chicago Press, Chicago), pp. 369, and Plate XIII.
- KUIPER, G.P. (1949) Some results on planets. *Astron. Jour.* **54**, 191 (Abstract).
- KUIPER, G.P. (1950) The diameter of Pluto. *Pub. Astron. Soc. Pacific* **62**, 133–137.
- KUIPER, G.P. (1950) On the origin of the solar system. *Science* **112**, 452 (Abstract).
- KUIPER, G.P. (1951) “On the origin of the solar system.” In *Astrophysics—a topical symposium*, ed. J.A. Hynek (McGraw-Hill, NY), pp. 357–424.
- KUIPER, G.P. (1951) On the origin of the solar system. *Proc. Nat. Acad. Sci.* **37**, 1–14.
- KUIPER, G.P. (1956) The formation of the planets, Part I. *Jour. Roy. Astron. Soc. Canada* **50**, 57–68.
- KUIPER, G.P. (1956) The formation of the planets, Part III. *Jour. Roy. Astron. Soc. Canada* **50**, 171–173.
- KUIPER, G.P. (1956) The planet Pluto. *Science* **124**, no. 3216, 322 (Letter to editor).
- KUIPER, G.P. (1956) “On the origin of the satellites and the Trojans.” In *Vistas in Astronomy, Vol. 2*, ed. A. Beer (Permgon Press, NY), pp. 1631–1666.
- KUIPER, G.P. (1957) Further studies on the origin of Pluto. *Astrophys. Jour.* **125**, 287–289.
- KUIPER, G.P. (1961) “Limits of Completeness.” In *Planets and Satellites*, ed. G.P. Kuiper and B.M. Middlehurst (Univ. of Chicago Press, Chicago), pp. 575–591.

- KULKAMI, T.R. AND DHARNE, A.G. (2005) “Interplanetary communication network for outer planets of solar system.” Paper given at *Space 2005*, Long Beach, CA. AIAA paper #2005.6704.
- KUMAGAI, J. (1998) Sweden recreates the solar system. *Physics Today* **51**, no. 7, 55.
- KUSNIERKIEWICZ, D.Y., HERSMAN, C.B., GUO, Y., KUBOTA, S., AND MCDEVITT, J. (2005) A description of the Pluto-bound New Horizons spacecraft. *Acta Astronautica* **57**, 135–144.
- KUSNIERKIEWICZ, D.Y., HERSMAN, C.B., FOUNTAIN, G.H., VERNON, S.R., AND STRATTON, J.M. (2006) “System engineering challenges on the New Horizons project.” Paper given at *57th International Astronautical Congress*, Valencia, Spain, IAC paper #06-D1.05.03.
- KUSNIERKIEWICZ, D.Y., FOUNTAIN, G., GUO, Y. AND HERSMAN, C.B. (2008) The New Horizons Mission to the Pluto system and the Kuiper Belt. *Proceedings of the 2008 IEEE Aerospace Conference* **1**, 1–10.
- KUTSOP, N.W., HAYES, A.G., BURATTI, B.J., CORLIES, P.M., ENNICO, K., FAN, S., GLADSTONE, R., HELFENSTEIN, P., HOFGARTNER, J., HICKS, M., LEMMON, M., LUNINE, J.I., MOORE, J., OLKIN, C.B., PARKER, A.H., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SCIENCE TEAM. (2020) Pluto’s haze abundance and size from limb scatter observations by MVIC. *Lunar & Planetary Sci.* **51**, 2413 (Abstract).
- KUTSOP, N., HAYES, A., BURATTI, B., CORLIES, P., FAN, S., GLADSTONE, R., HELFENSTEIN, P., HOFGARTNER, J., HICKS, M., LEMMON, M., LUNINE, J., MOORE, J., OLKIN, C., PARKER, A., STERN, S., WEAVER, H., YOUNG, L., THE NEW HORIZONS SCIENCE TEAM, AND SMITH, K. (2020) Pluto’s haze abundance and size distribution from limb scatter observations by MVIC. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.05 (Abstract).
- KUTSOP, N., HAYES, A., BURATTI, B., CORLIES, P., FAN, S., GLADSTONE, R., HELFENSTEIN, P., HOFGARTNER, J., HICKS, M., LEMMON, M., LUNINE, J., MOORE, J., OLKIN, C., PARKER, A., STERN, S., WEAVER, H., YOUNG, L., THE NEW HORIZONS SCIENCE TEAM, AND SMITH, K. (2021) Pluto’s haze abundance and size distribution from limb scatter observations by MVIC. *Planetary Sci. Jour.* **2**, no. 3, 91.
- KUZ’MICHEV, V.V. AND TOMANOV, V.P. (2006) Searches for transplutonian planets using long-period comets. *Astron. Lett.* **32**, no. 5, 353–360.
- KUZNETSOV, E., AL-SHIBLAWI, O., AND GUSEV, V. (2022) Dynamic evolution of pairs of trans-Neptunian objects. *Bull. Amer. Astron. Soc.* **54**, no. 6, 2022n6i350p01.
- KVORKA, J. AND ČADEK, O. (2024) The role of subsurface ocean dynamics and phase transitions in forming the topography of icy moons. *Icarus* **412**, no. 4?, 115985.
- KWIECINSKI, J.A., KOVACS, A., KRAUSE, A.L., PLANELLA, F.B., AND VAN GORDER, R.A. (2018) Chaotic dynamics in the planar gravitational many-body problem with rigid body rotations. *International Journal of Bifurcation and Chaos* **28**, no. 5, 1830013–1069.
- LA, D. (1992) On the spacing pattern of planets and satellites. *Jour. Korean Astron. Soc.* **25**, 105–109.
- LABUSHCAGNE, L. (2015) Pluto’s atmosphere: what occultations reveal prior to New Horizons’ arrival. *MNASSA* **74**, nos. 3 & 4, 60–63.
- LACERDA, P. (2004) “The sizes of Kuiper Belt Objects.” In *Proceedings he SPICA Joint European Japanese Workshop, 2004*, ed. A.M. Heras, B.M. Swinyard, K.G. Isaak, and J.R. Goicoechea (6–8 July 2009, Oxford, UK), pp. 6 pp.
- LACERDA, P. AND JEWITT, D.C. (2007) Densities of solar system objects from their rotational light curves. *Astron. Jour.* **133**, no. 4, 1393–1408.
- LACHIÈZE-REY, M. (1987) Pluto and Charon, a mysterious couple. *La Recherche* **18**, 1118–1119.
- LACIS, A.A. AND FIX, J.D. (1972) An analysis of the light curve of Pluto. *Bull. Amer. Astron. Soc.* **2**, 327 (Abstract).
- LACIS, A.A. AND FIX, J.D. (1972) An analysis of the light curve of Pluto. *Astrophys. Jour.* **174**, 449–453.

- LACROUTE, P. (1938) Positions de Pluton observées à l’Observatoire de Toulouse (Télescope de 80 cm.) *Jour. des Observateurs* **21**, 21.
- LACRUZ, J., LACRUZ, J.A., AND LACRUZ, J.M. (2003) Pluto Observations [J87 La Cañada]. *Minor Planet Circular* 49424, 2.
- LAGES, J. AND SHEVCHENKO, I.I (2020) Dynamical environments of MU69: a state of chaotic clearing. *Origins: From the Protosun to the First Steps of Life. Proceedings of the International Astronomical Union* **345**, 227–229.
- LAMBERT, J., HALL, D., ROBERTS, JR., L.C., HAMADA, K., AFRICANO, B., ALDAY, A., BARROS, J., LAW, B., SYDNEY, P., AFRICANO, J., AND KERVIN, P. (2002) Observations near-Earth asteroid 2002-NY40 and other solar system targets from the AMOS Observatory. *Bull. Amer. Astron. Soc.* **34**, 1172 (Abstract).
- LAMPLAND, C.O. (1931) Lowell photographic observations of Pluto. *Pub. Astron. Soc. Pacific* **43**, 284–286.
- LAMPLAND, C.O. (1931) Lowell photographic observations of Pluto in 1915, 1929, and 1930. *Pub. Amer. Astron. Soc.* **7**, 7–8.
- LAMPLAND, C.O. (1951) Astronomy’s debt to U. S. government institutions. *Astron. Jour.* **56**, 132.
- LANDGRAF, M. (2005) The Sun’s dust disk — discovery potential of the New Horizons mission during interplanetary cruise. *Lunar & Planetary Sci.* **36**, 1183 (Abstract).
- LANDIS, R. (1992) Pluto, past, present and future. *Griffith Obs.* **56**, 2.
- LANE, W.A. (1975) *Infrared photometry of Pluto*. M.S. thesis, University of Iowa, Iowa City, IA.
- LANE, W.A., NEFF, J.S. AND FIX, J.D. (1976) A measurement of the relative reflectance of Pluto at 0.86 micron. *Pub. Astron. Soc. Pacific* **88**, 77–79.
- LANG, K.R. (1982) Book Review: *Out of the darkness: the planet Pluto*, by C.W. Tombaugh and P. Moore *Jour. Hist. Astron.* **13**, 136.
- LANG, K.R. (1980) Book Review: *Planets X and Pluto*, by W.G. Hoyt *Amer. Jour. Phys.* **48**, 583–584.
- LANG, R. AND SPEZIO, M. (2013) “Mission assurance increased with regression testing” Paper given at *Proceedings of the 2013 IEEE Aerospace Conference*, Big Sky, MT, 1–8.
- LANZEROTTI, L.J., BROWN, W.L., AND MARCANTONIO, K.J. (1987) Experimental study of erosion of methane ice by energetic ions and some considerations for astrophysics. *Astrophys. Jour.* **313**, 910–919.
- LAPOTRE, M. (2019) When one planet is not enough: making progress in geology using other planets as full scale experiments. *Proceedings of the EGU General Assembly, EGU 2019* **21**, 3185.
- LARA, L. AND IP, W.-H. (1994) Photochemical modelling of Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **26**, 1168–1169 (Abstract).
- LARA, L. IP, W.-H., AND RODRIGO, R. (1997) Photochemical models of Pluto’s atmosphere. *Icarus* **130**, 16–35.
- LARSON, H.P. (1980) Infrared spectroscopic observations of the outer planets, their satellites, and the asteroids. *Ann. Rev. Astron. Astrophys.* **18**, 43–75.
- LARSSON-LEANDER, G. (1969) Plutos massa. *Astron. Tidssk.* **2**, 99.
- LASKAR, J. (1989) A numerical experiment on the chaotic behavior of the solar system. *Nature* **338**, 237–238.
- LASKAR, J. (1996) Large-scale chaos in the solar system and planetological consequences. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris) Serie IIA—Sciences de la Terre et des planètes* **322**, 163–180.
- LASKAR, J. (1996) Marginal stability and chaos in the solar system. *IAU Symposium* **172**, 75–88.
- LASKAR, J., QUINN, T.R. AND TREMAINE, S. (1992) Confirmation of resonant structure in the solar system. *Icarus* **95**, 148–152.
- LAU, H.-E. (1900) Planètes inconnues. *L’Astronomie* **14**, 340–341.

- LAU, H.-E. (1901) Planètes transneptuniennes. *L'Astronomie* **15**, 505–507.
- LAU, H.-E. (1901) Même sujet. *L'Astronomie* **14**, 507–508.
- LAU, H.-E. (1907) Sur la question de planètes transneptuniennes. *L'Astronomie* **20**, 251.
- LAU, H.-E. (1909) A la recherche de la planète transneptunienne. *L'Astronomie* **23**, 97.
- LAU, H.-E. (1914) La planète transneptunienne. *L'Astronomie* **28**, 276–283.
- LAUER, T.R., THROOP, H.B., SHOWALTER, M.R., WEAVER, H.A., STERN, S.A., SPENCER, J.R., BUIE, M.W., HAMILTON, D.P., PORTER, S.B., VERBISCHER, A.J., YOUNG, L.A., OLKIN, C.B., ENNICO, K., AND THE NEW HORIZONS SCIENCE TEAM. (2017) The New Horizons and Hubble Space Telescope search for rings, dust, and debris in the Pluto–Charon system. *Icarus* **301**, 155–172.
- LAUER, T.R., THROOP, H.B., SHOWALTER, M.R., WEAVER, H.A., STERN, S.A., SPENCER, J.R., BUIE, M.W., HAMILTON, D.P., PORTER, S.B., VERBISCHER, A.J., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K. (2019) The New Horizons and Hubble Space Telescope search for rings, dust, and debris in the Pluto/Charon system. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7041 (Abstract).
- LAUER, T.R., POSTMAN, M., WEAVER, H.A., SPENCER, J.R., STERN, S.A., BUIE, M.W., DURDA, D.D., LISSE, C.M., POPPE, A.R., BINZEL, R.P., BRITT, D.T., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., HORÁNYI, M., KAVELAARS, J.J., LINSKOTT, I.R., MCKINNON, W.B., MOORE, J.M., NÚÑEZ, J.I., OLKIN, C.B., PARKER, J.W., PORTER, S.B., REUTER, D.C., ROBBINS, S.J., SCHENK, P., SHOWALTER, M.R., SINGER, K.N., VERBISCHER, A.J., AND YOUNG, L.A. (2021) New Horizons observations of the cosmic optical background. *Astrophys. Jour.* **906**, no. 2, 77.
- LAUER, T.R., SPENCER, J.R., BERTRAND, T., BEYER, R.A., RUNYON, K.D., WHITE, O.L., YOUNG, L.A., ENNICO, K., MCKINNON, W.B., MOORE, J.M., OLKIN, C.B., STERN, S.A., AND WEAVER, H.A. (2021) The dark side of Pluto. *Planetary Sci. Jour.* **2**, no. 5, 214.
- LAUER, T.R., POSTMAN, M., SPENCER, J.R., WEAVER, H.A., STERN, S.A., GLADSTONE, G.R., BINZEL, R.P., BRITT, D.T., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., HORÁNYI, M., KAVELAARS, J.J., LINSKOTT, I.R., LISSE, C.M., MCKINNON, W.B., MCNUTT, R.L., MOORE, J.M., NÚÑEZ, J.I., OLKIN, C.B., PARKER, J.W., PORTER, S.B., REUTER, D.C., ROBBINS, S.J., SCHENK, P., SHOWALTER, M.R., SINGER, K.N., VERBISCHER, A.J., AND YOUNG, L.A. (2022) Anomalous flux in the cosmic optical background detected with New Horizons observations. *Astroph. Jour. Lett.* **927**, no. 1, L8.
- LAUER, T.R., POSTMAN, M., SPENCER, J.R., WEAVER, H.A., STERN, S.A., GLADSTONE, G.R., BINZEL, R.P., BRITT, D.T., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., HORÁNYI, M., KAVELAARS, J.J., LINSKOTT, I.R., LISSE, C.M., MCKINNON, W.B., MCNUTT, R.L., MOORE, J.M., NÚÑEZ, J.I., OLKIN, C.B., PARKER, J.W., PORTER, S.B., REUTER, D.C., ROBBINS, S.J., SCHENK, P.M., SHOWALTER, M.R., SINGER, K.N., VERBISCHER, A.J., AND YOUNG, L.A. (2022) Anomalous flux in the cosmic optical background detected with New Horizons observations. *Astrophys. Jour. Lett.* **927**, no. 1, L8.
- LAVDOVSKY, V.V. (1952) Tochnye polozheniia planety Plutona po fotograficheskim nabludeniiam v Pulkove. Exact positions of the planet Pluto established with photographic observations from Pulkovo. *Mitteilungen der Nikolai-Hauptsternwarte zu Pulkowo* **19**, C145–C150.
- LAVDOVSKY, V.V. (1968) Tochnye polozheniia Plutona za 1930-1965 gg. po fotograficheskim nabludeniiam v Pulkove. *Izv. Glavnaia Astron. Obs. Pulkovo* **183**, 118–127.
- LAVITT, M.O. (1992) Mission to Pluto. *Aviation Week & Space Technology* **137**, no. 17, 278.
- LAVITT, M.O. (1994) Help for Pluto mission. *Aviation Week & Space Technology* **140**, no. 2, 15.
- LAVVAS, P., STROBEL, D.F., LELLOUCH, E., GURWELL, M.A., CHENG, A.F., SUMMERS, M., AND GLADSTONE, R. (2016) Photochemical aerosol formation in planetary atmospheres: a comparison between Pluto and Titan. *Bull. Amer. Astron. Soc.* **48**, no. 7, 145–146 (Abstract).
- LAWLER, A. (1996) Crunch ahead for space science. *Science* **271**, 1660–1661.

- LAWLER, A. (2000) NSF and NASA score last-minute victories. *Science* **290**, 683.
- LAWLER, A. (2000) Push to revive Pluto mission may mean competition for JPL. *Science* **290**, 1270–1271.
- LAWLER, A. (2000) NASA blasted for rising costs, cancellations. *Science* **290**, 1666.
- LAWLER, A. (2001) NASA’s street fighter takes on tangled space science program. *Science* **291**, 30–32.
- LAWLER, A. (2001) Budget could send space science off in new directions at NASA. *Science* **291**, 1883.
- LAWLER, A. (2001) Pluto and pork win out at NASA. *Science* **294**, 1430.
- LAWLER, A. (2001) Insider takes over at NASA. *Science* **294**, 1632–1633.
- LAWLER, A. (2001) Pluto power. *Science* **294**, 2070.
- LAWLER, A. (2002) Panel plots clear path for planetary program. *Science* **297**, 317–318.
- LAWLER, A. (2002) NASA budget—plans for Pluto and Hubble gain in Congress. *Science* **298**, 5593.
- LAWLER, A. (2003) Can NASA’s promethean vision bring back heavenly data? *Science* **299**, 1069–1070.
- LAWLER, A. (2003) Budget cut causes Pluto panic. *Science* **301**, 745.
- LAWLER, A. (2004) Los Alamos’s woes spread to Pluto mission. *Science* **305**, no. 5686, 930.
- LAWLER, A. (2007) Stern but kind at NASA. *Science* **315**, 585.
- LAWLER, A. (2007) Ganging up on Jupiter. *Science* **315**, 1351.
- LAWLER, A. (2007) Taking a Stern look at NASA science. *Science* **315**, 1484.
- LAWREN, B. (1995) Ninth rock from the sun: researchers want to send spacecraft to Pluto—before it’s too late. *Omni* **17**, no. 8, 28.
- LAWTON, A.T. (1978) Charon—a companion to Pluto. *Spaceflight* **20**, 428–429.
- LAWTON, A.T. (1979) The many shades of the 10th planet. *Spaceflight* **21**, 115–123.
- LAWTON, A.T. (1980) “Odin” — The tenth planet: a near discovery in 1795. *Spaceflight* **22**, 67–69.
- LEAR, M., MCGRATH, B., TAKASHIMA, N., AND HEYLER, G. (2007) JHU/APL Breakup Analysis Tool (APLbat) for the New Horizons radiological contingency. *Space Technology and Applications International Forum–STAIF 2007: 11th Conf. Thermophys. Applic. in Micrograv., 24th Symp Space Nucl. Pwr. Propulsion, 5th Conf. Hum/Robotic Tech. & Vision Space Explor., 5th Symp Space Coloniz., 4th Symp New Frontiers & Future Con. AIP Conference Proceedings* **880**, 571–578.
- LEBOFSKY, L.A., RIEKE, G.H., AND LEBOFSKY, M.J. (1979) Surface composition of Pluto. *Icarus* **37**, 554–558.
- LEBOFSKY, L.A., RIEKE, G.H., AND LEBOFSKY, M.J. (1982) The radii and albedos of Triton and Pluto. *Bull. Amer. Astron. Soc.* **14**, 766 (Abstract).
- LEBOFSKY, L.A. (1986) Infrared observations of planets. *Reports of Planetary Astronomy—1985 NASA Technical Memorandum* **89189**, 102–103 (Abstract).
- LEBOFSKY, L.A. (1987) Infrared observations of solar system objects. *Reports of Planetary Astronomy—1986 NASA Technical Memorandum* **4329**, 66–67 (Abstract).
- LEBOFSKY, L.A. (1991) Infrared observations of solar system objects. *Reports of Planetary Astronomy—1991 NASA Technical Memorandum* **4329**, 77–78 (Abstract).
- LEBOFSKY, L.A. (1993) 1982 observations of Pluto at 22.5 μm . *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- LEBOFSKY, L. AND BUXLER, S. (2021) Classifying solar system objects: is Pluto a planet or not? *Bull. Amer. Astron. Soc.* **53**, no. 7, 410.04 (Abstract).
- LEBORGNE, J.-F. (1987) L’observation de phénomènes mutuels “Pluto–Charon.” *Annales des Physique* **12**, 217–219.
- LEDBETTER, K.W. (1971) “Grand Tour Mission set selection-evaluation and optimization.” Paper given at *AIAA/AAS Specialists Conference*, Ft. Lauderdale, Fla. August 17–19, 1971.

- LEDBETTER, K.W. (1971) “Grand Tour Mission set selection-evaluation and optimization.” Paper given at *AIAA/AAS Specialists Conference*, Ft. Lauderdale, Fla. August 17-19, 1971.
- LEDVINA, S.A., LUHMANN, J.G., CRAVENS, T.E., AND BRECHT, S.H. (2001) “Comparisons of pick-up ions around weakly magnetized bodies.” Paper given at *American Geophysical Union Meeting, Spring 2001*, Abstract SM32D-01.
- LEE, M.H. AND PEALE, S.J. (2006) On the orbits and masses of the satellites of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **37**, 16.01 (Abstract).
- LEE, M.H. AND PEALE, S.J. (2006) On the orbits and masses of the satellites of the Pluto–Charon system. *Icarus* **184**, 573–583.
- LEE, Y.Y. (2022) The initial state of Pluto–Charon with tidal evolution. Submitted to *arXiv:2203.16790*.
- LEECE, S. (1999) The plight of Pluto. *Natural History* **108**, no. 4, 8.
- LE GALL, A., LORENZ, R., AND LEYRAT, C. (2015) Probing Pluto’s Underworld: predicted ice temperatures from microwave radiometry decoupled from surface conditions. *Bull. Amer. Astron. Soc.* **47**, 210.07 (Abstract).
- LEI, H., LI, J., HUANG, X., AND LI, M. (2022) The Von Zeipel-Lidov-Kozai Effect inside mean motion resonances with applications to trans-Neptunian objects. *Astron. Jour.* **164**, no. 3, 74.
- LEIPOLD, M. (1999) To the Sun and Pluto with solar sails and micro-sciencecraft. *Acta Astron.* **45**, 549–555.
- LEIVA, R., BUIE, M.W., AND KELLER, J. (2018) Status and results from the Research and Education Collaborative Occultation Network (RECON). *Bull. Amer. Astron. Soc.* **50**, 509.10 (Abstract).
- LELIWA-KOPYSTYNSKI, J. (1999) Book Review: *Pluto and Charon*, eds. S. Alan Stern and D.J. Tholen. *Pure and Applied Geophysics* **154**, no. 1, 207–208.
- LELIWA-KOPYSTYNSKI, J. (1999) Book Review: *Pluto and Charon: ice worlds at the ragged edge of the solar system*, by A. Stern and J. Mitton. *Pure and Applied Geophysics* **154**, no. 1, 209–210.
- LELIWA-KOPYSTYNSKI, J. AND CZECHOWSKI, L. (2000) Steady state convection within medium-size icy satellites. *Bull. Amer. Astron. Soc.* **32**, 1079 (Abstract).
- LELLOUCH, E. (1993) Pluto’s thermal structure: clear *vs.* hazy models. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- LELLOUCH, E. (1994) The thermal structure of Pluto’s atmosphere: clear *vs.* hazy models *Icarus* **108**, 255–264.
- LELLOUCH, E., LAUREIJS, R., SCHMITT, B., QUIRICO, E., DE BERGH, C., CROVISIER, J., AND COUSTENIS, A. (1998) ISOPHOT observations of the Pluto–Charon system: Pluto’s thermal lightcurve. *Bull. Amer. Astron. Soc.* **30**, 1061 (Abstract).
- LELLOUCH, E., LAUREIJS, R., SCHMITT, B., QUIRICO, E., DE BERGH, C., CROVISIER, J., AND COUSTENIS, A. (1999) Pluto’s non-isothermal surface from ISO observations. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- LELLOUCH, E., LAUREIJS, R., SCHMITT, B., QUIRICO, E., DE BERGH, C., CROVISIER, J., AND COUSTENIS, A. (2000) Pluto’s non-isothermal surface. *Icarus* **147**, 220–250.
- LELLOUCH, E. (2000) “Pluto and Charon.” In *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Bristol, Institute of Physics Publishing), pp. 1829.
- LELLOUCH, E., PAUBERT, G., MORENO, R., AND SCHMITT, B. (2000) Note: Search for variations in Pluto’s millimeter-wave emission. *Icarus* **147**, 580–584.
- LELLOUCH, E., STANSBERRY, J., CRUIKSHANK, D., EMERY, J., AND GRUNDY, W. (2006) Pluto’s thermal lightcurve: Spitzer MIPS and IRS observations. *Bull. Amer. Astron. Soc.* **38**, 518 (Abstract).
- LELLOUCH, E., STANSBERRY, J., EMERY, J., GRUNDY, W., AND CRUIKSHANK, D.P. (2011) Thermal properties of Pluto’s and Charon’s surfaces from *Spitzer* observations. *Icarus* **214**, 701–716.

- LELLOUCH, E. (2008) Planetary atmospheres with ALMA. *Astrophys. Space Sci.* **313**, 175–181..
- LELLOUCH, E., SICARDY, B., DE BERGH, C., KÄUFL, H.U., KASSI, S., AND CAMPARGUE, A. (2009) Pluto’s lower atmosphere structure and methane abundance from high-resolution spectroscopy and stellar occultations. *Astron. Astrophys.* **495**, L17–L21.
- LELLOUCH, E., DE BERGH, C., MORENO, R., SICARDY, B., AND KÄUFL, H. (2009) Search for CO in Pluto’s and Triton’s atmospheres. *Bull. Amer. Astron. Soc.* **41**, 608 (Abstract).
- LELLOUCH, E., DE BERGH, C., SICARDY, B., AND KÄUFL, H.U. (2010) Surface-atmosphere interactions on Triton and Pluto. *EPSC Abstracts* **5**, 576 (Abstract).
- LELLOUCH, E., DE BERGH, C., SICARDY, B., FERRON, S., AND KÄUFL, H.U. (2010) Detection of CO in Triton’s atmosphere and the nature of surface-atmosphere interactions. *Astron. Astrophys. Lett.* **512**, L8.
- LELLOUCH, E., DE BERGH, C., SICARDY, B., KÄUFL, H.U., AND SMETTE, A. (2011) High resolution spectroscopy of Pluto’s atmosphere: detection of the 2.3 μm CH₄ bands and evidence for carbon monoxide. *Astron. Astrophys.* **530**, L4–L7 (Letter to editor.).
- LELLOUCH, E., DE BERGH, C., SICARDY, B., KÄUFL, H.U., AND SMETTE, A. (2011) The tenuous atmospheres of Pluto and Triton explored by CRIFRES on the VLT. *Messenger* **145**, 20–23.
- LELLOUCH, E., DE BERGH, C., SICARDY, B., FORGET, F., VANGVICHITH, M., AND KÄUFL, H.-U. (2015) Exploring the spatial, temporal, and vertical distribution of methane in Pluto’s atmosphere. *Icarus* **246**, 268–278.
- LELLOUCH, E., GURWELL, M., BUTLER, B., MOULLET, A., MORENO, R., BOCKELEE-MORVAN, D., BIVER, N., FOUCHET, T., LIS, D., STERN, A., YOUNG, L., YOUNG, E., WEAVER, H., BOISSIER, J., AND STANSBERRY, J. (2015) (134340) Pluto. *IAU Circular No.* 9273, 1.
- LELLOUCH, E., GURWELL, M., BUTLER, B., MOULLET, A., MORENO, R., BOCKLÉE-MORVIN, D., BIVER, N., FOUCHET, T., LIS, D., STERN, A., YOUNG, L., YOUNG, E., WEAVER, H., BOISSIER, J., AND STANSBERRY, J. (2015) Detection of HCN in Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **47**, 105.07 (Abstract).
- LELLOUCH, E., SANTOS-SANZ, P., FORNASIER, S., LIM, T., STANSBERRY, J., VILENIUS, E., KISS, C., MÜLLER, T., MARTON, G., PROTOPAPA, S., PANUZZO, P., AND MORENO, R. (2016) The long-wavelength thermal emission of the Pluto–Charon system from Herschel observations. Evidence for emissivity effects. *Astron. Astrophys.* **588**, A2.
- LELLOUCH, E., GURWELL, M., BUTLER, B., FOUCHET, T., LAVVAS, P., STROBEL, D.F., SICARDY, B., MOULLET, A., MORENO, R., BOCKELÉE-MORVAN, D., BIVER, N., YOUNG, L., LIS, D., STANSBERRY, J., STERN, A., WEAVER, H., YOUNG, E., ZHU, X., AND BOISSIER, J. (2017) Detection of CO and HCN in Pluto’s atmosphere with ALMA. *Icarus* **286**, 289–307.
- LELLOUCH, E., MORENO, R., MÜLLER, T., FORNASIER, S., SANTOS-SANZ, P., GURWELL, M., STANSBERRY, J., LEIVA, R., SICARDY, B., BUTLER, B., AND BOISSIER, J. (2017) The thermal emission of Centaurs and trans-Neptunian objects at millimeter wavelengths from ALMA observations. *Astron. Astrophys.* **608**, A45.
- LELLOUCH, E., GURWELL, M., MORENO, R., LAVVAS, P., BUTLER, B., STROBEL, D., FOUCHET, T., MOULLET, A., BOCKLÉE-MORVAN, D., AND BIVER, N. (2018) Pluto’s atmosphere with ALMA: disk-resolved observations of CO and HCN, and first detection of HNC. *Bull. Amer. Astron. Soc.* **50**, 314.03 (Abstract).
- LELLOUCH, E., BUTLER, B., MORENO, R., GURWELL, M., LAVVAS, P., BERTRAND, T., FOUCHET, T., STROBEL, D.F., AND MOULLET, A. (2022) Pluto’s atmosphere observations with ALMA: spatially-resolved maps of CO and HCN emission and first detection of HNC. *Icarus* **372**, 114722.
- LEMBÉGE, B., YANG, Z., AND ZANK, G.P. (2020) Energy power spectra measured at an interplanetary shock by the New Horizon’s SWAP experiment: 1D full particle simulations versus observations. *Astrophys. Jour.* **890**, no. 1, 48.

- LEMONICK, M. (2016) Plutonic love. *Smithsonian* **46**, no. 3, 17–23, 88.
- LENHART, E.M., BERRONDO, M., RADEBAUGH, J., TELFER, M.W., AND PARTELI, E. (2019) Application of a physical model to dune pattern emergence on Pluto. *Pluto System After New Horizons*, LPI Contribution No. 2133, Lauri, MD, 2019 July 14–18, 7064 (Abstract).
- LEONARD, F.C. (1930) The new planet Pluto. *A.S.P. Leaflet No. 30*, 121–124.
- LEONARD, F.C. (1939) Some astronomical terms. *Pub. Astron. Soc. Pacific* **51**, 210–212.
- LEONARD, L. (1921) *Percival Lowell: an afterglow*. (R.G. Badger, Boston, MA), 163 pp.
- LEUBNER, I.H. (2006) Stability of planetary orbits. *AGU Fall Meeting* **P51A**, 1190 (Abstract).
- LEVERRIER, U.-J. (1848) Remarques de M. LeVerrier à la occasion de la communication précédente. *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **55**, 208–210.
- LEUSCHNER, A.O. AND SHAPLEY, H. (1931) Pluto. *Harvard College Observatory Announcement Card148*.
- LEUSCHNER, A.O. AND SHAPLEY, H. (1931) Pluto. *Harvard College Observatory Announcement Card157*.
- LEUSCHNER, A.O. (1932) The astronomical romance of Pluto. *Pub. Astron. Soc. Pacific* **44**, 197–214.
- LEUSCHNER, A.O. (1935) The minor planets: stray sheep of the solar system. *Scientific Monthly* **41**, no. 3, 266–269.
- LEVERINGTON, D. (1995) ““Small bodies of the solar system.” Chapter 6.” In *A history of astronomy from 1890 to the present*. (NY, Springer-Verlag), 96–103.
- LEVINE, J.S. AND GRAEDEL, T.E. (1981) Photochemistry in planetary atmospheres. *Eos* **62**, 1177–1181.
- LEVINE, S., BOSH, A.S., PERSON, M.J., OSIP, D.J., ZULUAGA, C., ROJO, P., KOSIAREK, M., THANATHIBODEE, T., AND KULCHOAKRUNGSUN, E. (2014) Upper limit on dust in the Pluto system. *Bull. Amer. Astron. Soc.* **46**, 419.08 (Abstract).
- LEVISON, H.F. AND STERN, S.A. (1993) Mapping the stability region of the 3:2 Neptune–Pluto resonance. *Lunar & Planetary Sci.* **24**, 869–870 (Abstract).
- LEVISON, H.F., AND STERN, S.A. (1993) The early dynamical history of the Pluto–Charon system. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- LEVISON, H.F., AND STERN, S.A. (1993) The early dynamical history of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **25**, 1138 (Abstract).
- LEVISON, H.F. AND STERN, S.A. (1995) Kuiper Belt Object encounters with the Pluto–Charon binary: a mechanism for exciting Charon’s orbital eccentricity. *Lunar & Planetary Sci.* **26**, 841–842 (Abstract).
- LEVISON, H.F. AND STERN, S.A. (1995) Possible origin and early dynamical evolution of the Pluto–Charon binary. *Icarus* **116**, 315–339.
- LEVISON, H.F., MORBIDELLI, A., VAN LAERHOVEN, C., GOMES, R., AND TSIGANIS, K. (2008) Origin of the structure of the Kuiper belt during a dynamical instability in the orbits of Uranus and Neptune. *Icarus* **196**, no. 1, 258–273.
- LEVISON, H.F. AND WALSH, K. (2013) The formation of Pluto’s small satellites. *Bull. Amer. Astron. Soc.* **44**, 201.04 (Abstract).
- LEVISON, H.F. AND WALSH, K. (2013) Forming small satellites of Pluto. *Bull. Amer. Astron. Soc.* **45**, 503.05 (Abstract).
- LEOVY, C.B. AND POLLACK, J.B. (1973) A first look at atmospheric dynamics and temperature variations on Titan. *Icarus* **19**, 195–201.
- LEVY, D.H. (1986) Clyde Tombaugh is 80: A look back at Pluto. *Astronomy* **14**, 26–27.
- LEVY, D.H. (1988) Startrails. *Sky and Tel.* **75**, no. 3, 316–317.
- LEVY, D.H. (1989) Has Clyde Tombaugh visited you? *Astronomy* **17**, No. 3, 18.
- LEVY, D.H. (1991) A grand gathering of galaxies. *Astronomy* **19**, no. 3, 44–51.

- LEVY, D.H. (1991) Book Review: *Planets X and Pluto*, by W.G. Hoyt *Star and Sky* **3**, 60.
- LEVY, D.H. (1991) *Clyde Tombaugh: discoverer of Planet Pluto* (Univ. of Arizona Press, Tucson), 211 pp.
- LEVY, D.H. (1992) StarTrails. *Sky and Tel.* **83**, no. 4, 455–456.
- LEVY, D.H. (1992) Clyde Tombaugh: the man who found Pluto. *Odyssey* **1**, no. 4, 14–19.
- LEVY, D.H. (1992) Tombaugh’s star: a detective story. *Odyssey* **1**, no. 4, 34–37.
- LEVY, D.H. (1994) Is Pluto a major planet? Yes. *Sky and Tel.* **88**, no. 2, 8–9.
- LEVY, D.H. (1994) A toast to friends, present and absent. *Sky and Tel.* **88**, no. 4, 100–101.
- LEVY, D.H. (1996) Mrs. Pluto’s special journey. *Sky and Tel.* **91**, no. 6, 84–85.
- LEVY, D.H. (1996) StarTrails: Celebrating the century mark. *Sky and Tel.* **92**, no. 1, 101–102.
- LEVY, D.H. (1997) The empty chair. *Sky and Tel.* **93**, no. 4, 102–103.
- LEVY, D.H. (1997) Clyde William Tombaugh (4 February 1906 - 17 January 1997). *G. Astron.* **23**, no. 1, 55–56.
- LEVY, D.H. (1997) In memoriam: Clyde Tombaugh. *Icarus* **127**, v.
- LEVY, D.H. (1997) Obituaries/Nécrologie—Clyde William Tombaugh (1906–1997): a remembrance. *Jour. Roy. Astron. Soc. Canada* **91**, 91.
- LEVY, D.H. (2003) Star Trails: Pluto’s new little cousin. *Sky and Tel.* **105**, no. 2, 90.
- LEVY, D.H. (2005) Clyde Tombaugh’s rich legacy. *Sky and Tel.* **109**, no. 6, 108–109.
- LEVY, D.H. (2006) Headed for Pluto and beyond. *Sky and Tel.* **111**, no. 5, 96.
- LEVY, D.H. (2006) What is a planet? *Sky and Tel.* **112**, no. 6, 110–111.
- LEVY, D.H. (2013) Clyde W. Tombaugh, discoverer of Pluto: a personal retrospective. *Bull. Amer. Astron. Soc.* **45**, 104.01 (Abstract).
- LEWIS, B.L., STANSBERRY, J., GRUNDY, W.M., SCHMITT, B., PROTOPAPA, S., TRAFTON, L.M., HOLLER, B.J., MCKINNON, W.B., SCHENK, P.M., STERN, S.A., YOUNG, L., WEAVER, H.A., OLKIN, C., AND ENNICO, K. (2017) Topographic and other influences on Pluto’s volatile ices. *Bull. Amer. Astron. Soc.* **49**, 215.02 (Abstract).
- LEWIS, B.L., STANSBERRY, J., GRUNDY, W.M., SCHMITT, B., PROTOPAPA, S., TRAFTON, L.M., HOLLER, B.J., MCKINNON, W.B., SCHENK, P.M., STERN, S.A., YOUNG, L., WEAVER, H.A., OLKIN, C. AND ENNICO, K. (2018) Topographic and other influences on Pluto’s volatile ices. *Bull. Amer. Astron. Soc.* **50**, no. 2, 144.03 (Abstract).
- LEWIS, B.L., STANSBERRY, J., HOLLER, B., GRUNDY, W., SCHMITT, B., PROTOPAPA, S., STERN, S.A., YOUNG, L., WEAVER, H., OLKIN, C., AND ENNICO, K. (2019) Distribution and energy balance of Pluto’s nitrogen ice, as seen by New Horizons in 2015. *Bull. Amer. Astron. Soc.* ??? (**233 AAAS Meeting**), 255.12 (Abstract).
- LEWIS, B.L., STANSBERRY, J.A., HOLLER, B.J., GRUNDY, W.M., SCHMITT, B., PROTOPAPA, S., LISSE, C., STERN, S.A., YOUNG, L., WEAVER, H.A., OLKIN, C., ENNICO, K., AND THE NEW HORIZONS SCIENCE TEAM. (2021) Distribution and energy balance of Pluto’s nitrogen ice, as seen by New Horizons in 2015. *Icarus* **356**, 113663.
- LEWIS, J.S. (1994) “Pluto and the icy satellites of the outer planets. Chapter 6.” In *Worlds apart: a textbook in planetary sciences* (San Diego, CA, Academic Press), 222–276.
- LEY, W. (1956) The demotion of Pluto. *Galaxy* **12**, no. 4 (August 1956), 79–91.
- LEY, W. (1962) For your information: Names in the sky. *Galaxy* **20**, no. 5 (June 1962), 38–50.
- LEY, W. (1964) For your information: Symbolically speaking. *Galaxy* **24**, no. 4 (April 1964), 57–67.
- LEY, W. (1965) For your information: Fifteen years of *Galaxy* — thirteen years of F.Y.I. *Galaxy* **24**, no. 1 (October 1965), 84–94.

- LEYRAT, C., LORENZ, R.D., AND LE GALL, A. (2016) Probing Pluto's underworld: predicted ice temperatures from microwave radiometry decoupled from surface conditions. *Bull. Amer. Astron. Soc.* **47**, no. 5, 210.07 (Abstract).
- LEYRAT, C. LE GALL, A., LORENZ, R., AND BOOMI, S. (2017) Predicted antenna temperatures measured by REX/New Horizons during the Pluto's *[sic]* flyby: probing the sub-surface in microwave. *Bull. Amer. Astron. Soc.* **49**, no. 5, 215.03 (Abstract).
- LI, J., XIA, Z.J., AND ZHOU, L. (2019) Calibration of the angular momenta of the minor planets in the solar system. *Astron. Astrophys.* **630**, A68.
- LIANG, M.-C., YEN, C.-C., AND TAAM, R. (2015) Mass loss from the atmosphere of Pluto. *Bull. Amer. Astron. Soc.* **47**, 210.23 (Abstract).
- LICANDRO, J., PINILLA-ALONSO, N., PEDANI, M., OLIVA, E., TOZZI, G.P., AND GRUNDY, W.M. (2006) The methane ice rich surface of large TNO 2005 FY₉: a Pluto-twin in the trans-neptunian belt? *Astron. Astrophys.Lett.* **445**, L35–L38.
- LICANDRO, J., GRUNDY, W.M., PINILLA-ALONSO, AND LEISY, P. (2006) Visible spectroscopy of 2003 UB₃₁₃: evidence for N₂ ice on the surface of the largest TNO? *Astron. Astrophys.Lett.* **458**, L5–L8.
- LIN, D.N.C. (1981) On the origin of the Pluto–Charon system. *Mon. Not. Roy. Astron. Soc.* **197**, 1081–1085.
- LINDBERG, CHRISTENSEN, L. (2007) The Pluto Affair: the good, the bad or the ugly? *EPSC Abstracts* **2**, 944 (Abstract).
- LINDBERG, CHRISTENSEN, L. (2007) “The Pluto Affair: when professionals talk to professionals with the public watching.” In *Proceedings of the Future Professional Communication in Astronomy, Colloquium held at the Palace of the Academies, 19-13 June, 2007.*, ed. André Heck and Léo Houziaux (Brussels, Belgium), pp. 221.
- LING, A. (1996) Observer's challenge: Can you spot Pluto's moon? *Astronomy* **24**, no. 5, 64.
- LING, A. (1996) Observer's challenge: Dog days of Pluto. *Astronomy* **24**, no. 7, 64.
- LING, A. (1997) Observer's challenge: Pluto's loyal opposition. *Astronomy* **25**, no. 5, 74.
- LINSCOTT, I.R., BIRD, M.K., HINSON, D.P., PÄTZOLD, M., AND TYLER, G.L. (2011) “The Radioscience Experiment on New Horizons.” Paper given at *General Assembly and Scientific Symposium, 2011 XXXth URSI*, (13–20 August 2011), Istanbul, Turkey1–4.
- LINSCOTT, I., HINSON, D.P., TYLER, G.L., AND VINCENT, M. (2014) The New Horizons Bistatic Radio Science Experiment to measure Pluto's surface properties. *AGU Fall Meeting Abstracts* **P33B**, 4034 (Abstract).
- LINSCOTT, I.R., STERN, S.A., WEAVER, H., YOUNG, L.A., OLKIN, C., AND ENNICO, K. (2015) First results from the New Horizons Radio Science Experiment: measurements of Pluto's atmospheric structure, surface pressure, and microwave brightness temperature. *Bull. Amer. Astron. Soc.* **47**, 101.03 (Abstract).
- LINSCOTT, I., PROTOPAPA, S., HINSON, D.P., BIRD, M., TYLER, G.L., GRUNDY, W.M., MCKINNON, W.B., OLKIN, C.B., STERN, S.A., STANSBERRY, J.A., WEAVER, H.A., AND THE PLUTO COMPOSITION TEAM, PLUTO GEOPHYSICS AND GEOLOGY TEAM, AND PLUTO ATMOSPHERES TEAM. (2016) The structure and temperature of Pluto's Sputnik Planum using 4.2 cm radiometry. *Bull. Amer. Astron. Soc.* **48**, no. 7, 107 (Abstract).
- LINSCOTT, I., BIRD, M., STERN, S.A., VINCENT, M., TYLER, L., EBOY, C., SEPAN, R., MCKINNON, W.B., YOUNG, L.A., PATZOLD, M., GLADSTONE, G.R., OLKIN, C.B., WEAVER, H.A., AND ENNICO, K. (2018) Radiometric polarization anomalies on Pluto's winter night. *Bull. Amer. Astron. Soc.* **50**, 502.08 (Abstract).
- LINSCOTT, I.R., BIRD, M.K., STERN, S.A., VINCENT, M.A., DEBOY, C.C., WEAVER, H.A., OLKIN, C.B., SPENCER, J.R., NEW HORIZONS PATM TEAM, NEW HORIZONS COMPOSITION TEAM, AND NEW HORIZONS GGI TEAM. (2019) REX radiometry at 4.2 cm during the New Horizons encounter of Ultima Thule. *Lunar & Planetary Sci.* **50**, 1996 (Abstract).

- LINSCOTT, I., ASMAR, S., BIRD, M., DEBOY, C., SEPAN, R., STERN, A., VINCENT, M., OUDRHIRI, K., PAETZOLD, M., ANDERT, T., HINSON, D.P., TYLER, G.L., WEAVER, JR., H.A., YOUNG, L.A., GRUNDY, W.M., OLKIN, C., AND ENNICO SMITH, K. (2019) Pluto's surface properties from the New Horizons Uplink Bistatic Radar Experiment. *AGU Fall Meeting Abstracts* **P34A**, 01 (Abstract).
- LINSCOTT, I., BIRD, M., TYLER, L., PATZOLD, M., STERN, A., WEAVER, H., YOUNG, L., OLKIN, C., MOORE, J., GRUNDY, W., DEBOY, C., SEPAN, R., VINCENT, M., BOWMAN, A., AND OUDRHIRI, K. (2019) New Horizons REX Radiometry at 2014 MU69. *ESPC–DPS Joint Meeting* **13**, 973L (Abstract).
- LINSCOTT, I.R., BIRD, M.K., HINSON, D.P., TYLER, G.L., STERN, S.A., VINCENT, M.A., DEBOY, C.C., YOUNG, L.A., BEYER, R.A., ENNICO, K., MOORE, J.M., GLADSTONE, G.R., OLKIN, C.B., PÄTZOLD, M., SCHENK, P.M., STROBEL, D.F., SUMMERS, M.E., WEAVER, H.A., GRUNDY, W.M., AND THE NEW HORIZONS SCIENCE TEAM. (2021) High-resolution radiometry of Pluto at 4.2 cm with New Horizons. *Icarus* **363**, 11430.
- LINSKY, J.L. (2011) Astronomy: Voyagers of discovery. *Science* **334**, 1647–1648.
- LIPINSKI, R.J. (2003) NEP missions to Pluto. *AIP Conference Proceedings* **608**, 645–651.
- LIPATOV, A.S., SAUER, K., AND BAUMGÄRTEL, K. (1997) 2.5D hybrid code simulation of the solar wind interaction with weak comets and related objects. *Adv. Spa. Res.* **20**, 279–282.
- LIPPMANN, G. (1905) Les progrès de l'astronomie. *L'Astronomie* **18**, 219.
- LISSAUER, J.J. AND SAFRAVNOV, V.S. (1991) The random component of planetary rotation. *Icarus* **93**, 288–297.
- LISSAUER, J.J. (2006) Growing apart in lock step. *Science* **313**, 1054–1055.
- LISSE, C.M., MCNUTT, R.L., STERN, A.S., CRAVEN, T.E., HILL, M.E., STROBEL, D.F., ZHU, X., ELLIOTT, H.A., CHUTJIAN, A., WEAVER, H.A., MCCOMAS, D.J., WOLK, S.J., AND YOUNG, L.A. (2015) Limits on Pluto's atmospheric escape rate from charge exchange X-rays. *Lunar & Planetary Sci.* **46**, 2991 (Abstract).
- LISSE, C.M., NIMMO, F., MCKINNON, W.B., UMURHAN, O.M., BUIE, M.W., LAUER, T.R., ROBERTS, J.H., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO-SMITH, K., AND OLKIN, C.B. (2015) The radii and oblateness of Pluto and Charon: preliminary results from the 2015 New Horizons flyby. *Bull. Amer. Astron. Soc.* **47**, 210.05 (Abstract).
- LISSE, C.M., MCNUTT, R.L., BAGENAL, F., STERN, S.A., CRAVENS, T.E., HILL, M.E., KOLLMANN, P., STROBEL, D.E., ELLIOTT, H.A., MCCOMAS, D.J., CHUTJIAN, A., WEAVER, H.A., WOLK, S.J., AND YOUNG, L.A. (2016) The puzzling detection of Pluto in the X-ray by Chandra. *Lunar & Planetary Sci.* **47**, 2449 (Abstract).
- LISSE, C.M., MCNUTT, R.L., WOLK, S.J., BAGENAL, F., STERN, S.A., GLADSTONE, B.R., CRAVENS, T.E., HILL, M.E., KOLLMANN, P., STROBEL, D.E., ELLIOTT, H.A., MCCOMAS, D.J., BINZEL, R.P., SNIOS, B.T., BHARDWAJ, A., CHUTJIAN, A., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K.A. (2017) The puzzling detection of x-rays from Pluto by Chandra. *Icarus* **287**, 103–109.
- LISSE, C.M., BENICCHI, S.D., BINZEL, R., SCHWAMB, M.E., AND THE NEW HORIZONS SCIENCE TEAM. (2016) Kepler K2 precision lightcurve observations of Pluto: preliminary results. *Bull. Amer. Astron. Soc.* **48**, no. 7, 106 (Abstract).
- LISSE, C.M., BENECCHI, S.D., RYAN, E.L., BINZEL, R.P., SCHWAMB, M.E., VERBISCHER, A.J., AND BURATTI, B.J. (2017) Kepler K2 precision lightcurve observations of Pluto: preliminary results. *Lunar & Planetary Sci.* **48**, 2698 (Abstract).
- LISSE, C., STERN, A., BENECCHI, S., BINZEL, R.P., BRANDT, P., BURATTI, B.J., CHENG, A., CRUIKSHANK, D.P., HORANYI, M., MCKINNON, W.B., MCNUTT, R., MOORE, J.M., OLKIN, C., PARKER, A., PARKER, J., POPPE, A., RUNYON, K.D., SPENCER, J., SUMMERS, M.E., UMURHAN, O., VERBISCHER, A., WEAVER, H., AND YOUNG, L.A. (2018) Ultimate Thule [*sic*] vs Comets vs Pluto: placing New Horizons' next flyby target in a solar system & exosystem context.. *Bull. Amer. Astron. Soc.* **50**, 410.10 (Abstract).

- LISSE, C.M., YOUNG, L.A., CRUIKSHANK, D.P., STERN, S.A., KEANE, J.T., UMURHAN, O.M., GLADSTONE, G.R., PARKER, J.W., BINZEL, R.P., EARLE, A.M., PENDLETON, Y.J., SANDFORD, S.A., HORANYI, M., WEAVER, H.A., CHENG, A.F., MCNUTT, R.L., EL-MAARRY, M.R., MOORE, J.M., LINSKOTT, I.R., SCHMITT, B., KAVELAARS, J.J., BRITT, D.T., AND OLKIN, C.B. (2019) *Pluto's hypervolatile surface ices sourced from KBO amorphous water ice composites. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7037 (Abstract).*
- LISSE, C.M., SINGER, K.N., FERNANDEZ, Y.R., BAUER, J.M., PROTOPAPA, S., CHENG, A.F., WEAVER, H.A., MCKINNON, W.B., KAEVELARS, J.J., STERN, S.A., SPENCER, J.R., OLKIN, C.B., PARKER, J.W., MOORE, J.M., UMURHAN, O.M., GRUNDY, W.M., YOUNG, L.A., VERBISCHER, A., AND NEW HORIZONS GGI TEAM. (2019) *Comets sourced by KBOs — comparison of SFDs derived from Spitzer/Wise JFC imaging and Pluto and Charon KBO cratering rates. Lunar & Planetary Sci. 50, 2865 (Abstract).*
- LISSE, C.M., YOUNG, L.A., CRUIKSHANK, D.P., SANDFORD, S.A., STERN, A., WEAVER, H.A., JR., UMURHAN, O.M., PENDLETON, Y.J., KEANE, J.T., GLADSTONE, R., PARKER, J.W., BINZEL, R.P., EARLE, A.M., HORANYI, M., ELMAARRY, M.R., CHENG, A.F., MCNUTT, JR., R.L., MOORE, J., GRUNDY, W.M., SCHMITT, B., KAVELAARS, J.J., LINSKOTT, I., BRITT, D.T., SPENCER, J.R., OLKIN, C., AND ELLIOTT, H.A. (2019) *On the stability & origin of MU₆₉'s and Pluto's ices. AGU Fall Meeting Abstracts P331, 3540 (Abstract).*
- LISSE, C. (2019) *Pluto's hypervolatile surface ices sourced From KBO amorphous water ice composites. ESPC–DPS Joint Meeting 13, 1114L (Abstract).*
- LISSE, C.M., YOUNG, L., CRUIKSHANK, D., SANDFORD, S., SCHMITT, B., STERN, S.A., WEAVER, H.A., UMURHAN, O., PENDLETON, Y., KEANE, J., GLADSTONE, R., PARKER, J., BINZEL, R., EARLE, A., HORANYI, M., EL-MAARRY, M., CHENG, A., MOORE, J., MCKINNON, W., GRUNDY, W., AND KAVELAARS, J. (2020) *Ices in KBO MU₆₉ and Pluto — implications for their formation & evolution. Bull. Amer. Astron. Soc. 52, no. 1, 438.04 (Abstract).*
- LISSE, C.M., YOUNG, L.A., CRUIKSHANK, D.P., STERN, S.A., KEANE, J.T., UMURHAN, O.M., GLADSTONE, G.R., PARKER, J.W., BINZEL, R.P., EARLE, A.M., PENDLETON, Y.P., SANDFORD, S.A., HORANYI, M., WEAVER, H.A., CHENG, A.F., MCNUTT, R.L., EL-MAARRY, M., MOORE, J.M., LINSKOTT, I., SCHMITT, B., LYRA, W., LEWIS, B.L., BRITT, D.T., SPENCER, J.R., OLKIN, C.B., ELLIOTT, H.A., DELLO-RUSSO, N., STECKLOFF, J.K., NEVEU, M., AND MOUSIS, O. (2020) *On the origin and stability of Pluto's and MU₆₉'s ices. Lunar & Planetary Sci. 51, 1972 (Abstract).*
- LISSE, C.M., YOUNG, L.A., CRUIKSHANK, D.P., SANDFORD, S.A., SCHMITT, B., STERN, S.A., WEAVER, H.A., UMURHAN, O., PENDLETON, Y.J., KEANE, J.T., GLADSTONE, G.R., PARKER, J.M., BINZEL, R.P., EARLE, A.M., HORANYI, M., EL-MAARRY, M.R., CHENG, A.F., MOORE, J.M., MCKINNON, W.B., GRUNDY, W.M., KAVELAARS, J.J., LINSKOTT, I.R., LYRA, W., LEWIS, B.L., BRITT, D.T., SPENCER, J.R., OLKIN, C.B., MCNUTT, R.L., ELLIOTT, H.A., DELLO-RUSSO, N., STECKLOFF, J.K., NEVEU, M., AND MOUSIS, O. (2021) *On the origin & thermal stability of Arrokoth's and Pluto's ices. Icarus 356, 114072.*
- LISSE, C.M., YOUNG, L.A., CRUIKSHANK, D.P., SANDFORD, S.A., SCHMITT, B., STERN, S.A., WEAVER, H.A., UMURHAN, O., PENDLETON, Y.J., KEANE, J.T., GLADSTONE, G.R., PARKER, J.M., BINZEL, R.P., EL-MAARRY, M., CHENG, A.F., MOORE, J.M., MCKINNON, W.M., GRUNDY, W.M., KAVELAARS, J.J., AND LINSKOTT, I.R. (2021) *On the origin and thermal stability of Arrokoth's and Pluto's ices. Lunar & Planetary Sci. 52, 2187 (Abstract).*
- LISSE, C.M., ZEMCOV, M., MANDT, K., RUNYON, K., AHRENS, C., BEICHMAN, C., BOCK, J., BRANDT, P., COCOROS, A., DRAINE, B., HARMAN, C.E., HORANYI, M., IZENBERG, N., LALLEMENT, R., LEVESSEUR-REGOURD, A.C., MCNUTT, R., POPPE, A.R., PAUL, M., STERKEN, V., AND SZALAY, J. (2021) *Instrumentation for producing groundbreaking planetary & astrophysical science on an interstellar probe mission. Planetary Science and Astrobiology Decadal Survey 2023-2032 white paper; Bull. Amer. Astron. Soc. 53, no. 4, e-id. 248.*

- LISSE, C.M., GLADSTONE, G.R., YOUNG, L.A., CRUIKSHANK, D.P., SANDFORD, S.A., SCHMITT, B., STERN, S.A., WEAVER, H.A., UMURHAN, O., PENDLETON, Y.J., KEANE, J.T., PARKER, J.M., BINZEL, R.P., EARLE, A.M., HORANYI, M., EL-MAARRY, M., CHENG, A.F., MOORE, J.M., MCKINNON, W.B., GRUNDY, W.M., KAVELAARS, J.J., LINSOTT, I.R., LYRA, W., LEWIS, B.L., BRITT, D.T., SPENCER, J.R., OLKIN, C.B., MCNUTT, R.L., ELLIOTT, H.A., DELLO-RUSSO, N., STECKLOFF, J.K., NEVEU, M., AND MOUSIS, O. (2022) *A predicted dearth of majority hypervolatile ices in Oort Cloud comets. Planetary Sci. Jour.* **3**, no. 5, 112.
- LISTER, T., GREENSTREET, S., GOMEZ, E., CHRISTENSEN, E., AND LARSON, S. (2015) *The Las Cumbres Observatory (LCOGT) Network for NEO and solar system science. Bull. Amer. Astron. Soc.* **47**, 308.16 (Abstract).
- LISTER, T., GREENSTREET, S., GOMEZ, E., CHRISTENSEN, E.J., AND LARSON, S.M. (2016) *The Las Cumbres Observatory (LCOGT) Network for NEO and Solar System Science. AAS Meeting* **227**, 430.03 (Abstract).
- LITHWICK, Y. AND WU, Y. (2007) *On the origin of Pluto's minor moons, Nix and Hydra. Bull. Amer. Astron. Soc.* **38**, 307–308 (Abstract).
- LITHWICK, Y. AND WU, Y. (2008) *On the origin of Pluto's minor moons, Nix and Hydra. Submitted to Astrophys. Jour.*
- LITHWICK, Y. AND WU, Y. (2008) *The effect of Charon's tidal damping on the orbits of Pluto's three moons. Submitted to Astrophys. Jour.*
- LITTMANN, M. (1988) *Planets beyond: discovering the outer solar system* (New York, NY, Wiley), 286 pp.
- LITTMANN, M. (2007) *Dark beasts of the trans-Neptunian zoo. Sky and Tel.* **114**, no. 5, 26–29.
- LIVI, S.A., MCNUTT, R., ANDREWS, G.B., KEATH, E., MITCHELL, D., HO, G. (2003) *The Energetic Particles Spectrometers (EPS) on MESSENGER and New Horizons. SOLAR WIND TEN: Proceedings of the Tenth International Solar Wind Conference. AIP Conference Proceedings* **679**, 838–841.
- LIVINGSTON, A. (2003) *Driving to Pluto. Sky and Tel.* **106**, no. 2, 10.
- LOBKOVA, N.I. (1975) *Method for developing an analytic theory for the motion of Pluto. Pis'ma Astron. Zhurnal* **1**, 39–40 (Abstract).
- LOBKOVA, N.I. (1977) *Secular and long-period perturbations of Pluto by Neptune. Astronomiya Vyp.* **12**, 136–150.
- LOBKOVA, N.I. (1975) *A method for developing an analytic theory for the motion of Pluto. Sov. Astron. Lett.* **1**, 210–211.
- LOCHNER, J.C., KEENE, J., BLEACHER, L., LEVINE, D., AND HUFNAGEL, B. (2019) *Ten years of a community planet walk event. Bull. Amer. Astron. Soc. ??? (233 AAS Meeting)*, 337.08 (Abstract).
- LOCKHART, M., PERSON, M.J., ELLIOT, J.L., AND SOUZA, S.P. (2010) *PICO: Portable Instrument for Capturing Occultations. Pub. Astron. Soc. Pacific* **122**, 1207–1213.
- LODDERS, K. (1999) *Are some types of carbonaceous chondritic meteorites samples of Kuiper Belt Objects? Pluto and Triton: comparisons and evolution over time, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).*
- LOEB, H.W. AND POPOV, G.A. (1995) *A nuclear-electric propulsion module for advanced solar system exploration programs. Acta Astronautica* **37**, 153–166.
- LOHAR, F.A., MISRA, A.K., AND MATEESCU, D. (1995) *“Aero-gravity assist for high-energy missions.” Paper given at 33rd Aerospace Sciences Meeting, Reno, NV, p. 16–21.*
- LOHAR, F.A., MISRA, A.K., AND MATEESCU, D. (1997) *Mars–Jupiter aerogravity assist trajectories for high-energy missions. Jour. Spacecraft and Rockets* **34**, 16–21.
- LOHINGER, E. (1997) *“A study of the local Lyapunov numbers for orbits in the outer solar system.” In Fourth Alexander von Humboldt Colloquium on celestial mechanics: the dynamical behaviour of our solar system. (Dordrecht, Kluwer Academic Publishers), 385–392.*

- LONG, J.E. (1970) "Exploration of the outer planets." Paper given at 7th Annual AIAA Meeting, Houston, TX.
- LONG, J.E. (1971) "A Grand Tour of the outer planets." Paper given at Proceedings of the 22nd United States International Astronautical Federation, International Astronautical Conference, Brussels, Belgium, September 20–25.
- LONGUSKI, J.M. AND WILLIAMS, S.N. (1991) The last grand tour opportunity to Pluto. *Jour. Astronautical Sci.* **39**, no. 3, 359–365.
- LONGUSKI, J.M. AND WILLIAMS, S.N. (1991) Automated design of gravity-assist trajectories to Mars and the outer planets. *Cel. Mech. Dyn. Astr.* **52**, 207–220.
- LÓPEZ, C.E., SANGUIN, J.G., AND CESCO, M.R. (1989) Photographic positions of bright minor planets and Pluto. *Rev. Mex. Astron. Astrofís.* **17**, 37–38.
- LOPES, R. (2022) Cryovolcanism in the solar system. 44th COSPAR Scientific Assembly Held 16–24 July, 2022, Athens, Greece, B5.1-0012-22, (Abstract).
- LOPRESTO, M.C. (2006) A first glimpse of student attitudes about Pluto's demotion. *Astron. Ed. Rev.* **5**, no. 2, 245–247.
- LORENZ, R. (1996) All aboard the Pluto Express. *New Scientist* **150**, no. 203134–37.
- LORENZI, V., PINILLA-ALONZO, N., EMERY, J.P., LICANDRO, J., CRUIKSHANK, D.P., GRUNDY, W., AND BINZEL, R.P. (2015) The visible spectrum of Pluto: secular and longitudinal variation. *Bull. Amer. Astron. Soc.* **47**, 210.08 (Abstract).
- LORENZI, V., PINILLA-ALONSO, N., LICANDRO, J., CRUIKSHANK, D.P., GRUNDY, W.M., BINZEL, R.P., AND EMERY, J.P. (2015) The spectrum of Pluto, 0.40 – 0.93 μm I. Secular and longitudinal distribution of ices and complex organics. *Astron. Astrophys.* **585**, A131.
- LORENZI, V., PINILLA-ALONSO, N., LICANDRO, J., CRUIKSHANK, D.P., GRUNDY, W.M., BINZEL, R.P., AND EMERY, J.P. (2017) Follow-up of the degree of variation of Pluto's surface from ground-based telescope. *Asteroids, Comets, and Meteorites 2017*, 551 (Abstract).
- LOVI, G. (1976) Rambling through February skies. *Sky and Tel.* **51**, 108–110.
- LOVI, G. (1990) A "far out" planet. *Sky and Tel.* **79**, 295–296.
- LOWELL, P. (1913) The origin of the planets. *Memoirs of the American Academy of Arts and Sciences* **14**, No. 1.
- LOWELL, P. (1915) Memoir on a trans-Neptunian planet. *Mem. Lowell Obs.* **1**, No. 1.
- LOWELL STAFF AND MILLER, J.A. (1930) Trans-Neptunian planet. *Harvard College Observatory Announcement Card* **121**, April 14.
- LOWELL, A.L. (1935) *Biography of Percival Lowell* (New York, MacMillan), 234 pp.
- LUIZ, A.A. AND HAMILTON, D.P. (2015) Stability of coorbital objects around the Pluto–Charon binary. *Bull. Amer. Astron. Soc.* **47**, 102.11 (Abstract).
- LUND, M.B. (2015) Beyond the New Horizon. *Acta Prima Aprilia* **1**, April 2015, ???.
- LUNDIN, R. AND BARABASH, S. (1993) Plasma and neutral interactions in the outer solar system: Pluto and Charon. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- LUNINE, J.I., ATREYA, S.K., AND POLLACK, J.B. (1989) "Present state and chemical evolution of the atmospheres of Titan, Triton, and Pluto." In *Origin and evolution of planetary and satellite atmospheres*, S.K. Atreya and M.S. Matthews, eds. (Tucson: Univ. Arizona Press), pp. 605–665.
- LUNINE, J.I., AND YELLE, R.V. (1989) Cosmochemical inferences concerning the identity of the heavier gas in Pluto's atmosphere. *Eos* **70**, 382 (Abstract).
- LUNINE, J.I. (1989) Origin and evolution of outer solar system atmospheres. *Science* **245**, 141–147.
- LUNINE, J.I. (1989) The Urey Prize Lecture: Volatile processes in the outer solar system. *Icarus* **81**, 1–13.

- LUNINE, J.I. (1989) *Volatile processes in the outer solar system. Reports of the Planetary Geology and Geophysics Program—1989 NASA Technical Memorandum 4130*, 60–62 (Abstract).
- LUNINE, J.I. (1992) A massive early atmosphere on Triton. *Icarus* **100**, 221–234.
- LUNINE, J.I., HUBBARD, W.B., STANSBERRY, J.A., AND YELLE, R.V. (1993) *Plutonian cosmogony from the stellar occultation: bigger is better. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- LUNINE, J.I. AND TITTEMORE, W.C. (1993) “Origins of outer planet satellites.” In *Protostars and planets III*, E.H. Levy, J.I. Lunine, M. Guerreri, and M.S. Matthews, eds. (Tucson: Univ. Arizona Press), pp. 1149–1176.
- LUNINE, J.I. AND NOLAN, M.C. (1993) Volatile loss from an early massive atmosphere on Pluto. *Bull. Amer. Astron. Soc.* **25**, 1131–1132 (Abstract).
- LUNINE, J.I. (1993) Triton, Pluto, and the origin of the solar system. *Science* **261**, 697–698 (Abstract).
- LUNINE, J.I. (1993) Pressure-cooking Triton. *Nature* **369**, 21–22 (Abstract).
- LUNINE, J.I. (1994) “Solar system formation and the distribution of volatile species.” Paper given at *Conference on deep Earth and planetary volatiles*, pp. 30–31.
- LUNINE, J.I. AND TITTEMORE, W.C. (1993) “Origins of outer planet satellites.” In *Protostars and Planets III*, E.H. Levy, J.I. Lunine, M. Guerreri, and M.S. Matthews, eds. (Tucson: Univ. Arizona Press), pp. 1149–1176.
- LUNINE, J.I. (1996) *Physics and chemistry of the surface-atmosphere systems of Titan Triton and Pluto. European Research Course on Atmospheres, Grenoble, France. Physics and Chemistry of the Atmospheres of the Earth and Other Objects of the Solar System. Volume 2*, 457.
- LUNINE, J.I. (1997) *Physics and chemistry of the solar nebula. Origins of life and the evolution of the biosphere* **27**, 205–224.
- LUNINE, J.I. (1997) *Processing of material in the solar nebula. Stardust to planetesimals, A.S.P. Conference Series* **122**, 271–279.
- LUNINE, J.I. (2020) *The impact of solar system exploration on our understanding of exoplanetary systems. Bull. Amer. Astron. Soc.* **52**, no. 1, 356.03 (Abstract).
- LUO, Z.F. (2020) *The role of the mass ratio in ballistic capture. Mon. Not. Roy. Astron. Soc.* **498**, no. 1, 1515–1529.
- LUPO, M.J. AND LEWIS, J.S. (1979) *Mass–radius relationships and constraints in the composition of Pluto. Bull. Amer. Astron. Soc.* **11**, 570 (Abstract).
- LUPO, M.J. AND LEWIS, J.S. (1980) *Mass–radius relationships and constraints on the composition of Pluto. Icarus* **42**, 29–34.
- LUPO, M.J. AND LEWIS, J.S. (1980) *Mass–radius relationships and constraints on the composition of Pluto, II. Icarus* **44**, 41–42.
- LUSPAY-KUTI, A., MANDT, K.E., AND MOUSIS, O. (2015) *Photodissociative fractionation of Nitrogen isotopes in the atmospheres of Mars, Titan, and Pluto. Lunar & Planetary Sci.* **46**, 2785 (Abstract).
- LUSPAY-KUTI, A., MANDT, K.E., JESSUP, K., HUE, V., KAMMER, J.A., AND FILWETT, R. (2017) *The role of aerosols in Pluto’s C₂ hydrocarbon photochemistry. Lunar & Planetary Sci.* **48**, 1458 (Abstract).
- LUSPAY-KUTI, A., MANDT, K., JESSUP, K., KAMMER, J., HUE, V., HAMEL, M., AND FILWETT, R. (2017) *Photochemistry on Pluto: part I hydrocarbons and aerosols. Mon. Not. Roy. Astron. Soc.* **472**, no. 1, 104–117.
- LUU, J.X. AND JEWITT, D.C. (1996) *The Kuiper Belt. Sci. Amer.* **274**, no. 5, 46–52.
- LUU, J.X. AND JEWITT, D.C. (1996) “The origin of Pluto.” In *A.S.P. Conference Proceedings 107, Completing the Inventory of the Solar System* (T.W. Rettig and J.M. Hahn, eds.), 163–170.
- LUU, J.X. AND JEWITT, D.C. (1996) “The Plutinos.” In *A.S.P. Conference Proceedings 107, Completing the Inventory of the Solar System* (T.W. Rettig and J.M. Hahn, eds.), 245–254.

- LUTZ, B.L. (1991) *Outer planet studies. Reports of Planetary Astronomy—NASA Technical Memorandum 4329*, 79–80 (Abstract).
- LUU, J.X. AND JEWITT, D.C. (1996) “The Plutinos.” In *A.S.P. Conference Proceedings 107, Completing the Inventory of the Solar System* (T.W. Rettig and J.M. Hahn, eds.), 163–170.
- LUYTEN, W.J. (1956) *Pluto not a planet?* *Science* **123**, 896–897 (Letter to editor).
- LUZADER, W. (1989) *Clyde Tombaugh and the discovery of Pluto.* *The Physics Teacher* **27**, no. 4, 304.
- LYKAWKA, P.S. AND MUKAI, T. (2007) *A distant massive planet beyond Pluto and origin of Kuiper Belt architecture.* *Bull. Amer. Astron. Soc.* **39**, 1042 (Abstract).
- LYKAWKA, P.S. AND MUKAI, T. (2008) *An outer planet beyond Pluto and the origin of the Kuiper Belt architecture.* *EPSC Abstracts* **2**, 847 (Abstract).
- LYKAWKA, P.S. AND MUKAI, T. (2008) *An outer planet beyond Pluto and the origin of the trans-Neptunian belt architecture.* *Astron. Jour.* **135**, 1161–1200.
- LYKAWKA, P.S. AND MUKAI, T. (2009) “*Trans-Neptunian region architecture: evidence for a planet beyond Pluto.*” In *Advances in Geosciences, Volume 15: Planetary Science* (A. Bhardwaj, ed., Singapore, World Scientific), 293.
- LYNN, W.T. (1887) *Correspondence. To the Editors of ‘The Observatory.’ Suggested Mean Distances of Ultra-Neptunian Planets.* *The Observatory* **10**, 318.
- LYRA, W., YODIN, A.N., AND JOHANSEN, A. (2021) *Evolution of MU69 from a binary planetesimal into contact by Kozai-Lidov oscillations and nebular drag.* *Icarus* **356**, 113831.
- LYRA, W. (2020) *Evolution of Arrokoth from a binary planetesimal into contact by Kozai-Lidov oscillations and nebular drag.* *Bull. Amer. Astron. Soc.* **52**, no. 6, 508.04 (Abstract).
- LYRA, W., YODIN, A.N., AND JOHANSEN, A. (2021) *Evolution of MU₆₉ from a binary planetesimal into contact by Kozai-Lidov oscillations and nebular drag.* *Icarus* **356**, 113831.
- LYTTLETON, R.A. (1936) *On the possible results of an encounter of Pluto with the neptunian system.* *Mon. Not. Roy. Astron. Soc.* **97**, 108–115.
- LYTTLETON, R.A. (1940) *Triton and Pluto: on the peculiarities of the motions of Pluto and the satellite of Neptune.* *The Sky* **4**, 5–6.
- LYTTLETON, R.A. (1958) “*The rediscovery of Neptune.*” In *Vistas in Astronomy, Vol. 3* (London), 25–26.
- LYUTYĬ, V.M. AND TARASHCHUK, V.P. (1982) *A photometric study of Pluto near perihelion. I. U,B,V photometry.* *Pis'ma v Astronomicheskii Zhurnal* **10**, 226–229.
- LYUTYĬ, V.M. AND TARASHCHUK, V.P. (1982) *A photometric study of Pluto near perihelion. I. U,B,V photometry.* *Pis'ma v Astronomicheskii Zhurnal* **8**, 56.
- LYUTYĬ, V.M. AND TARASHCHUK, V.P. (1982) *A photometric study of Pluto near perihelion. I. U,B,V photometry.* *Sov. Astron. Lett.* **8**, 56–59.
- LYUTYĬ, V.M. AND TARASHCHUK, V.P. (1984) *A photometric study of Pluto near perihelion II. Rotation period and color indices.* *Sov. Astron. Lett.* **10**, 226–229.
- MACCONE, C. (1998) *Proposals arising from the I.A.A. 1996 Turin Symposium on Missions to the Outer Solar System and Beyond.* *Acta Astron.* **43**, 455–462.
- MACROBERT, A.M. (1985) *Pluto flies by two stars.* *Sky and Tel.* **69**, 341–342.
- MACROBERT, A.M. (1992) *An occultation by Pluto.* *Sky and Tel.* **83**, 545–546.
- MACROBERT, A.M. (1995) *Finding Uranus, Neptune, and Pluto.* *Sky and Tel.* **89**, no. 4, 70–71.
- MACROBERT, A.M. (1997) *Finding Uranus, Neptune, and Pluto.* *Sky and Tel.* **93**, no. 5, 84.
- MACROBERT, A.M. (1998) *Uranus, Neptune, and Pluto this year.* *Sky and Tel.* **95**, no. 5, 96–97.
- MACROBERT, A.M. (2008) *Pluto’s slow departure.* *Sky and Tel.* **115**, no. 6, 67.

- MADDOCK, R.W. AND SIMS, J. (1998) "Trajectory options for Ice and Fire Preproject missions utilizing solar electric propulsion." Paper given at AIAA/AAS Astrodynamics Specialist Conference, Boston, MA, 127–134.
- MADDOCK, R.W., CLARK, K.B., HENRY, C.A., AND HOFFMAN, P.J. (1999) *The Outer Planets/Solar Probe Project: "Between an ocean, a rock, and a hot place"*. Proceedings of the 1999 IEEE Aerospace Conference 1, 383–402.
- MADDOX, B. AND VERONSKY, F. (1996) *Space invade it!* Spy Magazine **10**, no. 7, 50–54.
- MADEY, T.E., JOHNSON, R.E., AND ORLANDO, T.M. (2002) Far-out surface science: radiation-induced surface processes in the solar system. *Surface Sci.* **500**, 838–858.
- MAHJOUR, A., BROWN, M.E., POSTON, M.J., HODYSS, R., EHLMANN, B.L., BLACKSBERG, J., CHOUKROUN, M., EILER, J.M., AND HAND, K.P. (2021) Effect of H₂S on the near-infrared spectrum of irradiation residue and applications to the Kuiper Belt Object (486958) Arrokoth. *Astrophys. Jour.Lett.* **914**, no. 2, L31.
- MALAKOFF, D. (2001) U.S. science budget: for all but NIH, the devil is in the details. *Science* **292**, 182–183.
- MALAMUD, U. AND PRIALNIK, D. (2015) Modeling Kuiper belt objects Charon, Orcus and Salacia by means of a new equation of state for porous icy bodies. *Icarus* **246**, 21–36.
- MALAMUD, U., PERETS, H.B., AND SCHUBERT, G.R. (2016) The contraction/expansion history of Charon with implication for its planetary scale tectonic belt. *Mon. Not. Roy. Astron. Soc.* **246**, 1056–1069.
- MALCOMSON, H., JASNY, B., ZAHN, L., AND SUTER, S. (2010) The case for Pluto: how a little planet made a big difference. by A. Boyle (Book review.) *Science* **330**, no. 6010, 1480.
- MALCUIT, R.J., MEHRINGER, D.M., AND WINTERS, R.R. (1991) Numerical simulation of retrograde tidal capture of a Triton-like planetoid by a Neptune-like planet. *Lunar & Planetary Sci.* **22**, 845 (Abstract).
- MALCOMSON, H., SUTER, S., AND JASNY, B. (2007) Book Review: *Is Pluto a planet? A historical journey through the solar system.* (D.A. Weintraub, Princeton Univ. Press, Princeton, NJ, 2007) 266 pp. \$27.95. *Science* **318**, 1552–1554.
- MALESZEWSKI, C. (2009) *Properties of Pluto's surface as determined by optical methane absorption bands.* M.S. thesis, Northern Arizona University, Flagstaff, AZ.
- MALEY, P. (1983) No occultations by Uranus II and Pluto. IAU Circular No. 3790, 2.
- MALHOTRA, R. AND WILLIAMS, J. (1993) Pluto's heliocentric motion. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- MALHOTRA, R. (1993) On the capture of Pluto into the 3:2 Neptune resonance. *Bull. Amer. Astron. Soc.* **25**, 1137–1138 (Abstract).
- MALHOTRA, R. (1993) The origin of Pluto's peculiar orbit. *Nature* **365**, 819–821.
- MALHOTRA, R. (1994) The origin of Pluto's peculiar orbit: implications for the "Kuiper Belt." *Bull. Amer. Astron. Soc.* **26**, 1126–1127 (Abstract).
- MALHOTRA, R. (1995) The origin of Pluto's peculiar orbit. *Lunar & Planetary Sci.* **26**, 887–888 (Abstract).
- MALHOTRA, R. (1995) The origin of Pluto's orbit: implications for the solar system beyond Neptune. *Astron. Jour.* **110**, 420–429.
- MALHOTRA, R. (1996) The phase space structure near Neptune resonances in the Kuiper Belt. *Astron. Jour.* **111**, 504–516.
- MALHOTRA, R. (1996) The fate of Neptune planetesimals. *Lunar & Planetary Sci.* **27**, 801 (Abstract).
- MALHOTRA, R. (1996) Implications of the Edgeworth–Kuiper Belt structure for the solar system. *Bull. Amer. Astron. Soc.* **28**, 1082 (Abstract).
- MALHOTRA, R. (1998) Pluto's inclination excitation by resonance capturing. *Lunar & Planetary Sci.* **29**, 1476 (Abstract).
- MALHOTRA, R. (1999) Migrating planets. *Sci. Amer.* **281**, no. 3, 56–63.

- MALHOTRA, R. (2019) Resonant Kuiper belt objects: a review. *Geoscience Lett.* **6**, no. 1, 12.
- MALHOTRA, R. AND ITO, T. (2022) Pluto near the edge of chaos. *Pub. Nat. Acad. Sci.* **119**, no. 15, e2118692119.
- MALIN, M.C. (1993) “Visible imaging on the Pluto Fast Flyby mission.” In *Workshop on Advanced Technologies for Planetary Instruments, Part 1* (Lunar & Planetary Institute, Houston, TX), 16.
- MALLOVE, E.F. (1989) The solar system in chaos. *Planetary Report* **9**, no. 3, 4–7.
- MALTAGLIATI, L. (2017) Planetary science: Penitent Pluto. *Nature Astronomy* **1**, 0016.
- MALTAGLIATI, L. (2017) Correction: Planetary science: Penitent Pluto. *Nature Astronomy* **1**, 0038.
- MAMAJEK, E.E., RAPSON, V.A., CAMERON, D.A., OLMEDO, M., FOGERTY, S., FRANKLIN, E., LAMBRIDES, E., HASAN, I., SARKIS, R.E., THORNDIKE, S., AND NORDHAUS, J. (2015) Proposed nomenclature for surface features on Pluto and its satellites and names for newly discovered satellites. Submitted to *Mon. Not. Roy. Astron. Soc.*
- MANDT, K. AND MOUSIS, O. (2014) Upper limits to the fractionation of isotopes due to atmospheric escape: Implications for potential $^{14}\text{N}/^{15}\text{N}$ in Pluto’s atmosphere. *AGU Fall Meeting Abstracts* **P33D**, 4052 (Abstract).
- MANDT, K.E., MOUSIS, O., AND LUSPAY-KUTI, A. (2016) Isotopic constraints on the source of Pluto’s nitrogen and the history of atmospheric escape. *Planetary and Spa. Sci.* **130**, 104–109.
- MANDT, K., LUSPAY-KUTI, A., AND MOUSIS, O. (2016) The evolution of nitrogen in the atmospheres of Pluto, Titan and Triton. *Bull. Amer. Astron. Soc.* **48**, no. 7, 146 (Abstract).
- MANDT, K., LUSPAY-KUTI, A., HAMEL, M., JESSUP, K., HUE, V., KAMMER, J., AND FILWETT, R. (2017) Photochemistry on Pluto: part II HCN and nitrogen isotope fractionation. *Mon. Not. Roy. Astron. Soc.* **472**, no. 1, 118–128.
- MANDT, K.E. AND LUSPAY-KUTI, A. (2019) Comparative planetology of the ion chemistry at Pluto, Titan, and Triton. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7047 (Abstract).
- MANDT, K. (2022) Tracing formation and evolution of solar system bodies through stable isotopes and Noble gas abundances. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece*, **B5.1-0018-22**, (Abstract).
- MANN, A. (2024) Pluto’s heart-shaped basin might not hide an ocean after all: A buried rocky remnant from an impact could explain Sputnik Planitia’s odd location. *Sci. News* ???, April 22, 2024.
- MANNING, P.G. (1971) Is Pluto an iron-rich planet? *Nature* **230**, 234–235.
- MANNINO, L.V. (1949) *Contributi dell’ Osservatorio Astrofisico dell’ Universita di Padova in Asagio* No. 12.
- MANSFIELD, M.A. (2016) *Analysis of Pluto’s lightcurve to detect volatile transport*. S.B. thesis, S.M. thesis, Massachusetts Institute of Technology, Cambridge, MA.
- MAO, X., MCKINNON, W.B., KEANE, J.T., SPENCER, J.R., OLKIN, C., WEAVER, JR., H.A., AND STERN, S.A. (2019) Spindown of 2014 MU₆₉ (“Ultima Thule”) by impact of small, cold classical Kuiper Belt Objects. *AGU Fall Meeting Abstracts* **P33I**, 3536 (Abstract).
- MARAN, S.P. (1979) Pluto moon. *Nat. Hist* **88**, no. 3, 100–101.
- MARAN, S.P., BRECHER, K., BURNS, J.O., KULKARNI, S.R., DICKEL, J.R., SNODGRASS, H.B., THOMAS, R.J., AND BYRD, D. (1988) Astrophysics. In “Physics News in 1987.” *Physics Today* **41**, S7–S15.
- MARAN, S.P., BYRD, D., BRECHER, K., LIGHTMAN, A., AND BURNS, J.O. (1989) Astrophysics. In “Physics News in 1988.” *Physics Today* **42**, S7–S8.
- MARAN, S.P. (1990) The promise of the Space Telescope. *Astronomy* **18**, no. 1, 34–43.
- MARCHAL, C. (1993) The mystery of Pluto’s mass. The ring hypothesis. *Cel. Mech. Dyn. Astron.* **56**, 13–26.

- MARCIALIS, R.L. (1983) *A two spot model for the surface of Pluto*. Master's Thesis, Vanderbilt University, Nashville, TN.
- MARCIALIS, R.L. (1984) *A two spot model for the surface of Pluto*. *Bull. Amer. Astron. Soc.* **16**, 651 (Abstract).
- MARCIALIS, R.L. (1989) "Spectrophotometry of Pluto–Charon mutual events." Paper given at *Pluto at Perihelion*, JPL, Sept. 25.
- MARCIALIS, R.L. (1985) *Topographic relaxation on ice covered worlds: Application to Pluto*. *Bull. Amer. Astron. Soc.* **17**, 715 (Abstract).
- MARCIALIS, R.L. (1986) *Photometry of Pluto–Charon mutual events in 1986*. *Bull. Amer. Astron. Soc.* **18**, 821–822 (Abstract).
- MARCIALIS, R.L., RIEKE, G.H., AND LEBOFSKY, L.A. (1987) *The surface composition of Charon: tentative identification of water ice*. *Science* **237**, 1349–1351.
- MARCIALIS, R.L. (1987) *The surface composition of Charon: tentative identification of water ice*. *Bull. Amer. Astron. Soc.* **19**, 859 (Abstract).
- MARCIALIS, R.L. (1988) *A two-spot albedo model for the surface of Pluto*. *Astron. Jour.* **95**, 941–947.
- MARCIALIS, R.L. AND LEBOFSKY, L.A. (1988) *CVF spectrophotometry of Pluto and Triton*. *Bull. Amer. Astron. Soc.* **20**, 807 (Abstract).
- MARCIALIS, R.L., TEDESCO, E.F., LEBOFSKY, L.A., AND FINK, U. (1988) *The albedos of Pluto and Charon: wavelength dependence*. *Bull. Amer. Astron. Soc.* **20**, 807 (Abstract).
- MARCIALIS, R.L. (1988) *The discovery of Charon: happy accident or timely find?* *Bull. Amer. Astron. Soc.* **20**, 840 (Abstract).
- MARCIALIS, R.L. (1989) *The discovery of Charon: happy accident or timely find?* *Jour. Brit. Astron. Assoc.* **99**, 27–29.
- MARCIALIS, R.L. (1989) *Topographic relaxation on ice–covered worlds: application to Pluto II*. *Eos* **70**, 386 (Abstract).
- MARCIALIS, R.L. (1989) *Topographic relaxation on ice–covered worlds: application to Pluto*. Submitted to *Geophys. Res. Letters*.
- MARCIALIS, R.L. (1989) *Topographic relaxation on ice covered worlds: Application to Pluto II*. *Eos* **70**, 386 (Abstract).
- MARCIALIS, R.L. (1990) *The Pluto–Charon system as revealed during the mutual events*. Ph. D. dissertation, Univ. of Arizona, Tucson, AZ.
- MARCIALIS, R.L. (1990) *Compositional diversity in the Pluto–Charon system*. *Bull. Amer. Astron. Soc.* **22**, 1128 (Abstract).
- MARCIALIS, R.L. AND LEBOFSKY, L.A. (1991) *CVF spectrophotometry of Pluto: correlation of composition with albedo*. *Icarus* **89**, 255–263.
- MARCIALIS, R.L., LEBOFSKY, L.A., DISANTI, M.A., FINK, U., TEDESCO, E.F., AND AFRICANO, J. (1992) *The albedos of Pluto and Charon: wavelength dependence*. *Astron. Jour.* **103**, 1389–1394.
- MARCIALIS, R.L. (1993) *Introducing PLUBIB: a Pluto–Charon bibliography database*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- MARCIALIS, R.L. (1993) *Correlation of composition with albedo on Pluto: past results and new problems*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- MARCIALIS, R.L. (1993) *The first half century of Pluto–Charon research*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- MARCIALIS, R.L. (1993) *Correlation of composition with albedo on Pluto: past results and new problems*. *Bull. Amer. Astron. Soc.* **25**, 1132 (Abstract).

- MARCIALIS, R.L. (1993) *Introducing PLUBIB: a Pluto–Charon bibliography database*. *Bull. Amer. Astron. Soc.* **25**, 1132 (Abstract).
- MARCIALIS, R.L. (1996) “The Pluto–Charon system.” In *MacMillan Encyclopedia of the Earth Sciences*, ed. E.J. Dasch (Simon & Schuster-MacMillan Publishing, New York, NY.), pp. 870–873.
- MARCIALIS, R.L. (1996) *Pluto update: surface already mapped, photos prove to be model image*. *Physics Today* **49**, no. 7, 92–93 (Letter to editor).
- MARCIALIS, R.L. (1996) *A Re-investigation of the 1965 April 29 stellar appulse by the Pluto–Charon system*. *Bull. Amer. Astron. Soc.* **28**, 1080 (Abstract).
- MARCIALIS, R.L. (1996) *A reinvestigation of the 1965 April 29 stellar appulse by the Pluto–Charon system*. *Pub. Astron. Soc. Pacific* In preparation.
- MARCIALIS, R.L. (1998) *The diameter of Pluto: a re-analysis of Kuiper’s disk meter measurements*. *Bull. Amer. Astron. Soc.* **30**, 1109 (Abstract).
- MARINO, S. (2021) *Constraining planetesimal stirring: how sharp are debris disc edges?* *Mon. Not. Roy. Astron. Soc.* **503**, no. 4, 5100–5114.
- MARDON, A.A. AND ZHOU, G. (2019) *Understanding of Pluto atmospheric dynamics and behaviour from New Horizons mission. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7074* (Abstract).
- MARGOT, J.L., GLADMAN, B., AND YANG, T. (2024) *Quantitative criteria for defining planets*. Submitted to *Planetary Sci. Jour.*, arXiv:2407.07590.
- MAROHNIC, J.C., RICHARDSON, D.C., MCKINNON, W.B., AGRUSA, H.F., DEMARTINI, J.V., CHENG, A.F., STERN, S., OLKIN, C.B., WEAVER, H.A., SPENCER, J.R., AND THE NEW HORIZONS SCIENCE TEAM. (2020) *Constraining the final merger of contact binary (486958) Arrokoth with soft-sphere discrete element simulations*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 508.03 (Abstract).
- MAROHNIC, J.C., RICHARDSON, D.C., MCKINNON, W.B., AGRUSA, H.F., DEMARTINI, J.V., CHENG, A.F., STERN, S.A., OLKIN, C.B., WEAVER, H.A., SPENCER, J.R., AND THE NEW HORIZONS SCIENCE TEAM. (2021) *Constraining the final merger of contact binary (486958) Arrokoth with soft-sphere discrete element simulations*. *Icarus* **356**, 113824.
- MAROHNIC, J.C., RICHARDSON, D.C., MCKINNON, W.B., AGRUSA, H.F., DEMARTINI, J.V., CHENG, A.F., STERN, S.A., OLKIN, C.B., WEAVER, H.A., SPENCER, J.R., AND THE NEW HORIZONS SCIENCE TEAM. (2019) *Constraining the final merger of contact binary (486958) Arrokoth with soft-sphere discrete element simulations*. *EPSC Abstracts* **15**, 2020–378 (Abstract).
- MAROUF, E.A. (1993) “Onboard signal processing: wave of the future for planetary radio science?” In *Lunar and Planetary Institute Workshop on Advanced Technologies for Planetary Instruments* (Houston, TX, LPI), 17.
- MARSCHALL, L.A. AND MARAN, S.P. (2009) *Pluto confidential: an insider account of the ongoing battles over the status of Pluto*. (Benbella Books, Dallas, TX), 223 pp.
- MARSDEN, B.G. (1980) *Corrigenda*. *IAU Circular No.* 3522.
- MARSDEN, B.G. (1980) *Planets and satellites galore*. *Icarus* **44**, 29–37.
- MARSDEN, B.G. (1985) *Occultation by Pluto on 1985 August 19*. *IAU Circular No.* 4117.
- MARSDEN, B.G. (1986) *Satellites of Saturn and Pluto*. *IAU Circular No.* 4157, 3.
- MARSDEN, B.G. (1990) *First science images from EAS’s Faint Object Camera*. *ESA Bull.* **64**, 104–109.
- MARSDEN, B.G. (1996) *Defining Pluto*. *Sky and Tel.* **92**, no. 58.
- MARSDEN, B.G. (1996) *Searches for planets and comets*. *A.S.P. Conference Series* **107**, 193–208.
- MARSDEN, B.G. (2005) *Fred Lawrence Whipple (1906–2004)*. *Pub. Astron. Soc. Pacific* **117**, 1452–1458.
- MARSDEN, B.G. (2007) *Pluto by any definition... The Pluto question*. *Mercury* **36**, no. 1, 27–29.

- MARSHALL, C. (2015) *Explained in 60 seconds: Why is Pluto not a planet?* *Communicating Astronomy with the Public* **18**, 4.
- MARSHALL, E. (1992) *Space scientists get the jitters.* *Science* **258**, 1296–1297.
- MARSHALL, E. (1993) *Support for Pluto mission—reply.* *Science* **259**, 15.
- MARSHALL, R.K. (1939) *An interesting “prediction” of Pluto.* *The Sky* **4**, 174–176.
- MARSHALL, R.K. (1941) *Astronomical anecdotes: prophets of Pluto.* *The Sky* **5**, 14, 22.
- MARSHALL, R.K. (1970) *Rambling through March skies.* *Sky and Tel.* **39**, 174–176.
- MARTIN, C.R. AND BINZEL, R.P. (2021) *Ammonia-water freezing as a mechanism for recent cryovolcanism on Pluto.* *Icarus* **356**, 113763.
- MARTON, G., KISS, Cs., BALOG, Z., LELLOUCH, E., VEREBÉLYI, AND KLAAS, U. (2015) *Search for signatures of dust in the Pluto-Charon system using Herschel/PACS observations.* *Astron. Astrophys.Lett.* **579**, L9.
- MARTZ, JR., E.P. (1938) *Professor William H. Pickering 1858–1938: An appreciation.* *Pop. Astron.* **46**, 299–310.
- MATCHEVA, K. (2017) *Dynamics of atmospheric waves in a hazy atmosphere: implications for Titan and Pluto.* *Bull. Amer. Astron. Soc.* **49**, no. 5, 213.12 (Abstract).
- MATERESE, C.K., CRUIKSHANK, D.P., SANDFORD, S.A., AND IMANAKA, H. (2014) *Laboratory investigations of complex refractory organic material produced from irradiation of Pluto ice analogs.* *Bull. Amer. Astron. Soc.* **46**, 419.04 (Abstract).
- MATERESE, C.K., CRUIKSHANK, D.P., SANDFORD, S.A., IMANAKA, H., AND NUEVO, M. (2015) *Ice chemistry on outer solar system bodies: electron radiolysis of N₂-, CH₄-, and CO-containing ices.* *Astrophys. Jour.* **812**, no. 2, 150.
- MATHER, J.C. AND PERETZ, E. (2020) *Ground-Space Partnership: ELTs with orbiting guidestars and orbiting starshades.* *Bull. Amer. Astron. Soc.* **52**, no. 1, 130.08 (Abstract).
- MATSUYAMA, I. AND NIMMO, F. (2013) *Pluto’s tectonic pattern predictions.* *Lunar & Planetary Sci.* **44**, 1399 (Abstract).
- MATSUYAMA, I., KEANE, J.T., AND KAMATA, S. (2016) *Global-scale tectonic patterns on Pluto.* *AGU Fall Meeting Abstracts* **P51B**, 2133 (Abstract).
- MATTHEWS, R. (1991) *Planet X: Going, going . . . but not quite gone.* *Science* **254**, 1454–1455.
- MATTHEWS, R. (1992) *The ghostly hand that spaced the planets.* *New Scientist* **142**, no. 1920, 13.
- MATTRAM, K., KENNEDY, H., HICKEY, D., AND MURPHY, T. (1988) *Occultation by Pluto.* *IAU Circular No.* 4612.
- MAURY, M.F. (1851) *Letter of Lieutenant Maury to Hon. William A. Graham, Secretary of the Navy, 1851 Sept. 3.* *Astron. Jour.* **2**, 53.
- MAUVAIS, V. (1848) *Sur une observation inédite de la nouvelle planète.* *Comptes Rendus des Seances de l’Acad. de Sci. (Paris)* **24**, 666–670.
- MAYNARD-CASELY, H., AHRENS, C., BRAND, H., AND HESTER, J. (2019) *Thinking outside the ‘ice’ box; grain size changes of solid nitrogen and its effects on the surface of Pluto.* *ESPC–DPS Joint Meeting* **13**, 201M (Abstract).
- MCCARTHY, D.W., HUBBARD, W.B., KULESA, C.A., BENECCHI, S.D., PERSON, M.J., ELLIOT, J.L., GULBIS, A.A.S. (2008) *Long-wavelength density fluctuations resolved in Pluto’s high atmosphere.* *Astron. Jour.* **136**, 1510–1518.
- MCCCLINTOCK, W.E. AND LAWRENCE, G.M. (1993) *“Requirements for an ultraviolet spectrometer for the Pluto fast flyby mission.”* In *Lunar and Planetary Institute Workshop on Advanced Technologies for Planetary Instruments. Part 2.* (Houston, TX, LPI), 19.

- McCLINTOCK, W.E. AND LAWRENCE, G.M. (1996) “Low-mass low-power ultraviolet telescope-imaging spectrograph for planetary atmospheric remote sensing.” In *Proc. SPIE, Vol. 2807, Space Telescopes and Instruments IV*, ed. P.Y. Bely and J.B. Breckinridge, eds. (256–266), pp. .
- MCCOMAS, D.J. (2007) *New Horizons Plasma observations of Jupiter’s magnetotail to >2500 R_J*. *AGU Fall Meeting Abstracts SM44A, 01* (Abstract).
- MCCOMAS, D., ALLEGRI, F., BAGENAL, F., CASEY, P., DELAMERE, P., DEMKEE, D., DUNN, G., ELLIOTT, H., HANLEY, J., JOHNSON, K., LANGLE, J., MILLER, G., POPE, S., RENO, M., RODRIGUEZ, B., SCHWADRON, N., VALEK, P., AND WEIDNER, S. (2008) *The Solar Wind Around Pluto (SWAP) Instrument Aboard New Horizons*. *Spa. Sci. Rev.* **140**, 261–313.
- MCCOMAS, D.J., ELLIOT, H.A., WEIDNER, S., VALEK, P., ZIRNSTEIN, E.J., BAGENAL, F., DELAMERE, P.A., EBERT, R.W., FUSTEN, H.O., MCNUTT, JR., R.L. MOSER, C., SCHWADRON, N.A., STROBEL, D.F., YOUNG, L.A., ENNICO, K., OLKIN, C.B., STERN, S.A., AND WEAVER, H.A. (2016) *Pluto’s interaction with the solar wind*. *Jour. Geophys. Res.Space Physics* **121**, 4232–4246.
- MCCOMAS, D.J., SWACZYNA, P., SZALAY, J.R., ZIRNSTEIN, E.J., RANKIN, J.S., ELLIOTT, H.A., SINGER, K., SPENCER, J., STERN, S.A., AND WEAVER, H. (2021) *Interstellar pickup ion observations halfway to the Termination Shock*. *Astrophys. Jour. Supp.* **254**, no. 1, 19.
- MCCORD, T.B. AND CRUIKSHANK, D.P. (1980) “Spectrophotometric remote sensing of planets and satellites” In *Proc. Symposium on infrared astronomy (Dordrecht, D. Reidel)*, 57–87.
- MCCULLOUGH, R.N. (2007) *Book Review: Is Pluto a planet? A historical journey through the solar system, by D.A. Weintraub, Princeton Univ. Press, Princeton. 254 pp. Science Books & Films* **43**, no. 3, 118.
- MCDONALD, K.A. (1990) *Recent images from Hubble space telescope raise hopes about potential for discovery*. *Chronicle of Higher Education* **37**, no. 7, A7–A8.
- MCDONALD, R.R. AND SHIPLEY, W.S. (1970) *TOPS—outward bound*. *Astronautics and Aeronautics* **8**, no. 9, 36–38.
- MCDONALD, S.W., BOSH, A.S., SYBERT, C.B., HAMMEL, H.B., AND ELLIOT, J.L. (1991) *The MIT program for identifying occultations and appluses by planets*. *Bull. Amer. Astron. Soc.* **23**, 1210 (Abstract).
- MCDONALD, S.W. AND ELLIOT, J.L. (1992) *Triton stellar occultation candidates: 1992–1994* *Astron. Jour.* **104**, 862–879.
- MCDONALD, S.W., PERSON, M.J., BUS, S.J., AND ELLIOT, J.L. (1995) *Occultation candidates for Triton, Charon, and Pluto–Charon*. *Bull. Amer. Astron. Soc.* **27**, 1101 (Abstract).
- MCDONALD, S.W. AND ELLIOT, J.L. (1996) *Pluto–Charon stellar occultation candidates: 1996–1999*. *Astron. Jour.* **112**, 788–796.
- MCDONALD, S.W., PERSON, M.J., AND ELLIOT, J.L. (1999) *Stellar occultations by Triton, Pluto, and Charon: 2000–2009. Pluto and Triton: comparisons and evolution over time, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24* (Abstract).
- MCDONALD, S.W. AND ELLIOT, J.L. (1996) *Pluto–Charon stellar occultation candidates: 2000–2009*. *Astron. Jour.* **119**, 1999–2007.
- MCDONALD, S.W. AND ELLIOT, J.L. (2000) *Erratum: Pluto–Charon stellar occultation candidates: 2000–2009*. *Astron. Jour.* **120**, 1599–1602.
- MCDOWELL, J. (1994) *Mission update: Pluto mission*. *Sky and Tel.* **88**, no. 3, 16.
- MCDOWELL, J. (2001) *Mission update: Pluto–Kuiper Belt mission*. *Sky and Tel.* **102**, no. 5, 28.
- MCDOWELL, J. (2001) *Mission update: Pluto mission*. *Sky and Tel.* **102**, no. 12, 30.
- MCDOWELL, J. (2003) *Mission update: New Horizons*. *Sky and Tel.* **105**, no. 3, 30.
- MCDOWELL, J. (2005) *Mission update: New Horizons*. *Sky and Tel.* **109**, no. 6, 26.
- MCDOWELL, J. (2006) *Mission update: New Horizons*. *Sky and Tel.* **111**, no. 4, 24.

- MC ELROY, W.D. (1976) *The coldest planet: methane ice found on Pluto*. *Science* **192**, 362.
- MC FADDEN, L. (1996) *Book Review: Physics and chemistry of the solar system*, by J.S. Lewis, Academic Press, San Diego. 537 pp., \$149.00 *Icarus* **124**, 355.
- MC GOVERN, P.J. AND WHITE, O.L. (2018) “Breaking the BBC (Buoyancy Barriers to Cryovolcanism).” Paper given at *Cryovolcanism in the Solar System Workshop*, 5–7 June 2018, Houston, TX, 2029.
- MC GOVERN, P.J., WHITE, O.L., AND SCHENK, P.M. (2019) *Tectonism across Pluto: mapping and interpretations*. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7063 (Abstract).
- MC GOVERN, P.J. AND WHITE, O.L. (2019) *Stress-enhanced ascent of cryomagmas through Pluto’s ice shell from nitrogen ice loading of a Sputnik Planitia Basin*. *Lunar & Planetary Sci.* **50**, 2994 (Abstract).
- MC GOVERN, P.J., WHITE, O.L., AND SCHENK, P.M. (2020) *Tectonism and enhanced cryomagmatic potential around a loaded Sputnik Planitia Basin, Pluto*. *Lunar & Planetary Sci.* **51**, 3013 (Abstract).
- MC GOVERN, P.J. AND WHITE, O.L. (2021) *New Constraints on Pluto’s lithosphere from tectonics, cryovolcanism, and Sputnik Planitia loading models*. *Lunar & Planetary Sci.* **52**, 2698 (Abstract).
- MC GOVERN, P.J., WHITE, O.L., AND SCHENK, P.M. (2021) *Tectonism and enhanced cryovolcanic potential around a loaded Sputnik Planitia Basin, Pluto*. *Jour. Geophys. Res. Planets* **126**, no. 12, e06964.
- MC GOVERN, P.J. AND NGUYEN, A.J. (2024) *The role of Pluto’s ocean’s salinity in supporting nitrogen ice loads within the Sputnik Planitia basin*. *Icarus* **412**, no. 4?, 115968.
- MC GOVERN, W.E. (1973) *Potential atmospheric composition of smaller bodies in the solar system and some aspects of planetary evolution*. *Jour. Geophys. Res.* **78**, 274–280.
- MC GRATH, B.E., FROSTBUTTER, D.A., AND CHANG, Y. (2007) *Probabilities of ground impact conditions of the New Horizons spacecraft and RTG for near launch pad accidents*. *AIP Conference Proceedings* **880**, 579–589.
- MC GRATH, M. (1996) “Planetary science with the Hubble Space Telescope.” In *Science with the Hubble Space Telescope*, ed. P. Benvenuti, F.D. Machetto, and E.J. Schreier (STScI, Baltimore, MD), pp. 512–524.
- MC HALE, J. (1998) *New power systems eyed for future Pluto missions*. *Military & Aerospace Electronics* **9**, no. 1, 1–2.
- MC INTOSH, M.B., BROWN, R.J., AND STERN, S.A. (1996) *Evaluation of a demonstration telescope for the Pluto Express mission*. *Proc. SPIE* **2863**, 14–19 (Abstract).
- MC KELLAR, A.R.W. (1989) *The spectrum of gaseous methane at 77 K in the 1.1–2.6-micron region: a benchmark for planetary astronomy*. *Can. Jour. Phys.* **67**, 1027–1035.
- MC KENNALAWDOR, S.M.P. (1993) *Book Review: Clyde Tombaugh: discoverer of Planet Pluto*, by D.H. Levy Univ. of Arizona Press, Tucson. 211 pp. *Annals of Science* **50**, 586–588.
- MC KINNON, W.B. (1982) *On the origin of Triton*. *Bull. Amer. Astron. Soc.* **14**, 765 (Abstract).
- MC KINNON, W.B. (1984) *On the origin of Triton and Pluto*. *Nature* **311**, 355–358.
- MC KINNON, W.B. (1985) *On the origin of Triton and Pluto*. *Report of the Planetary Geology and Geophysics Program–1984 NASA TM–87563*, 64–66 (Abstract).
- MC KINNON, W.B. AND MUELLER, S. (1988) *Pluto structure and composition: evidence for a solar nebula origin*. *Lunar & Planetary Sci.* **19**, 764–765 (Abstract).
- MC KINNON, W.B. AND MUELLER, S. (1988) *Pluto’s structure and composition suggest origin in the solar, not a planetary, nebula*. *Nature* **335**, 240–243.
- MC KINNON, W.B. (1989) *Origin of the Pluto–Charon binary*. *Eos* **70**, 382 (Abstract).
- MC KINNON, W.B. (1989) *Origin of the Pluto–Charon binary*. *Astrophys. Jour.* **344**, L41–L44.
- MC KINNON, W.B. (1989) *Erratum: On the origin of the Pluto–Charon binary*. *Astrophys. Jour.* **346**, L109.

- McKINNON, W.B., THOLEN, D.J., AND BUIE, M.W. (1989) *Pluto, a special case of zeroth order geodesy. Eos* **70**, 601 (Abstract).
- McKINNON, W.B. (1989) *Impact jetting of water ice—application to the accretion of icy planetesimals, Pluto, and Triton. Eos* **70**, 1184 (Abstract).
- McKINNON, W.B. (1989) *Impact jetting of water ice, with application to the accretion of icy planetesimals and Pluto. Geophys. Res. Letters* **16**, 1237–1240.
- McKINNON, W.B., LEITH, A.C., AND MUELLER, S. (1989) *Origin and evolution of Pluto and Triton. Reports of the Planetary Geology and Geophysics Program—1989 NASA Technical Memorandum* **4130**, 57–59 (Abstract).
- McKINNON, W.B. AND MUELLER, S. (1989) *The density of Triton — a prediction. Geophys. Res. Letters* **16**, 591–594.
- McKINNON, W.B. AND VAN FLANDERN, T. (1991) *Focal point: worlds apart. Sky and Tel.* **82**, 340–341.
- McKINNON, W.B. (1991) *Triton and Pluto—are they the same? Bull. Amer. Astron. Soc.* **23**, 1219 (Abstract).
- McKINNON, W.B. (1992) *Structure and evolution of outer planet satellites. Directory of Research Projects, Planetary Geology and Geophysics Program NASA TM–4428*, 89 (Abstract).
- McKINNON, W.B., SCHUBERT, J., AND SIMONELLI, D.P. (1993) *Internal structures and thermal evolution of Pluto and Charon. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- McKINNON, W.B. (1993) *Interior models and thermal evolution. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- McKINNON, W.B. (1993) *Origin and evolution of Pluto and Charon: a review of constraints from orbital mechanics, density, and angular momentum. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- McKINNON, W.B. (1993) *An enigma orbiting a puzzle. Nature* **365**, 209–210.
- McKINNON, W.B. (1993) *Are Pluto and Charon presently internally active? Bull. Amer. Astron. Soc.* **25**, 1138 (Abstract).
- McKINNON, W.B. AND BRACKETT, R.A. (1994) *Jetting and ice loss during collisional formation of the Pluto–Charon binary. Bull. Amer. Astron. Soc.* **26**, 1170 (Abstract).
- McKINNON, W.B. (1998) *Geodynamics of icy satellites. Astrophys. and Spa. Sci. Library* **227**, 511–523.
- McKINNON, W.B. (1999) *Millennial perspectives on the origin and evolution of Triton and Pluto. Pluto and Triton: comparisons and evolution over time, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).*
- McKINNON, W.B. (2002) *Out on the edge. Nature* **418**, 135–137.
- McKINNON, W.B. (() 2 0 0, 5) *Ice XI on Pluto and Charon? Bull. Amer. Astron. Soc.* 37732 (Abstract).
- McKINNON, W.B. (2006) *On convection in ice I shells of outer solar system bodies, with detailed application to Callisto. Icarus* **183**, 435–450.
- McKINNON, W.B. (2009) *Dwarf planets as the most populous class of planet. AGU Fall Meeting Abstracts* **P31C**, 01 (Abstract).
- McKINNON, W.B., ATREYA, S., BAINES, K., BEAUCHAMP, P., CLARKE, J., COLLINS, G., CONNERNEY, J., HANSEN, C., HOFSTADTER, M., JOHNSON, T.V., LORENZ, R., PAPPALARDO, R., PHILLIPS, C., RADEBAUGH, J., SCHENK, P., SPILKER, L., SPILKER, T., THROOP, H., TURTLE, E., WILLIAMS, D., AND COMMUNITY, OPAG. (2009) *Recommended exploration strategy for the outer planets 2013–2022. Bull. Amer. Astron. Soc.* **41**, 16.21 (Abstract).
- McKINNON, W.B. AND BARR, A.C. (() 2 0 0, 6) *Structure and evolution of ice dwarf planets. Bull. Amer. Astron. Soc.* (Abstract).

- McKINNON, W.B., BUIE, M., MOORE, J., LINSKOTT, I., HINSON, D., TYLER, G., SINGER, K., STERN, S., AND NEW HORIZONS TEAM (2014) *New Horizons mission to Pluto and the Kuiper belt. Asteroids, Comets, and Meteorites* **2014**, 345 (Abstract).
- McKINNON, W.B., BUIE, M., MOORE, J., LINSKOTT, I., HINSON, D., TYLER, G., SINGER, K., STERN, S., AND NEW HORIZONS TEAM (2014) *Cosmogonic constraints from densities in the Pluto system and rotational and tidal figures of equilibrium for Pluto and Charon. Asteroids, Comets, and Meteorites* **2014**, 346 (Abstract).
- McKINNON, W.B. AND SINGER, K.N. (2014) *The internal structures of Pluto and Charon: can New Horizons tell? Bull. Amer. Astron. Soc.* **46**, 419.07 (Abstract).
- McKINNON, W.B., NIMMO, F., WONG, T., SCHENK, P.M., WHITE, O.L., ROBERTS, J.H., MOORE, J.M., SPENCER, J.R., HOWARD, A.D., UMURHAN, O.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING THEME TEAM (2016) *Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. Nature* **534**, no. 7605, 82–85.
- McKINNON, W.B., NIMMO, F., WONG, T., SCHENK, P.M., WHITE, O.L., ROBERTS, J.H., MOORE, J.M., SPENCER, J.R., HOWARD, A.D., UMURHAN, O.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING THEME TEAM (2016) *Corrigendum: Convection in a volatile nitrogen-ice-rich layer drives Pluto's geological vigour. Nature* **537**, no. 7618, 122.
- McKINNON, W.B., MOORE, J.M., SPENCER, J.R., GRUNDY, W.M., GLADSTONE, G.R., NIMMO, F., SCHENK, P.M., HOWARD, A.D., STERN, S.A., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS GGI TEAM (2016) *The Pluto–Charon system revealed: geophysics, activity, and origins. Lunar & Planetary Sci.* **47**, 1995 (Abstract).
- McKINNON, W.B., NIMMO, F., WONG, T., ROBERTS, J.S., SCHENK, P.M., MOORE, J.M., SPENCER, J.R., HOWARD, A.D., UMURHAN, O.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS GGI TEAM. (2016) *Thermal convection in solid nitrogen, and the depth and surface age of cellular terrain within Sputnik Planum, Pluto. Lunar & Planetary Sci.* **47**, 2921 (Abstract).
- McKINNON, W.B., SCHENK, P.M., MOORE, J.M., HOWARD, A.D., NIMMO, F., SINGER, K.N., BRAY, V.J., YOUNG, L.A., OLKIN, C., ENNICO, K., WEAVER, H.A., AND STERN, S.A. (2016) *An impact basin origin for Sputnik “Planitia” and surrounding terrains, Pluto. Geological Soc. Amer. Annual Meeting T160*, 48-6 (Abstract).
- McKINNON, W.B., MOORE, J.M., SPENCER, J.R., SINGER, K.N., PROTOPAPA, S., GRUNDY, W., WHITE, O., SCHENK, P.M., OLKIN, C.B., YOUNG, L., ENNICO, K., WEAVER, H.A., STERN, S.A., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING THEME TEAM, NEW HORIZONS COMPOSITION THEME TEAM. (2016) *Sputnik Planum, Pluto: composition, geology, and origin. Bull. Amer. Astron. Soc.* **48**, no. 7, 89 (Abstract).
- McKINNON, W.B., STERN, S.A., WEAVER, H.A., NIMMO, F., BIERSON, C.J., GRUNDY, W.M., COOK, J.C., CRUIKSHANK, D.P., PARKER, A.H., MOORE, J.M., SPENCER, J.R., YOUNG, L.A., OLKIN, C.B., SMITH, K.E., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING AND COMPOSITION THEME TEAMS. (2017) *Origin of the Pluto–Charon system: constraints from the New Horizons flyby. Icarus* **287**, 2–11.
- McKINNON, W.B., SCHENK, P.M., MAO, X., MOORE, J.M., SPENCER, J.R., NIMMO, F., YOUNG, L.A., OLKIN, C.B., ENNICO, K., WEAVER, H.A., STERN, S.A., AND NEW HORIZONS GGI THEME TEAM. (2017) *Impact origin of Sputnik Planitia Basin, Pluto. Lunar & Planetary Sci.* **48**, 2854 (Abstract).
- McKINNON, W.B., WONG, T., WHITE, O.L., SCHENK, P.M., LAUER, T.R., UMURHAN, O.M., NIMMO, F., MOORE, J.M., HOWARD, A.D., SPENCER, J.R., GRUNDY, W.M., PROTOPAPA, S., YOUNG, L.A., OLKIN, C.B., WEAVER, H.A., STERN, S.A., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING TEAM. (2017) *Nitrogen ice sheet convection within the Sputnik Planitia impact basin, Pluto. Asteroids, Comets, and Meteorites* **2017**, 136 (Abstract).

- McKINNON, W.B., SCHENK, P.M., BLAND, M.T., SINGER, K.N., WHITE, O.L., MOORE, J.M., SPENCER, J.R., YOUNG, L.A., OLKIN, C.B., WEAVER, H.A., STERN, S.A., AND THE NEW HORIZONS GGI THEME TEAM. (2018) *Pluto's heat flow: a mystery wrapped in an ocean inside an ice shell.* *Lunar & Planetary Sci.* **49**, 2715 (Abstract).
- McKINNON, W.B., BEYER, R.A., SCHENK, P.M., MOORE, J.M., SINGER, K.N., WHITE, O.L., SPENCER, J.R., COOK, J.C., GRUNDY, W.M., CRUIKSHANK, D.P., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., STERN, S.A., ROBBINS, S.J., THE NEW HORIZONS GGI TEAM, AND THE NEW HORIZONS COMPOSITION TEAM. (2018) "Vulcan Planitia, type example of outer solar system ammonia-water cryovolcanism." Paper given at *Cryovolcanism in the Solar System Workshop*, 5–7 June 2018, Houston, TX, 2030.
- McKINNON, W.B., GLEIN, C.R., AND RHODEN, A.R. (2019) *Formation, composition, and history of the Pluto system: a post-New-Horizons synthesis.* *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7067 (Abstract).
- McKINNON, W.B., STERN, S.A., WEAVER, H.A., SPENCER, J.R., BUIE, M.W., BEYER, R.A., BIERSON, C.J., BINZEL, R.P., BRITT, D., CRUIKSHANK, D.P., HAMILTON, D.P., HOWETT, C.J.A., KEANE, J.T., LAUER, T.R., KAVELAARS, J.J., PARKER, A.H., PARKER, J.W., PORTER, S.B., ROBBINS, S.J., SCHENK, P.M., SHOWALTER, M.R., SINGER, K.N., UMURHAN, O.M., WHITE, O.L., MOORE, J.M., GRUNDY, W.M., GLADSTONE, G.R., OLKIN, C.B., VERBISER, A.J., AND NEW HORIZONS SCIENCE TEAM. (2019) *A pristine "contact binary" in the Kuiper Belt: implications from the New Horizons encounter with 2014 MU69 ("Ultima Thule").* *Lunar & Planetary Sci.* **50**, 2767 (Abstract).
- McKINNON, W.B., GRUNDY, W.M., HAMILTON, D., UMURHAN, O.M., KEANE, J.T., SPENCER, J.R., OLKIN, C., WEAVER, JR., H.A., AND STERN, S.A. (2019) *On the solar nebula origin of (486958) 2014 MU₆₉, a primordial contact binary in the Kuiper Belt.* *AGU Fall Meeting Abstracts P42C*, 05 (Abstract).
- McKINNON, W.B., RICHARDSON, D.C., MAROLNIC, J.C., KEANE, J.T., GRUNDY, W.M., HAMILTON, D.P., NESVORNÝ, D., UMURHAN, O.M., LAUER, T.R., SINGER, K.N., STERN, S.A., WEAVER, H.A., SPENCER, J.R., BUIE, M.W., MOORE, J.M., KAVELAARS, J.J., LISSE, C.M., MAO, X., PARKER, A.H., PORTER, S.B., SHOWALTER, M.R., OLKIN, C.B., CRUIKSHANK, S.P., ELLIOTT, H.A., GLADSTONE, G.R., PARKER, J.W., VERBISER, A.J., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2020) *The solar nebula origin of (486958) Arrokoth, a primordial contact binary in the Kuiper Belt.* *Science* **367**, no. 6481, 1000; eaay6620.
- McKINNON, W.B., KEANE, J.T., NESVORNÝ, D., RICHARDSON, D.C., HAMILTON, D.P., LAUER, T.R., LISSE, C.M., MAO, X., MAROHNIC, J., PARKER, A.H., PORTER, S.B., SHOWALTER, M.W., UMURHAN, O.M., SPENCER, J.R., GRUNDY, W.M., MOORE, J.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., AND THE NEW HORIZONS SCIENCE TEAM. (2019) *On the origin of the remarkable contact binary (486958) 2014 MU69 ("Ultima Thule").* *ESPC–DPS Joint Meeting* **13**, 1387M (Abstract).
- McKINNON, W.B., STERN, S.A., SPENCER, J.R., GRUNDY, W.M., MAO, X., OLKIN, C.B., WEAVER, H.A., AND THE NEW HORIZONS SCIENCE TEAM. (2020) *Evolution of binary planetesimals due to gas drag in the protosolar nebula.* *Bull. Amer. Astron. Soc.* **52**, no. 6, 206.02 (Abstract).
- McKINNON, W.B., MAO, X., SCHENK, P.M., SINGER, K.N., WHITE, O.L., BEYER, R.A., PORTER, S.B., KEANE, J.T., BRITT, D.T., SPENCER, J.R., GRUNDY, W.M., MOORE, J.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., AND THE NEW HORIZONS SCIENCE TEAM. (2021) *Compaction craters on (486958) Arrokoth.* *Bull. Amer. Astron. Soc.* **53**, 111.03 (Abstract).
- McKINNON, W.B., SCHENK, P.M., BLAND, M.T., SINGER, K.N., AND ROBBINS, S.J. (2022) "Viscous relaxation of craters on Pluto: possible indication of early high heat flow." Paper given at *13th Planetary Crater Consortium Meeting, held 10-12 August, 2022 in Boulder, CO and virtually.* LPI Contribution No. 2702, id. 2026., .

- McKINNON, W.B., MAO, X., SCHENK, P.M., SINGER, K.N., ROBBINS, S.J., WHITE, O.L., BEYER, R.A., PORTER, S.B., KEANE, J.T., BRITT, D.T., SPENCER, J.R., GRUNDY, W.M., MOORE, J.M., STERN, S.A., WEAVER, H.A., AND OLKIN, C.B. (2022) *Snow crash: compaction craters on (486958) Arrokoth and other small KBOs, with implications*. *Geophys. Res. Letters* **49**, no. 13, e98406.
- McLAUGHLIN, W.I. (1980) *Prediscovery evidence of planetary rings*. *Jour. Brit. Interplanetary Soc.* **33**, 287–294.
- McMAHON, Z., AHRENS, C., AND CHEVRIER, V. (2016) *Development of a new Pluto surface simulation chamber*. *Lunar & Planetary Sci.* **47**, 1728 (Abstract).
- McNUTT, M. AND STERN, A. (2015) *Engaging new scientific horizons*. *Science* **349**, no. 6244, 121.
- McNUTT, JR., R.L. (1989) *Models of Pluto’s upper atmosphere*. *Geophys. Res. Letters* **16**, 1225–1228.
- McNUTT, JR., R.L. (1991) *The magnetospheres of the outer planets*. *Rev. Geophys. Supp.* **29**, 985–997.
- McNUTT, JR., R.L. (1993) *Darkening of Pluto: a magnetospheric effect? Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- McNUTT, JR., R.L., GOLD, R.E., YOUNG, D.T., AND GRUNTMAN, M.A. (1993) *Cruise science from a Pluto Fast Flyby mission*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- McNUTT, JR., R.L. AND ANDREWS, G.B. (2003) “A compact particle detector for the New Horizons Mission to Pluto.” Paper given at *EGS XXVII General Assembly, Nice, 21-26 April 2002*, 2054.
- McNUTT, JR., R.L. (2004) “Solar System Exploration: a vision for the next hundred years.” Paper given at *55th International Astronautical Congress, Vancouver, BC, IAC paper #04-IAA.3.8.1.02*.
- McNUTT, R.L., HILL, M.E., GURNEE, R.S., HAGGERTY, D.K., HO, G.C., KRIMIGIS, S.M., LIVI, S., MAUK, B.H., AND MITCHELL, D.G. (2007) *New Horizons at Jupiter: energetic particle observations from PEPSSI*. *AGU Fall Meeting Abstracts P41B, 03* (Abstract).
- McNUTT, JR., R.L., LIVI, S.A., GURNEE, R.S., HILL, M.E., COOPER, K.A., ANDREWS, G.B., KEATH, E.P., KRIMIGIS, S.M., MITCHELL, D.G., TOSSMAN, B., BAGENAL, F., BOLDT, J.D., BRADLEY, W., DEVEREUX, W.S., HO, G.C., JASKULEK, S.E., LEFEVERE, T.W., MALCOM, H., MARCUS, G.A., HAYES, J.R., MOORE, G.T., PERRY, M.E., WILLIAMS, B.D., WILSON, IV, P., BROWN, L.E., KUSTERER, M., AND VANDEGRIFF, J. (2008) *The Pluto Energetic Particle Spectrometer Science Investigation (PEPSSI) on the New Horizons Mission*. *Spa. Sci. Rev.* **140**, 315–385.
- McNUTT, JR., R.L., LIVI, S.A., GURNEE, R.S., HILL, M.E., COOPER, K.A., ANDREWS, G.B., KEATH, E.P., KRIMIGIS, S.M., MITCHELL, D.G., TOSSMAN, B., BAGENAL, F., BOLDT, J.D., BRADLEY, W., DEVEREUX, W.S., HO, G.C., JASKULEK, S.E., LEFEVERE, T.W., MALCOM, H., MARCUS, G.A., HAYES, J.R., MOORE, G.T., PASCHALIDIS, NIKOLAOS P., PERRY, M.E., WILLIAMS, B.D., WILSON, IV, P., BROWN, L.E., KUSTERER, M., AND VANDEGRIFF, J. (2009) *Erratum: The Pluto Energetic Particle Spectrometer Science Investigation (PEPSSI) on the New Horizons Mission*. *Spa. Sci. Rev.* **145**, 381.
- McNUTT, R.L., LISSE, C.M., STERN, A., CRAVENS, T.E., HILL, M.E., STROBEL, D.F., ZHU, X., ELLIOTT, H.A., CHUTJIAN, A., WEAVER, H.A., MCCOMAS, D.J., WOLK, S.J., AND YOUNG, L.A. (2014) *Charge-exchange X-rays: limits on Pluto’s atmospheric escape rate*. *Bull. Amer. Astron. Soc.* **46**, 401.06 (Abstract).
- McNUTT, R.L., HILL, M.E., LISSE, C.M., KOLLMANN, P., BAGENAL, F., KRIMIGIS, S.M., MCCOMAS, D.J., ELLIOT, H.A., WOLK, S.J., STROBEL, D.F., ZHU, X., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND OLKIN, C.B. (2015) *Escape of Pluto’s Atmosphere: in situ measurements from the Pluto Energetic Particle Spectrometer Science Investigation (PEPSSI) instrument on New Horizons and remote observations from the Chandra X-ray Observatory*. *Bull. Amer. Astron. Soc.* **47**, 105.09 (Abstract).
- McNUTT, R.L., WIMMER-SCHWEINGRUBER, R.F., GRUNTMAN, M., KRIMIGIS, S.M., ROELOF, E.C., BRANDT, P.C., VERNON, S.R., PAUL, M.V., LATHROP, B.W., MEHOKE, D.S., NAPOLILLO, D.H., AND STOUGH, R.W. (2019) *Near-term interstellar probe: first step*. *Acta Astronautica* **162**, 284–299.

- MCRONALD, A.D. AND RANDOLPH, J.E. (1990) “Hypersonic maneuvering to provide planetary gravity assist.” Paper given at *Twenty-eighth Aerospace Sciences Meeting*, Reno, NV, January 8–11, 1990.
- MEAD, P.E. (1995) *Surface-atmosphere interaction processes on the icy satellites Io and Triton*. Ph.D. dissertation, University of Colorado at Boulder, Boulder, CO.
- MEADOWS, A.J. (1980) Book Review: *Planets X and Pluto*, by W.G. Hoyt *Nature* **284**, 706.
- MEEUS, J. (1971) *Letters. Sky and Tel.* **42**, 63 (Letter to editor).
- MEEUS, J. (1972) Résonances dans le système Neptune–Pluton. *L’Astronomie* **86**, 33–36.
- MEEUS, J. (1978) Satellite probable de Pluton. *Ciel et Terre* **94**, 324.
- MELILLO, F.J. (1999) Unfiltered CCD photometry of Pluto in 1998. *IAPPP Comm.* **75**, 29–31.
- MELITA, M.D. AND BRUNINI, A. (2000) Comparative study of mean-motion resonances in the trans-Neptunian region. *Icarus* **147**, 205–219.
- MELITA, M.D., LARWOOD, J., COLLANDER-BROWN, S., FITZSIMMONS, A., WILLIAMS, I.P., AND BRUNINI, A. (2003) The edge of the Edgeworth-Kuiper Belt: stellar encounter, trans-Plutonian planet or outer limit of the primordial solar nebula? *Asteroids, Comets, and Meteorites* **2014**, 305–308 (Abstract).
- MEMASADEGHI, N. AND MCFADDEN, L. (2014) NASA Computational Case Study: Where Is My Moon? *Computing in Science & Engineering* **16**, no. 6, 92–99.
- MENTEN, S.M., BRAMSON, A.M., AND SORI, M.M. (2021) Cryovolcanically sourced methane on Charon. *Lunar & Planetary Sci.* **52**, 1047 (Abstract).
- MENTEN, S.M., SORI, M.M., AND BRAMSON, A.M. (2022) Endogenically sourced volatiles on Charon and other Kuiper belt objects. *Nature Communication* **13**, 4457.
- MENTEN, S.M., SORI, M.M., AND BRAMSON, A.M. (2022) Tests of an endogenic origin for Mordor Macula on Charon. *Lunar & Planetary Sci.* **53**, 2008 (Abstract).
- MEREDITH, C. (1992) Starlets of the solar system. *Popular Astronomy* **39**, no. 3, 11–14.
- MERLIN, F., BARUCCI, M.A., DE BERGH, C., ALVAREZ-CANDAL, A., DEMEO, F.E., AND DUMAS, C. (2009) Chemical and physical properties of the heterogeneous Pluto and Charon surfaces. *Bull. Amer. Astron. Soc.* **41**, 47.05 (Abstract).
- MERLIN, F., BARUCCI, M.A., DE BERGH, C., DEMEO, F.E., ALVAREZ-CANDAL, A., DUMAS, C., AND CRUIKSHANK, D.P. (2010) Chemical and physical properties of the variegated Pluto and Charon surfaces. *Icarus* **210**, 930–943.
- MERLIN, F. (2015) New constraints on the surface of Pluto. *Astron. Astrophys.* **582**, A39.
- MERLIN, F., LELLOUCH, E., QUIRICO, E., AND SCHMITT, B. (2017) Physical constraints on the ices present on Triton’s surface. *Bull. Amer. Astron. Soc.* **49**, no. 5, 214.20 (Abstract).
- MERLINE, W.J., WEAVER, H.A., TAMBLYN, P.M., NEYMAN, C., STERN, S.A., CARRY, B., SPENCER, J.R., CONRAD, A.R., SHOWALTER, M.A., OLKIN, C.B., STEFFL, A.J., SHEPPARD, S.S., BUIE, M.W., AND ENKE, B.L. (2012) A Keck Search for faint satellites of Pluto in support of *New Horizons*. *Bull. Amer. Astron. Soc.* **44**, 304.9 (Abstract).
- MERVIS, J. (2002) NSF gets big lift; Pluto mission backed. *Science* **297**, 755.
- MERRYFIELD, W.J. AND SHIZGAL, B.D. (1994) Discrete velocity model for an escaping single-component atmosphere. *Planetary and Spa. Sci.* **42**, 409–419.
- MESEROLE, J.S. AND RICHARDS, W.R. (1994) “Direct-trajectory options using solar electric propulsion for the Pluto Fast Flyby.” Paper given at *AIAA/ASME/SAE/ASEE, Joint Propulsion Conference, 30th, Indianapolis, IN, June 27-29, 1994, AIAA Paper #94-3253*.
- MESEROLE, J.S. AND RICHARDS, W.R. (2001) Direct flight to Pluto using solar electric propulsion. *Jour. Propulsion and Power* **17**, no. 4, 753–757.
- MESSAGE, P.J. (1972) A survey of dynamical data for the major planets and satellites. *Phys. Earth and Planetary Interiors* **6**, 17–20.

- MESSELL, K. (1974) *Pluto*. *Astron. Tidssk.* **7**, 31–32.
- MESSERRI, L.R. (2010) *The problem with Pluto: conflicting cosmologies and the classification of planets*. *Social Studies of Science* **40**, no. 2, 187–214.
- METZGER, P.T., GURNDY, W.M., SYKES, M.V., STERN, A., BELL, II, J.F., DETELICH, C.E., RUNYON, K., AND SUMMERS, M. (2022) *Icarus Moons are planets: Scientific usefulness versus cultural teleology in the taxonomy of planetary science*. **374**, 114768.
- MEYER, W.F. AND NEUBAUER, F.J. (1930) *Photographic positions of the Lowell Observatory object*. *Lick Obs. Bull.* #421 **14**, 192.
- MEYER, W.F. (1930) *The Lowell trans-Neptunian object*. *Pub. Astron. Soc. Pacific* **42**, 186–188.
- MEYER, T.R., PRYOR, W.R., MCKAY, C.P., MCKENNA, P.M. (2002) *Laser elevator: momentum transfer using an optical resonator*. *Jour. Spacecraft and Rockets* **39**, no. 2, 258–266.
- MEZA, E. AND SICARDY, B. (2016) *Structure and evolution of Pluto’s atmosphere from ground-based stellar occultations between 2002 and 2015*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 144 (Abstract).
- MEZA, E., SICARDY, B., ASSAFIN, M., ORTIZ, J.L., BERTRAND, T., LELLOUCH, E., DESMARS, J., FORGET, F., BÉRARD, D., DORESSOUNDIRAM, A., LECACHEUX, J., MARQUES OLIVEIRA, J., ROQUES, F., WIDEMANN, T., COLAS, F., VACHIER, F., RENNER, S., LEIVA, R., BRAGA-RIBAS, F., BENEDETTI-ROSSI, G., CAMARGO, J.I.B., DIAS-OLIVEIRA, A., MORGADO, B., GOMES-JÚNIOR, A.R., VIEIRA-MARTINS, R., BEHREND, R., CASTRO TIRADO, A., DUFFARD, R., MORALES, N., SANTOS-SANZ, P., JELÍNEK, M., CUNNIFFE, R., QUEREL, R., HARNISCH, M., JANSEN, R., PENNELL, A., TODD, S., IVANOV, V.D., OPITOM, C., GILLON, M., JEHIN, E., MANFROID, J., POLLOCK, J., REICHAERT, D.E., HAISLIP, J.B., IVARSEN, K.M., LACLUYZE, A.P., MAURY, A., GIL-HUTTON, R., DHILLON, V., LITTLEFAIR, S., MARSH, T., VEILLET, C., BATH, K.-L., BEISKER, W., BODE, H.-J., KRETLOW, M., HERALD, D., GAULT, D., KERR, S., PAVLOV, H., FARAGÓ, O., KLÖS, O., FRAPPA, E., LAVAYSSIÈRE, M., COLE, A.A., GILES, A.B., GREENHILL, J.G., HILL, K.M., BUIE, M.W., OLKIN, C.B., YOUNG, E.F., YOUNG, L.A., WASSERMAN, L.H., DEVOGÈLE, M., FRENCH, R.G., BIANCO, F.B., MARCHIS, F., BROSCHE, N., KASPI, S., POLISHOOK, D., MANULIS, I., AIT MOULAY LARBI, M., BENKHALDOUN, Z., DAASSOU, A., EL AZHARI, Y., MOULANE, Y., BROUGHTON, J., MILNER, J., DOBOSZ, T., BOLT, G., LADE, B., GILMORE, A., KILMARTIN, P., ALLEN, W.H., GRAHAM, P.B., LOADER, B., MCKAY, G., TALBOT, J., PARKER, S., ABE, L., BENDJOYA, P., RIVET, J.-P., VERNET, D., DI FABRIZIO, L., LORENZI, V., MAGAZZÙ, A., MOLINARI, E., GAZEAS, K., TZOUGANATOS, L., CARBOGNANI, A., BONNOLI, G., MARCHINI, A., LETO, G., ZANMAR SANCHEZ, R., MANCINI, L., KATTENTIDT, B., DOHRMANN, M., GUHL, K., ROTHE, W., WALZEL, K., WORTMANN, G., EBERLE, A., HAMPF, D., OHLERT, J., KRANNICH, G., MURAWSKY, G., GÄHRKEN, B., GLOSTEIN, D., ALONSO, S., ROMÁN, A., COMMUNAL, J.-E., JABET, F., DE VISSCHER, S., SÉROT, J., JANIK, T., MORAVEC, Z., MACHADO, P., SELVA, A., PERELLÓ, C., ROVIRA, J., CONTI, M., PAPINI, R., SALVAGGIO, F., NOSCHESI, A., TSAMIS, V., TIGANI, K., BARROY, P., IRZYK, M., NEEL, D., GODARD, J.P., LANOISELÉE, D., SOGORB, P., VÉRILHAC, D., BRETTON, M., SIGNORET, F., CIABATTARI, F., NAVES, R., BOUTET, M., DE QUEIROZ, J., LINDNER, P., LINDNER, K., ENSKONATUS, P., DANGL, G., TORDAI, T., EICHLER, H., HATTENBACH, J., PETERSON, C., MOLNAR, L.A., AND HOWELL, R.R. (2019) *Pluto’s lower atmosphere and pressure evolution from ground-based stellar occultations, 1988–2016*. *Astron. Astrophys.* **625**, A42.
- MICHAEL, B.P. AND ALLEN, JR., J.E. (2001) *Assessment of model predictions for the relaxation of methane by nitrogen*. *Bull. Amer. Astron. Soc.* **33**, 1143 (Abstract).
- MICHAEL, B.P. AND ALLEN, JR., J.E. (2002) *Methane ν_4 relaxation by nitrogen*. *Bull. Amer. Astron. Soc.* **33**, 910 (Abstract).
- MICHAEL, JR., W.H. (1979) *Planetary geodesy*. *Rev. Geophys. Spa. Phys.* **17**, no. 6, 1437–1442.
- MICHAELS, T. AND YOUNG, L.A. (2011) *Modeling 3-D global atmosphere-surface interactions on contemporary Pluto*. *EPSC Abstracts* **6**, 1613 (Abstract).

- MICHAELS, T.I. (2012) *Global modeling of 3-D atmosphere-surface interactions on Pluto*. *AGU Fall Meeting Abstracts 2012* **P13B**, 1937 (Abstract).
- MICHAELS, T.I. (2013) *Pluto: global modeling of 3-D atmosphere-surface interactions*. *Bull. Amer. Astron. Soc.* **45**, 310.02 (Abstract).
- MICHAELS, T.I. (2015) *Pluto: modeling of 3-D atmosphere-surface interactions*. *Bull. Amer. Astron. Soc.* **47**, 210.22 (Abstract).
- MICHAELY, E., PERETS, H.B., AND GRISHIN, E. (2017) *On the existence of regular and irregular outer moons orbiting the Pluto–Charon system*. *Astrophys. Jour.* **836**, no. 1, 27.
- MICKELSON, W.R. (1996) “Performance parameters for electric-propulsion systems.” Paper given at *AIAA 3rd Annual Meeting, Boston, MA*, .
- MIGNARD, F. (1981) *Tidal effects in the evolution of natural satellites*. *Annales de Geophysique* **37**, 173–178.
- MIGNARD, F. (1981) *On a possible origin of Charon*. *Astron. Astrophys.* **96**, L1–L2.
- MIGNARD, F. AND BONNEAU, D. (1981) *At the borders of the solar system: Pluto and Charon*. *Recherche* **123**, 738–740.
- MIKKOLA, S. AND INNANEN, K. (1992) *A numerical exploration of the evolution of Trojan-type asteroidal orbits*. *Astron. Jour.* **104**, 1641–1649.
- MIKKOLA, S. AND LEHTO, H.J. (2022) *Overlong simulations of the solar system dynamics with two alternating step-lengths*. *Cel. Mech.DynAstron.* **134**, no. 2, 20.
- MILANI, A. AND NOBILI, A.M. (1985) *Resonant structure of the outer solar system*. *Cel. Mech.* **35**, 269–287.
- MILANI, A., NOBILI, A.M., FOX, K., AND CARPINO, M. (1986) *Long-term changes in the semimajor axes of the outer planets*. *Nature* **319**, 386–388.
- MILANI, A., NOBILI, A.M., AND CARPINO, M. (1987) *Secular variations of the semimajor axes: theory and experiments*. *Astron. Astrophys.* **172**, 265–279.
- MILANI, A., NOBILI, A.M., AND CARPINO, M. (1989) *Dynamics of Pluto*. *Icarus* **82**, 200–217.
- MILANI, A. (1989) *Emerging stability and chaos*. *Nature* **338**, 207–208.
- MILANI, A. AND NOBILI, A.M. (1992) *An example of stable chaos in the solar system*. *Nature* **357**, 569–571.
- MILES, R. (2001) *Beyond Pluto: exploring the outer limits of the solar system (Book review)*. *Jour. Brit. Astron. Assoc.* **111**, 295.
- MILES, R. (2010) *Pluto — sentinel of the outer solar system, by B.W. Jones (Book review)* *Jour. Brit. Astron. Assoc.* **120**, no. 6, 376.
- MILES, R. (2010) *Project PLUTO 2009*. *Jour. Brit. Astron. Assoc.* **120**, no. 5, 269.
- MILLER, C. (2007) *More pleas for Pluto*. *Sky and Tel.* **113**, no. 1, 12 (Letter to editor).
- MILLER, C.F. (2013) *Methods for constraining surface properties and volatile migration on Phoebe, Triton, Pluto, and the moon*. *New Mexico State U., Las Cruces, NM*.
- MILLER, J.A. AND SHAPLEY, H. (1930) *Trans-Neptunian Planet*. *Harvard College Observatory Announcement Card* **121**, April 14.
- MILLER, J.A. AND THOLEN, D.J. (2003) *Revisiting the question of Charon’s orbital eccentricity*. *Bull. Amer. Astron. Soc.* **35**, 940 (Abstract).
- MILLER, J.H. (2019) *Craters on Pluto and Charon show that Kuiper belt collisions are rare*. *Physics Today* **72**, no. 5, 14–16.
- MILLER, J.K., STANBRIDGE, D.R., AND WILLIAMS, B.G. (2005) *New Horizons Pluto approach navigation*. *Advances in the Astronautical Sciences* **119**, no. 1, 529–540..
- MILLER, J.W. AND YIN, A. (2022) *Megaflood origins for Pluto’s washboard and fluted terrains*. *Lunar & Planetary Sci.* **53**, 2738 (Abstract).

- MILLER, R.G., BARKLAY, C.D., HOWELL, E.I., AND FRAZIER, T.A. (1997) *Compatibility issues of potential payloads for the USA/9904/B(U)F-85 RTG transportation system (RTGTS) for the “Pluto Express” mission.* *AIP Conference Proceedings* **387**, 1469–1474.
- MILLIS, R.L. AND WASSERMAN, L.H. (1983) *Possible occultation by Pluto on 1983 April 4.* *IAU Circular No. 3780*, 1.
- MILLIS, R.L. (1986) “Occultation studies with small telescopes.” In *Instrumentation and Research Programs for Small Telescopes, IAU Symposium No. 118*, ed. J.B. Hearnshaw and P.L. Cottrell (D.Reidel, Norwell, MA), pp. 199–211.
- MILLIS, R.L. (1988) *Occultation studies of the solar system. Reports of Planetary Astronomy—1986 NASA Technical Memorandum 100776*, 78–79 (Abstract).
- MILLIS, R.L., WASSERMAN, L.H., FRANZ, O.G., NYE, R.A., GILMORE, A.C., KILMARTIN, P.M., ALLEN, W.H., WATSON, R.D., DIETERS, S.W., HILL, K.M., GILES, A.B., BLOW, G., PRIESTLEY, J., WALKER, W.S.G., MARINO, B.F., DIX, D.G., PAGE, A., KENNEDY, H.D., ELLIOT, J.L., DUNHAM, E., BOSH, A.S., YOUNG, L.A., SLIVAN, S.M., AND KLEMOLA, A.R. (1988) *Observations of the 9 June 1988 occultation by Pluto.* *Bull. Amer. Astron. Soc.* **20**, 806 (Abstract).
- MILLIS, R.L. (1988) *Occultation studies of the solar system. Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 93–94 (Abstract).
- MILLIS, R.L. (1988) *Occultation by Pluto.* *IAU Circular No. 4611*.
- MILLIS, R.L. (1988) *Planetary spectroscopy. Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 43–44 (Abstract).
- MILLIS, R.L., WASSERMAN, L.H., FRANZ, O.G., DAHN, C.C., AND KLEMOLA, A.R. (1980) *The mass ratio of the Pluto/Charon system.* *Eos* **70**, 381–382 (Abstract).
- MILLIS, R.L. (1989) *Occultation studies of the solar system. Reports of Planetary Astronomy—1989 NASA Technical Memorandum 4120*, 93–94 (Abstract).
- MILLIS, R.L. (1989) *Hazy atmosphere revealed on Pluto.* *Reports of Planetary Astronomy—1989 NASA Technical Memorandum 4120*, 161 (Abstract).
- MILLIS, R.L. (1990) *Occultation studies of the solar system. Reports of Planetary Astronomy—1990 NASA Technical Memorandum 4205*, 89–90 (Abstract).
- MILLIS, R.L., WASSERMAN, L.H., FRANZ, O.G., ELLIOT, J.L., BOSH, A.S., YOUNG, L.A., AND SLIVAN, S.M. (1993) *The size and bulk density of Pluto.* *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- MILLIS, R.L., WASSERMAN, L.H., FRANZ, O.G., ELLIOT, J.L., BOSH, A.S., YOUNG, L.A., AND SLIVAN, S.M. (1993) *The size and bulk density of Pluto.* *Bull. Amer. Astron. Soc.* **25**, 1137 (Abstract).
- MILLIS, R.L., WASSERMAN, L.H., FRANZ, O.G., NYE, R.A., ELLIOT, J.L., DUNHAM, E., BOSH, A.S., YOUNG, L.A., SLIVAN, S.M., GILMORE, A.C., KILMARTIN, P.M., ALLEN, W.H., WATSON, R.D., DIETERS, S.W., HILL, K.M., GILES, A.B., BLOW, G., PRIESTLEY, J., KISSLING, W.M., WALKER, W.S.G., MARINO, B.F., DIX, D.G., PAGE, A.A., ROSS, J.E., AVEY, H.P., HICKEY, H.D., KENNEDY, H.D., MOTTRAM, K.A., MOYLAND, G., MURPHY, T., DAHN, C.C., AND KLEMOLA, A.R. (1993) *Pluto’s radius and atmosphere: results from the entire 9 June 1988 occultation data set.* *Icarus* **105**, 282–297.
- MILLIS, R.L. (1998) *Dark worlds: Pluto and Charon.* (Book review) *Sky and Tel.* **95**, no. 6, 73–74.
- MILLIS, R.L., BINZEL, R.P., BURNS, J.A., CRUIKSHANK, D.P., MCKINNON, W.B., MEECH, K.J., STERN, S.A., AND SCHILLING, G. (1999) *Pluto’s planetary status.* *Science* **283**, 937 (Letter to editor).
- MILLS, A.C. AND MONTÉSI, L.G.J. (2019) *Elastic flexure around Sputnik Planitia, Pluto, and evidence for a very high heat flux.* *Lunar & Planetary Sci.* **50**, 1995 (Abstract).
- MILLS, A.C. AND MONTESI, L. (2018) *Determining the elastic thickness of Sputnik Planitia on Pluto and its surrounding using topography and inverse theory.* *AGU Fall Meeting Abstracts* **P31I**, 3832 (Abstract).

- MILLS, G.A. (1964) *Observations of Pluto*. *Jour. des Observateurs* **47**, 69–72.
- MILTSEIN, M. (1998) *Surfing the solar system*. *Air and Space* **12**, 54.
- MINARD, A. (2007) *Book Review: Pluto and beyond : a story of discovery, adversity, and ongoing exploration by D.A. Weintraub*, Princeton Univ. Press, Princeton, NJ. 254 pp. *Lunar and Planetary Information Bulletin* **110**, 24.
- MINER, E.D. (1988) *Questions & Answers*. *Planetary Report* **7**, no. 3, 20.
- MINER, E. (2001) *Caltech's Michael Brown wins Urey Prize*. *A.A.S. Newsletter* **105**, 16–17.
- MINEUR, H. (1930) *La trajectoire de l'Objet Lowell*. *L'Astronomie* **44**, 215–227.
- MINEUR, H. (1930) *L'orbite de l'objet Lowell*. *L'Astronomie* **44**, 325–328.
- MINEUR, H. (1930) *L'orbite de Pluton*. *L'Astronomie* **44**, 373–375.
- MINEUR, H. (1930) *Remarque à propos de la communication précédente*. *L'Astronomie* **44**, 494–495.
- MINEUR, H. (1930) *L'orbite de Pluton*. *L'Astronomie* **44**, 543–546.
- MINEUR, H., STOYKO, N., DE GRANDCHAMP, R., AND CANAVAGGIA, R. (1930) *Ephéméride de Pluton et positions des étoiles voisines pour la période du 15 août au 19 novembre 1930*. *Jour. des Observateurs* **13**, 105–107.
- MINEUR, H. (1931) *Un prévision de la distance de Pluton en 1919*. *L'Astronomie* **45**, 174–175.
- MINK, D.J. AND KLEMOLA, A. (1985) *Predicted occultations by Uranus, Neptune, and Pluto 1985–1990*. *Astron. Jour.* **90**, 1894–1899.
- MINK, D. (1986) *Occultations by Pluto*. *IAU Circular No. 4203*, 1.
- MINK, D. AND TEDESCO, E. (1986) *Occultations by Pluto and its satellite*. *IAU Circular No. 4206*, 3.
- MINK, D.J. AND KLEMOLA, A. (1988) *Occultations by Pluto and Charon: 1980–1990*. *Bull. Amer. Astron. Soc.* **20**, 881 (Abstract).
- MINK, D.J. (1989) *A search for stellar occultations by Uranus, Neptune, and Pluto and their satellites: 1990–1999*. *Reports of Planetary Astronomy—1989 NASA Technical Memorandum* **4120**, 95.
- MINK, D.J. AND BUIE, M.W. (1989) *Automated occultation predictions using the Space Telescope Guide Star Catalog*. *Bull. Amer. Astron. Soc.* **21**, 1010 (Abstract).
- MINK, D.J. AND KLEMOLA, A.R. (1989) *Occultations by Uranus, Neptune, and Pluto 1990–1999*. *Bull. Amer. Astron. Soc.* **21**, 919 (Abstract).
- MINK, D.J., KLEMOLA, A.R., AND BUIE, M.W. (1991) *Occultations by Pluto and Charon: 1990–1999*. *Astron. Jour.* **101**, 2255–2261.
- MINK, D.J. (1991) *A search for stellar occultations by Uranus, Neptune, Pluto, and their satellites: 1990–1999*. *Smithsonian Astrophysical Observatory Final Report, 1 Jan 1989–31 Dec 1990*???
- MINK, D.J. (1993) *Occultations by Pluto and Charon: 1993–2010*. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- MINOVITCH, M.A. (1968) “Gravity thrust and interplanetary transportation networks” In *Use of space systems for planetary geology and geophysics, Vol. 17, Space and Technology Series*, ed. E. Burgess (American Astronautical Society), pp. 507–540.
- MINOVITCH, M.A. (1994) *Fast missions to Pluto using Jupiter gravity-assist and small launch vehicles*. *Jour. Spacecraft and Rockets* **31**, no. 6, 1029–1037.
- MISQUERO, M. (2020) *The spin–spin model and the capture into the double synchronous resonance*. Submitted to ???, arXiv:2010.09354.
- MITANI, T. (1997) *Clyde Tombaugh and Pluto*. *Heavens* **78**, no. 4, 104–105.
- MINTON, D.A. AND HESSELBROCK, A. (2019) *Tidally-driven collapse of outer solar system binaries*. *Bull. Amer. Astron. Soc.* **51**, no. 5, 401.01 (Abstract).

- MOLYNEUX, P.M., DAVIS, M.W., RETHERFORD, K.D., AND PARKER, J.W. (2018) *Rosetta-Alice II: an upgraded UV spectrograph for a Rosetta-type mission. Proc. SPIE, Space telescopes and instrumentation 2018: ultraviolet to gamma ray* **10699**, 36.
- MOLNÁR, I. (1981) *200 years since the discovery of Uranus. Kozmos* **12**, 98–101.
- MONDAK, J. AND BENSON, J.M. (2008) *New physics and astronomy songs online. The Physics Teacher* **46**, 447.
- MONDT, J.F. (2000) “Advanced radioisotope power systems requirements for potential deep space missions.” Paper given at *35th Intersociety Energy Conversion Engineering Conference, Las Vegas, NV. AIAA paper #2000-2880*.
- MONTMERLE, T. (2019) *The IAU, from New Worlds to Exoworlds: recollections of a mandate. Under One Sky: The IAU Centenary Symposium. Proceedings of the International Astronomical Union* **349**, 90–111.
- MOOMAW, B. (1993) *Pluto Fast Flyby correction. Astronomy* **22**, 13.
- MOORE, J.M. AND SCHENK, P.M. (1999) *The “geology” of Pluto and Triton. Pluto and Triton: comparisons and evolution over time, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract)*.
- MOORE, J.M., SCHENK, P.M., PAPPALARDO, R.T., AND MCKINNON, W.B. (2003) “The “geology” of Pluto and Charon.” Paper given at *EGS – AGU – EUG Joint Assembly, 6–11 April 2003, Nice, France*7936.
- MOORE, J.M. (2007) *New Horizons at Jupiter: overview of results. AGU Fall Meeting Abstracts* **P53C**, 01 (Abstract).
- MOORE, J.M. (2014) *The surface composition investigation for Pluto and its moons from the New Horizons Mission. AGU Fall Meeting Abstracts* **P31E**, 04 (Abstract).
- MOORE, J.M., HOWARD, A.D., SCHENK, P.M., MCKINNON, J.B., PAPPALARDO, R.T., EWING, R.C., BIERHAUS, E.B., BRAY, V.J., SPENCER, J.R., BINZEL, R.P., BURATTI, B., GRUNDY, W.M., OLKIN, C.B., REITSEMA, H.J., REUTER, D.C., STERN, S.A., WEAVER, H., YOUNG, L.A., AND BEYER, R.A. (2015) *Geology before Pluto: pre-encounter considerations. Icarus* **246**, 65–81.
- MOORE, J.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND OLKIN, C.B. (2015) *Geology of Pluto and Charon overview. Bull. Amer. Astron. Soc.* **47**, 100.03 (Abstract).
- MOORE, J.M., HOWARD, A.D., WHITE, O.L., UMURHAN, O.M., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SINGER, K.N., SPENCER, J., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND OLKIN, C.B. (2015) *Processes modifying cratered terrains on Pluto. Bull. Amer. Astron. Soc.* **47**, 102.03 (Abstract).
- MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., HOWARD, A.D., SCHENK, P.M., BEYER, R.A., NIMMO, F., SINGER, K.N., UMURHAN, O.M., WHITE, O.L., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., CRUIKSHANK, D.P., GRUNDY, W.M., LINSOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., BRAY, V.J., CHAVEZ, C.L., HOWETT, C.J.A., LAUER, T.R., LISSE, C.M., PARKER, A.H., PORTER, S.B., ROBBINS, S.J., RUNYON, K., STRYK, T., THROOP, H.B., TSANG, C.C.C., VERBISCHER, A.J., ZANGARI, A.M., CHAIKIN, A.L., WILHELMS, D.E., AND NEW HORIZONS SCIENCE TEAM. (2016) *The geology of Pluto and Charon through the eyes of New Horizons. Science* **351**, no. 6279, 1284.
- MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS GGI TEAM. (2016) *The geology of Pluto and Charon as revealed by New Horizons. Geophys. Res. Abstracts* **18**, EGU2016–5162 (Abstract).

- MOORE, J.M., HOWARD, A.D., WHITE, O.L., UMURHAN, O.M., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SINGER, K.N., SPENCER, J.R., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., OLKIN, C.B., AND NEW HORIZONS GGI TEAM. (2016) *Sublimation as a landform-shaping process on Pluto*. *Lunar & Planetary Sci.* **47**, 1636 (Abstract).
- MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., SCHENK, P.M., BEYER, R., NIMMO, F., WHITE, O.L., SINGER, K.N., GRUNDY, W.M., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Geology of Pluto and Charon*. *Geological Soc. Amer. Annual Meeting* **2016**, 211-2 (Abstract).
- MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., HOWARD, A.D., GRUNDY, W.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND OLKIN, C. (2016) *Pluto is the new Mars!* *Geological Soc. Amer. Annual Meeting* **P3**, 211-6 (Abstract).
- MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., HOWARD, A.D., WHITE, O.M., UMURHAN, O.M., SCHENK, P.A., BEYER, R.A., SINGER, K., STERN, S.A., WEAVER, H.A., YOUNG, L.A., SMITH, K.E., OLKIN, C.B., AND NEW HIRIZONS GEOLOGY AND GEOPHYSICS IMAGING TEAM. (2016) *Geological mapping of Pluto and Charon using New Horizons data*. *International Archives of the Photogrammetry, Remote Sensing, and Spatial Information Sciences* **XLI-B4**, 449–451.
- MOORE, J.M., HOWARD, A.D., UMURHAN, O.M., WHITE, O., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SPENCER, J.R., SINGER, K.N., GRUNDY, W.M., NIMMO, F., YOUNG, L., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., COLLINS, G., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Bladed terrain on Pluto: possible origins and evolutions*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 109 (Abstract).
- MOORE, J.M., HOWARD, A.D., UMURHAN, O.M., WHITE, O.L., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SPENCER, J.R., SINGER, K.N., GRUNDY, EARLE, A.M., SCHMITT, B., PROTOPAPA, S., NIMMO, F., CRUIKSHANK, D.P., HINSON, D.P., TYOUNG, L.A., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., COLLINS, G., BERTRAND, T., FORGET, F., SCIPIONI, F., AND THE NEW HORIZONS SCIENCE TEAM. (2018) *Bladed terrain on Pluto: possible origins and evolution*. *Icarus* **300**, no. 1, 129–144.
- MOORE, J.M., HOWARD, A.D., UMURHAN, O.M., WHITE, O.L., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SPENCER, J.R., GRUNDY, W.M., LAUER, T.R., NIMMO, F., YOUNG, L.A., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS SCIENCE TEAM. (2017) *Sublimation as a landform-shaping process on Pluto*. *Icarus* **287**, 320–333 (Abstract).
- MOORE, J.M., SPENCER, J.R., MCKINNON, W.B. BEYER, R.A., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2017) *The geology of Charon as revealed by New Horizons*. *Asteroids, Comets, and Meteorites* **2017**, 130–131 (Abstract).
- MOORE, J.M., WHITE, O.L., HOWARD, A.D., UMURHAN, O.M., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SINGER, K.N., LAUER, T.R., CHENG, A.F., YOUNG, L., STERN, S.A., WEAVER, H.A., OLKIN, K., AND ENNICO, K. (2017) *Washboard terrain on Pluto*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 102.03 (Abstract).
- MOORE, J.M., MCKINNON, W.B., CRUIKSHANK, D.P., GLADSTONE, G.R., SPENCER, J.R., STERN, S.A., WEAVER, H.A., SINGER, K.N., SHOWALTER, M.R., GRUNDY, W.M., BEYER, R.A., WHITE, O.L., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F. HOWETT, C., OLKIN, C.B., PARKER, A.H., PORTER, S.B., SCHENK, P.M., THROOP, H.B., VERBISCHER, A.J., YOUNG, L.A., BENECCHI, S.D., BRAY, V.J., CHAVEZ, C.L., DHINGRA, R.D., HOWARD, A.D., LAUER, T.R., LISSE, C.M., ROBBINS, S.J., RUNYON, K.D., AND UMURHAN, O.M. (2018) *Great Expectations: plans and predictions for New Horizons Encounter with Kuiper Belt Object 2014 MU69 ('Ultima Thule')*. *Geophys. Res. Letters* **45**, no. 16, 8111–8120.

- MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., STERN, S.A., BINZEL, R.P., BRITT, D., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., KAVELAARS, J.J., LINSOTT, I.R., PORTER, S.B., REITSEMA, H.J., SCHENK, P.M., SHOWALTER, M.R., SINGER, K.N., YOUNG, L.A., ZANGARI, A.M., WEAVER, H.A., OLKIN, C.B., PARKER, J.W., VERBISCHER, A.J., BEDDINGFIELD, C., BEYER, R.A., BIERSON, C.J., BRAY, V.J., CHAIKIN, A., CHAVEZ, C.L., DHINGRA, R.D., EL-MAARRY, M.R., KEANE, J.T., HAMILTON, D.P., HOFGARTNER, J.D., KINCZYK, M., LAUER, T.R., LISSE, C.M., NIMMO, F., ROBBINS, S.J., RUNYON, K.D., STRYK, T., THROOP, H., UMURHAN, O.M., WHITE, O.L., AND NEW HORIZONS SCIENCE TEAM. (2019) *The geology of 2014 MU69 (“Ultima Thule”): initial results from the New Horizons encounter*. *Lunar & Planetary Sci.* **50**, 2152 (Abstract).
- MOORE, J.M., HOWARD, A.D., WHITE, O.L., UMURHAN, O.M., SINGER, K., AND SCHENK, P.M. (2020) *Are the surface textures of Pluto’s Wright Mons and its surroundings Exogenic?* *Bull. Amer. Astron. Soc.* **52**, no. 6, 105.05 (Abstract).
- MOORE, J.M., HOWARD, A.D., WHITE, O.L., UMURHAN, O.M., SINGER, K.N., AND SCHENK, P.M. (2021) *Are the surface textures of Pluto’s Wright Mons and its surroundings exogenic?* *Lunar & Planetary Sci.* **52**, 1693 (Abstract).
- MOORE, J.M., HOWARD, A.D., WHITE, O.L., UMURHAN, O.M., SINGER, K., AND SCHENK, P.M. (2022) *“Are the surface textures of Plutos Wright Mons and its surroundings exogenic?” Paper given at 16th Europlanet Science Congress 2022, 18–23 September 2022, Palacio de Congresos de Granada, Spain. EPSC2022-120.*
- MOORE, M.H., HUDSON, R.L., AND RAINES, L. (2009) *Laboratory studies of ethane ice relevant to outer solar system surfaces*. *Bull. Amer. Astron. Soc.* **41**, 2548 (Abstract).
- MOORE, M.H., HUDSON, R.L., AND GERAKINES, P.A. (2000) *IR identification of major products in laboratory processed ices relevant to Triton and Pluto*. *Bull. Amer. Astron. Soc.* **32**, 1107 (Abstract).
- MOORE, M.H., HUDSON, R.L., AND FERRANTE, R.F. (2001) *IR studies of irradiated N₂ ices containing CH₄ and CO: implications for Triton and Pluto*. *Bull. Amer. Astron. Soc.* **33**, 1154 (Abstract).
- MOORE, M.H. AND HUDSON, R.L. (2003) *Infrared study of ion-irradiated N₂-dominated ices relevant to implications for Triton and Pluto*. *Bull. Amer. Astron. Soc.* **33**, 1154.
- MOORE, M.H. AND HUDSON, R.L. (2003) *Infrared study of ion-irradiated N₂-dominated ices relevant to Triton and Pluto: formation of HCN and HNC*. *Icarus* **161**, 486–500.
- MOORE, M.H. AND HUDSON, R.L. (2003) *Radiation products in processed ices relevant to Edgeworth-Kuiper-Belt Objects*. *Earth, Moon, and Planets* **92**, 291–306.
- MOORE, M.H., HUDSON, R.L., AND FERRANTE, R.F. (2006) *IR studies of ammonia hydrates: effects of thermal and radiation processing*. *Bull. Amer. Astron. Soc.* **38**, 566–567 (Abstract).
- MOORE, P. (1978) *Stars + Pluto and asteroids*. *Omni* **1**, 165.
- MOORE, P. (1980) *Pluto appulse on 1980 April 6*. *IAU Circular No.* 3471.
- MOORE, P. (1980) *The golden year of the ninth planet: a report of the one-day Pluto conference at Las Cruces*. *Jour. Brit. Astron. Assoc.* **90**, 376–381.
- MOORE, P. (1980) *Underworld god*. *New Scientist* **85**, no. 1200, 1032 (Letter to editor).
- MOORE, P. (1981) *Some thoughts on Planet “X.”* *Jour. Brit. Astron. Assoc.* **91**, 483–487.
- MOORE, P. (1984) *Review article: Pluto*. *Jour. Brit. Astron. Assoc.* **94**, 223–224.
- MOORE, P. (1984) *The naming of Pluto*. *Sky and Tel.* **68**, 400–401.
- MOORE, P. (1987) *Charon: the frosty satellite*. *Astron. Now* **1**, no. 5, 41–42.
- MOORE, P. (1991) *Uranus, Neptune, and Pluto*. *Images of the Universe Conference* **Ed. C. Stott**, 63–76.
- MOORE, P. (1992) *Book Review: Clyde Tombaugh: discoverer of Planet Pluto*, by D.H. Levy Univ. of Arizona Press, Tucson. 211 pp. *The Observatory* **112**, 20.

- MOORE, P. (1998) *Book review: Pluto and Charon*. *New Scientist* **157**, no. 2115, 38.
- MOORE, P. (1998) *Worlds on the edge*. *New Scientist* **157**, no. 211538–39.
- MOORE, P. (2000) *Book review: Pluto and Charon: ice worlds on the ragged edge of the solar system*. *Endeavour* **24**, no. 2, 88.
- MOORE, R. (1990) *Landscapes on Pluto: improving computer-aided visualization*. *Catographic Jour.* **27**, no. 2, 132–136.
- MOORE, R.C. (2007) *Autonomous safeing and fault protection for the New Horizons mission to Pluto*. *Acta Astron.* **61**, 398–405.
- MOORE, R.C. (2006) “A” *Paper given at u, tonomous safeing and fault protection for the New Horizons mission to Pluto*. *57th International Astronautical Congress Vancouver, BC, IAC paper #04-S.1.09*.
- MOORES, J.E., SMITH, C.L., TOIGO, A.D., AND GUZEWICH, S.D. (2017) *Penitentes as the origin of the bladed terrain of Tartarus Dorsa on Pluto*. *Nature* **541**, no. 7636, 188–190.
- MOORES, J.E., SMITH, C.L., TOIGO, A.D., AND GUZEWICH, S.D. (2017) *Penitentes at Tartarus Dorsa, Pluto*. *Lunar & Planetary Sci.* **48**, 1664 (Abstract).
- MORALES, S.B., LE PICARD, S.D., CANOSA, A., AND SIMS, I.R. (2010) *Experimental measurements of low temperature rate coefficients for neutral-neutral reactions of interest for atmospheric chemistry of Titan, Pluto and Triton: Reactions of the CN radical*. *Faraday Discussions* **147**, 155.
- MORAN, S.E., HÖRST, S.M., HE, C., RADKE, M.J., SEBREE, J.A., IZENBERG, N.R., VUITTON, V., FLANDINET, L., ORTHOUS-DAUNAY, F.R., AND WOLTERS, C. (2022) *Triton haze analogs: the role of carbon monoxide in haze formation*. *Jour. Geophys. Res. Planets* **127**, no. 1, e06984.
- MORBIDELLI, A. (2004) *How Neptune pushed the boundaries of our solar system*. *Science* **306**, 1302–1304.
- MORBIDELLI, A. (2006) *Solar system: interplanetary kidnap*. *Nature* **441**, 162–163.
- MORBIDELLI, A. AND GRUNDY, W. (2019) *Introduction to Icarus special papers on trans-neptunian solar system*. *Icarus* **334**, 1–2.
- MORBIDELLI, A., NESVORNÝ, D., BOTTKÉ, W.F., AND MARCHI, S. (2021) *A re-assessment of the Kuiper belt size distribution for sub-kilometer objects, revealing collisional equilibrium at small sizes*. *Icarus* **356**, 114256.
- MORASH, D.H. AND STRAND, L. (1994) “*Miniature propulsion components for the Pluto Fast Flyby spacecraft*.” *Paper given at AIAA 30th Joint Propulsion Conference, Indianapolis, IN*.
- MORGAN, F., CONARD, S.J., WEAVER, H.A., BARNOUIN-JHA, O., CHENG, A.F., TAYLOR, H.W., COOPER, K.A., BARKHOUSER, R.H., BOUCARUT, R., DARLINGTON, E.H., GREY, M.P., KUZNETSOV, I., MADISON, T.J., QUIJADA, M.A., SAHNOW, D.J., AND STOCK, J.M. (2005) *Calibration of the New Horizons Long-Range Reconnaissance Imager*. *Proc. SPIE* **5906**, 421–432.
- MORGAN, J.A. (1980) *Book Review: Planets X and Pluto, by W.G. Hoyt The Observatory* **100**, 134–135.
- MORGAN, H.R. (1950) *Definitive positions and proper motions of primary reference stars for Pluto*. *Astron. Papers Amer. Eph. & Nautical Almanac* **XI**, Part III, 505–519.
- MORISON, A., LABROSSE, S., AND CHOBLET, G. (2021) *Sublimation-driven convection in Sputnik Planitia on Pluto*. *Nature* **600**, no. 7889, 419–423.
- MORISON, A., LABROSSE, A., AND CHOBLET, G. (2022) “*Sublimation driven convection in Sputnik Planitia on Pluto*.” *Paper given at 16th Europlanet Science Congress 2022, 18–23 September 2022, Palacio de Congresos de Granada, Spain*. EPSC2022-434.
- MORITZ, H. (2006) *Planetary turmoil*. *Sky and Tel.* **112**, no. 6, 12 (Letter to editor).
- MORRING, F. (2001) *Space scientists brace for decision on Pluto*. *Aviation Week & Space Technology* **154**, no. 23, 40.
- MORRING, F. (2002) *New budget leaves room for Pluto probe*. *Aviation Week & Space Technology* **156**, no. 7, 38–39.

- MORRING, F. (2002) *Scientists tap Pluto as top priority.* *Aviation Week & Space Technology* **157**, no. 3, 28.
- MORRISON, D. AND CRUIKSHANK, D.P. (1981) “The outer solar system—review of discoveries and properties of objects beyond Saturn.” In *The New Solar System* (Sky Publishing Corp., Cambridge, MA), 167–176; 217.
- MORRISON, D. (1981) *Book Review: The planet Pluto.* *Jour. Roy. Astron. Soc. Canada* **75**, 65.
- MORRISON, D. (1983) *Outer planet satellites.* *Rev. Geophys. Spa. Phys.* **21**, 151–159.
- MORRISON, D., CRUIKSHANK, D.P., AND BROWN, R.H. (1982) *Diameters of Triton and Pluto.* *Nature* **300**, 425–427.
- MORRISON, L.V., BUONTEMPO, M.E., FABRICIUS, C., AND HELMER, L. (1992) *First meridian circle observations of Pluto.* *Astron. Astrophys.* **262**, 347–349.
- MORRISON, D. (1992) *Planetary astronomy in the 1990’s.* *Sky and Tel.* **83**, no. 2, 151–156.
- MORRISON, L.V. AND BUONTEMPO, M.E. (1996) “Carlsberg optical astrometry of the outer solar system.” In *Dynamics, ephemerides, and astrometry of the solar system*, ed. Ferraz-Mello, S., Morando, B., and Arlot, J.-E. (Kluwer Academic Publishers, Boston), pp. 399–406.
- MORRISON, L.V. AND EVANS, D.W. (1998) *Check on JPL DE405 using modern optical observations.* *Astron. Astrophys. Supp.* **132**, 381–386.
- MORTON, R.J. AND KAISER, R.I. (2003) *Kinetics of suprathreshold hydrogen atom reactions with saturated hydrides in planetary and satellite atmospheres.* *Planetary and Spa. Sci.* **51**, 365–373 (Abstract).
- MORUZZI, S.A., ANDREWS-HANNA, J.C., AND SCHENK, P. (2021) *Constraining the compensation state, structure, and geophysical evolution of Sputnik Basin on Pluto.* *Lunar & Planetary Sci.* **52**, 2099 (Abstract).
- MORUZZI, S.A., ANDREWS-HANNA, J.C., SCHENK, P., JOHNSON, B.C., AND MCKINNON, W.B. (2022) *Pluto’s Sputnik Basin as a peak-ring basin: a comparative study.* *Lunar & Planetary Sci.* **53**, 2273 (Abstract).
- MOSELEY, T.J.C.A. (1969) *The magnitude of Pluto.* *Jour. Brit. Astron. Assoc.* **79**, 129.
- MOULLET, A. (2019) *A close look at an evolved debris disk — ALMA observations of Kuiper Belt Objects.* *Bull. Amer. Astron. Soc.* ?? (**233 AAS Meeting**), 305.05.
- MOULLET, A., LELLOUCH, E., GURWELL, M., NOLL, K., GRUNDY, W., MORENO, R., BUTLER, B., AND VERBISCHER, A. (2020) *Thermal mapping of large KBO systems: putting the equal albedo assumption to the test.* *Bull. Amer. Astron. Soc.* **52**, no. 6, 203.06 (Abstract).
- MOUNT, C.P. AND DESCH, S.J. (2016) *Thermal modeling of cryovolcanic vents on Charon: ascent vs. freezing timescales.* *Lunar & Planetary Sci.* **47**, 2682 (Abstract).
- MOUSIS, O., MOUDENS, A., LUNINE, J.I., PICAUD, S., THOMAS, C., AND WEAVER, H.A. (2010) *Incorporation of volatiles into clathrates on Pluto and Triton.* *EPSC Abstracts* **5**, 508 (Abstract).
- MOUSIS, O., LUNINE, J.I., MANDT, K.E., SCHINDHELM, E., WEAVER, H.A., STERN, S.A., WAITE, J.H., GLADSTONE, R., AND MOUDENS, A. (2013) *On the possible noble gas deficiency of Pluto’s atmosphere.* *Lunar & Planetary Sci.* **44**, 1385 (Abstract).
- MOUSIS, O., LUNINE, J.I., MANDT, K.E., SCHINDHELM, E., WEAVER, H.A., STERN, S.A., HUNTER WAITE, J., GLADSTONE, R., AND MOUDENS, A. (2013) *On the possible noble gas deficiency of Pluto’s atmosphere.* *Icarus* **225**, 856–861.
- MUCKE, H. (1978) *Pluto-mond bestätigt, Herculina-mond vermutet.* *Sternenbote* **21**, 134–139.
- MUELLER, J., PAJER, G., AND PALUSZEK, M. (2013) *Integrated communications and optical navigation systems.* *Progress in Flight Dynamics, GNS, and Avionics* **6**, 81–96.

- MUÑOZ, J.L., BELIZÓN, F., VALLEJO, M., MALLAMACI, C.C., PÉREZ, J.A., MARMOLEJO, L.F., NAVARRO, J.L., AND SEDEÑO, J.A. (2003) “CCD observations of Pluto, Neptune, and Triton with the San Fernando automatic meridian circle.” In *Astronomy in Latin America, Second Meeting on Astrometry in Latin America and Third Brazilian Meeting on Fundamental Astronomy, held 2-5 September, 2002.*, ed. Ed. R. Teixeira, N.V. Leister, V.A.F. Martin, and P. Benevides-Soares. ADELA Publications Series, vol. 1, no. 1, 2003 (77–84), pp. .
- MURDEN, J. (1964) Pluto observation; Venus observation. *The Astronomer* **1**, E16.
- MŪKINS, E. (1981) Portrait of Pluto in 1980. *Zvaigžņotā debess* **1981**, 13–14.
- MULHOLLAND, J.D. (1968) Precession effects of new planetary masses used in JPL ephemeris development. *Astron. Jour. Supp.* **73**, 194.
- MULHOLLAND, J.D., SHELUS, P.J., JEFFERYS, W.H., AND BENEDICT, G.F. (1979) “Outer planet satellites” In *Natural and artificial satellite motion*, ed. P.E. Nacozy and S. Ferraz-Mello (U. Texas Press, Austin, TX), pp. 41–48.
- MULHOLLAND, J.D. AND SHELUS, P.J. (1978) 1978 P1. *IAU Circular No.* 3255.
- MULHOLLAND, J.D. (1978) Pluto’s neighbor (Letter to editor). *Science* **201**, 867.
- MULHOLLAND, J.D. (1982) Pluto: The ice planet with the oversized moon. *Science* **82**, 64–68.
- MULHOLLAND, J.D. AND BINZEL, R.P. (1982) Photometry of Pluto during the 1982 opposition. *Bull. Amer. Astron. Soc.* **14**, 658 (Abstract).
- MULHOLLAND, J.D. (1982) Outer planet satellite studies. NASA Grant NGR 44-012-282, Final Report May 1982 8 pp..
- MULHOLLAND, J.D. AND BINZEL, R.P. (1983) Pluto and 1978 P1. *IAU Circular No.* 3829, 2.
- MULHOLLAND, J.D. AND BINZEL, R.P. (1984) Eclipse phenomena in the Pluto–Charon system. *Astron. Jour.* **89**, 882–888.
- MULHOLLAND, J.D. AND GUSTAFSON, B.Å.S. (1986) Pluto eclipses of and by Charon must be unequal. *Bull. Amer. Astron. Soc.* **18**, 821 (Abstract).
- MULHOLLAND, J.D. AND GUSTAFSON, B.Å.S. (1987) Pluto eclipses of and by Charon must be unequal. *Astron. Astrophys.* **171**, L5–L7.
- MÜLLER, T.G., LELLOUCH, E., BÖHNHARDT, H., STANSBERRY, J., BARUCCI, A., CROVISIER, J., DELSANTI, A., DORESSOUNDIRAM, A., DOTTO, E., DUFFARD, R., FORNASIER, S., GROUSSIN, O., GUTIÉRREZ, P.J., HAINAUT, O., HARRIS, A.W., HARTOGH, P., HESTROFFER, D., HORNER, J., JEWITT, D., KIDGER, M., KISS, C., LACERDA, P., LARA, L., LIM, T., MUELLER, M., MORENO, R., ORTIZ, J.L., RENGEL, M., SANTOS-SANZ, P., SWINYARD, B., THOMAS, N., THIROUIN, A., AND TRILLING, D. (2009) TNOs are cool: a survey of the Transneptunian region. *Earth, Moon, and Planets* **92**, 209–219.
- MULTHAUP, K. AND SPOHN, T. (2007) Medium-sized icy satellites in the outer solar system — differentiation due to radiogenic heating in Charon or the moons of Uranus? *EPSC Abstracts* **2**, 659 (Abstract).
- MUMPUNI, E.S., RACHMAN, A., KUMIAWAN, M.R., RAYHAN, M., AND BULLOCK, M.A. (2023) Preliminary report on Pluto Stellar Occultation 2022–Jun–01 UT observed from Timau National Observatory. *AIP Conference Proceedings* **2941**, 040025.
- MÜNCH, W. (1931) Sonstige photometrische arbeiten. *Vierteljahrsschrift der Astronomischen Gesellschaft* **66**, 266.
- MÜNDLER, M. (1931) Beobachtungen von Pluto. *Astron. Nachr.* **242**, 225.
- MUÑOZ-GUTIÉRREZ, M.A., PEIMBERT, A., PICHARDO, B., LEHNER, M.J., AND WANG, S.Y. (2016) The Las Cumbres Observatory (LCOGT) Network for NEO and Solar System Science. *AAS Meeting* **27**, 430.03 (Abstract).

- MUÑOZ-GUTIÉRREZ, M.A., PEIMBERT, A., PICHARDO, B., LEHNER, M.J., AND WANG, S.Y. (2019) *The Las Cumbres Observatory (LCOGT) Network for NEO and Solar System Science*. *Bull. Amer. Astron. Soc.* **47**, 308.16 (Abstract).
- MUÑOZ-GUTIÉRREZ, M.A., PEIMBERT, A., PICHARDO, B., LEHNER, M.J., AND WANG, S.Y. (2019) *The contribution of dwarf planets to the origin of Jupiter family comets*. *Astron. Jour.* **158**, no. 5, 184.
- MURCHIE, S.L. (1990) *The tectonics of icy satellites*. *Adv. Spa. Res.* **10**, 173–182.
- MURDIN, P. (2000) “Pluto–Kuiper Express.” In *Encyclopedia of Astronomy and Astrophysics*, ed. P. Murdin (Bristol, Institute of Physics Publishing), pp. 4736.
- MURISON, M. (2001) *Wisdom to receive the 2002 Brouwer*. *A.A.S. Newsletter* **105**, 15–16.
- MURRAY, K., HOLLER, B.J., AND GRUNDY, W. (2018) *Search for a Pluto-like satellite system around Eris*. *Bull. Amer. Astron. Soc.* **50**, 311.08. (Abstract).
- MURRAY, N. AND HOLMAN, M. (1999) *The origin of chaos in the outer solar system*. *Science* **283**, 1877–1881.
- MURRAY, R.W. (1999) *Pluto’s place*. *Planetary Report* **19**, no. 4, 3 (Letter to editor).
- MURRAY-CLAY, R.A. AND CHIANG, E.I. (2006) *Brownian Motion in planetary migration*. *Astrophys. Jour.* **651**, 1194–1208.
- MUTCHLER, M.J., STEFFL, A.J., WEAVER, H.A., STERN, S.A., BUIE, M.W., MERLINE, W. J., SPENCER, J.R., YOUND, E.F., AND YOUNG, L.A. (2006) *S/2005 P1 and S/2005 P2*. *IAU Circular No. 8676*.
- MUTCHLER, M.J., STEFFL, A.J., WEAVER, H.A., STERN, S.A., BUIE, M.W., MERLINE, W.J., SPENCER, J.R., YOUNG, E.F., AND YOUNG, L.A. (2006) *The discovery of two new satellites of Pluto*. *Bull. Amer. Astron. Soc.* **38**, 423 (Abstract).
- MUTCHLER, M.J., STERN, S.A., WEAVER, H.A., AND STEFFL, A.J. (2006) *The B – V colors and photometric variability of Nix and Hydra, Pluto’s two small satellites*. *Bull. Amer. Astron. Soc.* **38**, 542 (Abstract).
- NACOZY, P.E. AND DIEHL, R.E. (1973) *The motion of Pluto as a modified periodic orbit of the third kind*. *Bull. Amer. Astron. Soc.* **5**, 362 (Abstract).
- NACOZY, P.E. AND DIEHL, R.E. (1974) *A semi-analytical theory of the secular perturbations of Pluto*. *Bull. Amer. Astron. Soc.* **6**, 205 (Abstract).
- NACOZY, P.E. AND DIEHL, R.E. (1974) *On the long-term motion of Pluto*. *Cel. Mech.* **8**, 445–454.
- NACOZY, P.E. AND DIEHL, R.E. (1975) *A semi-analytical, long-term solution of Pluto, including the Neptune and Uranus resonance*. *Bull. Amer. Astron. Soc.* **7**, 341–342 (Abstract).
- NACOZY, P.E. AND DIEHL, R.E. (1978) *A semi-analytical theory for the long-term motion of Pluto*. *Astron. Jour.* **83**, 522–530.
- NACOZY, P.E. AND DIEHL, R.E. (1978) *A discussion of the solution for the motion of Pluto*. *Cel. Mech.* **17**, 405–421.
- NACOZY, P. (1980) *A review of the motion of Pluto*. *Cel. Mech.* **22**, 19–23.
- NADEAU, A. AND JASCHKE, E. (2019) *In energy balance model of Pluto*. *Icarus* **330**, 15–25.
- NADIS, S. (1991) *The man who saved Pluto*. *Jour. Irreproducible Results* **36**, no. 1, 22–24.
- NADIS, S. (1994) *Seasons at the edge of the solar system*. *Omni* **16**, no. 8, 28–29.
- NADIS, S. (2000) *Pluto fragments may be collision relics*. *Astronomy* **28**, no. 1, 26.
- NAEYE, R. AND TALCOTT, R. (1998) *Ask Astro*. *Astronomy* **26**, no. 7, 34–35.
- NAEYE, R. (1999) *Is Pluto still a planet?* *Astronomy* **27**, no. 5, 96.
- NAEYE, R. (2002) *I’ll never see Pluto*. *Mercury* **31**, no. 3, 4.

- NAGA PARAMESWARA GUPTA, S. (2010) “Dynamic Universe Model predicts the trajectory of New Horizons satellite going to Pluto.....” Paper given at 38th COSPAR Scientific Assembly, 18-15 July 2010, Bremen, Germany. Abstract B03-0041-10, 2 pp..
- NAGA PARAMESWARA GUPTA, S. (2012) “Dynamic Universe Model predicts the trajectory of New Horizons satellite going to Pluto.....” Paper given at 39th COSPAR Scientific Assembly, 14-22 July 2012, Mysore, India. Abstract H0.2-10-12, p.1314.
- NAGY, I., SÜLI, Á., AND ÉRDI, B. (2006) A stability study of Pluto’s moon system. *Mon. Not. Roy. Astron. Soc.* **370**, L19–L23.
- NAGY, I., SÜLI, Á., AND ÉRDI, B. (2006) Pluto’s moon system: survey of the phase space I. Submitted to *arXiv:astro-ph/0602543*
- NAGY, I., SÜLI, Á., AND ÉRDI, B. (2006) P-type orbits in the Pluto–Charon system. *Padeu* **17**, 71–78.
- NAKAI, H. (1985) Mean elements of Pluto. *Tokyo Astron. Obs. Reprint* **20**, 461–470.
- NAKAI, H., AND KINOSHITA, H. (1994) “Stability of the orbit of Pluto.” In *Proceedings of the Twenty-Sixth Symposium on Celestial Mechanics*, ed. Nakai, H., and Kinoshita, H. (Tokyo), pp. 133.
- NAKAI, H., AND KINOSHITA, H. (1995) “Simulation of the outer planets system.” In *Proceedings of the Twenty-Seventh Symposium on Celestial Mechanics*, ed. Nakai, H., and Kinoshita, H. (Tokyo), pp. 1–9.
- NAKAJIMA, M., ATKINS, J., SIMON, J.B., AND QUILLEN, A.C. (2024) The limited role of the streaming instability during moon and exomoon formation. *Planetary Sci. Jour.* **5**, 145.
- NAKAMURA, R., SUMIKAWA, S., ISHIGURO, M., MUKAI, T., IWAMURO, F., TERADA, H., MOTOHARA, K., GOTO, M., HATA, R., TAGUCHI, T., HARASHIMA, T., KAIFU, N., HAYASHI, M., AND MAIHARA, T. (2000) Subaru infrared spectroscopy of the Pluto–Charon system. *Pub. Astron. Soc. Japan* **52**, 551–556.
- NAMBA, O. (1980) Pluto en Charon nu. *Zenit* **7**, 52–55.
- NAMBA, O. (1989) Zomer op Pluto. *Zenit* **16**, 351–356.
- NAPIER, K.J., LIN, H.W., GERDES, D.W., ADAMS, F.C., SIMPSON, A.M., PORTER, M.W., WEBER, K.G., MARKWARDT, L., GOWMAN, G., SMOTHERMAN, H., BERNARDINELLI, P.H., JURIC, M., CONNOLLY, A.J., KALMBACH, J.B., PORTILLO, S.K.N., TRILLING, D.E., STRAUSS, R., OLDROYD, W.J., TRUJILLO, C.A., CHANDLER, C.O., HOLMAN, M.J., SCHLICHTING, H.E., AND MCNEILL, A. (2024) The DECam Ecliptic Exploration Project (DEEP). V. The Absolute Magnitude distribution of the Cold Classical Kuiper Belt. *Planetary Sci. Jour.* **5**, no. 2, 50.
- NASEEM, M., NEVEU, M., HOWELL, S., LESAGE, E., DASWANI, M.M., AND VANCE, S.D. (Salt distribution from freezing intrusions in ice shells on ocean worlds: application to Europa.) 2023 *Planetary Sci. Jour.* **4**, no. 9, 181.
- NATH, A. (2006) Pas pot pour Pluton (plus pleinement planete). *Orion* **64**, no. 6, 18–21.
- NATH, A. (2007) Plutonise! *Orion* **65**, no. 340, 32.
- NATHAN, E., HUBER, C., AND HEAD, J. (2020) Tilted blocks as a window to the evolution of Charon. *Lunar & Planetary Sci.* **51**, 1558 (Abstract).
- NAUMENKO, B.N., NEIMAN, V.B., CHERNOV, V.M., AND SHAPIRO, B.V. (1982) On Transputonian planets in the solar system. *Astron. Tsirk.* 1217.
- NEÉL, R. (1980) Conjonction de Pluton et d’une étoile brillante. *l’Astronomie* **94**, 535–536.
- NEFF, J.S., LANE, W.A., AND FIX, J.D. (1974) An investigation of the rotational period of the planet Pluto. *Pub. Astron. Soc. Pacific* **86**, 225–230.
- NELSON, D.S., PELLETIER, F.J., BUIE, M.W., BAUMAN, J.A., FISCHETTI, J.T., GUO, Y., GWYN, S.D.J., HOLDRIDGE, M.E., KAVELAARS, J.J., LESSAC-CHENEN, E.J., OLKIN, C.B., PELGRIFT, J.Y., PORTER, S.B., ROGERS, G.D., SALINAS, M.J., SPENCER, J.R., STANBRIDGE, D.R., STERN, S.A., WEAVER, H.A., WILLIAMS, B.G., AND WILLIAMS, K.E. (2022) Navigation and orbit estimation for New Horizons’ Arrokoth flyby: overview, results and lessons learned. *Spa. Sci. Rev.* **218**, no. 3, 11.

- NESVORNÝ, D., ROIG, F., AND FERRAZ-MELLO, S. (2000) *Close approaches of trans-Neptunian objects to Pluto have left observable signatures on their orbital distribution.* *Astron. Jour.* **119**, 953–969.
- NESVORNÝ, D. AND ROIG, F. (2000) *Mean motion resonances in the trans-Neptunian region: 1. The 2:3 resonance with Neptune.* *Icarus* **148**, 282–300.
- NESVORNÝ, D. AND ROIG, F. (2001) *Mean motion resonances in the trans-Neptunian region: 2. The 1:2, 3:4, and weaker resonances.* *Icarus* **150**, 104–123.
- NESVORNÝ, D. (2017) *Dynamical effects of planetary instability and migration on the Asteroid and Kuiper Belts.* *Asteroids, Comets, and Meteorites* **2017**, 303 (Abstract).
- NESVORNÝ, D. AND VOKROUHLICKÝ, D. (2019) *Binary survival in the outer solar system.* *Icarus* **331**, 49–61.
- NESVORNÝ, D., RIXIN, L., SIMON, J.B., YODIN, A.N., RICHARDSON, D.C., MARCHALL, R., AND GRUNDY, W.M. (2021) *Binary planetesimal formation from gravitationally collapsing pebble clouds.* *Planetary Sci. Jour.* **2**, ,27.
- NESVORNÝ, D., DONES, L., DE PRÁ, M., WOMACK, M., AND ZAHNLE, K.J. (2023) *Impact rates in the outer solar system.* *Planetary Sci. Jour.* **4**, no. 8, 139.
- NEUBERT, G. (1990) *Verhält sich Pluto chaotisch?* *Physik in unserer Zeit* **21**, no. 1, 41–42.
- NEUFELD, M.J. (2014) *First mission to Pluto: policy, politics, science, and technology in the origins of New Horizons.* *Historical Studies in the Natural Sciences* **44**, no. 3, 234–276.
- NEUFELD, M.J. (2016) *The difficult birth of NASA’s Pluto mission.* *Physics Today* **69**, no. 4, 40–47.
- NEUFELD, M.J. (2016) *The difficult birth of NASA’s Pluto mission.* *Bull. Amer. Astron. Soc.* **48**, no. 7, 171 (Abstract).
- NEVEU, M., DESCH, S.J., SHOCK, E.L., AND GLEIN, C.R. (2015) *Prerequisites for explosive cryovolcanism on dwarf planet-class Kuiper belt objects.* *Icarus* **246**, 48–68.
- NEVEU, M., CANUP, R.M., AND KRATTER, K.M. (2019) *On the origin of the Pluto system.* *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7027 (Abstract).
- NEVIN, M., DESCH, S.J., AND CASTILLO-ROGEZ, J.C. (2015) *Geophysics and geochemistry intertwined: modeling the internal evolution of Ceres, Pluto, and Charon.* *Bull. Amer. Astron. Soc.* **47**, 103.10 (Abstract).
- NEWBURN, JR., R.L., McDONALD, W.S., GASTEIGER, R.L., AND EISENMAN, A.R. (1970) *Why go to the outer planets?* *Astronautics and Aeronautics* **8**, no. 9, 39–44.
- NEWBURN, R.L. AND GULKIS, S. (1971) *A brief survey of the outer planets Jupiter, Saturn, Uranus, Neptune, and Pluto, and their satellites.* *JPL Technical Report* 32-1529.
- NEWBURN, JR., R.L. AND GULKIS, S. (1973) *A survey of the outer planets Jupiter, Saturn, Uranus, Neptune, and Pluto, and their satellites.* *Spa. Sci. Rev.* **14**, 179–271.
- NEWBURN, JR., R.L. (1977) *Pluto.* *Astronomy* **5**, no. 2, 18–24.
- NEWMAN, C., DINIEGA, S., EWING, R., BANFIELD, D.J., BURR, D.M., FENTON, L.K., GOUGH, R.V., JACKSON, B., SOTO, A., SULLIVAN, JR., R.J., AND SWANN, C. (2019) *The Next-Generation Planetary Aeolian and Meteorological Investigation (PAMI) mission concept.* *AGU Fall Meeting Abstracts* **P33D**, 14 (Abstract).
- NGOH, M.A., KHANNA, R.K., AND FOX, K. (1993) *Temperature dependence of ν_3 and ν_4 bandwidths and complex refractive indices for crystalline methane.* *Jour. Geophys. Res.* **98**, 5511–5515.
- NGUYEN, C., ZEMCOV, M., COORAY, A., LISSE, C., AND POPPE, A. (2018) *The science and prospects of astrophysical observations with New Horizons.* *Bull. Amer. Astron. Soc.* **50**, no. 2, 153.07 (Abstract).
- NICHOLS, R.G. (1993) *Destination Pluto.* *Final Frontier* **6**, no. 2, 42–47.
- NICHOLSON, P.D. AND GLADMAN, B.J. (2006) *Satellite searches at Pluto and Mars.* *Icarus* **181**, 218–222.

- NICHOLSON, S.B. AND MAYALL, N.U. (1930) *Pluto*. *Harvard College Observatory Announcement Card* **34**, June 16.
- NICHOLSON, S.B. AND MAYALL, N.U. (1930) *The probable value of the mass of Pluto*. *Pub. Astron. Soc. Pacific* **42**, 350–351.
- NICHOLSON, S.B. AND MAYALL, N.U. (1931) *Note on the mass of Pluto*. *Pub. Astron. Soc. Pacific* **43**, 74–75.
- NICHOLSON, S.B. AND MAYALL, N.U. (1931) *Positions, orbit and mass of Pluto*. *Astrophys. Jour.* **73**, 1–12.
- NICHOLSON, S.B. AND MAYALL, N.U. (1931) *Positions, orbit and mass of Pluto*. *Contr. Mt. Wilson Obs. #417* **18**, 455–466.
- NICHOLSON, S.B. AND MAYALL, N.U. (1933) *The orbit and mass of Pluto*. *Pub. Amer. Astron. Soc.* **7**, 11 (Abstract).
- NICHOLSON, S.B. AND MAYALL, N.U. (1931) *Position, orbit, and mass of Pluto*. *Astrophys. Jour.* **73**, 1–12.
- NICOLAOU, G., MCCOMAS, D.J., BAGENAL, F., AND ELLIOTT, H.A. (2012) *Fluid properties of plasma ions in the distant Jovian magnetotail plasma using Solar Wind Around Pluto (SWAP) data on New Horizons*. *AGU Fall Meeting Abstracts SM51A*, 2297 (Abstract).
- NICOLAOU, G., MCCOMAS, D.J., BAGENAL, F., AND ELLIOTT, H.A. (2013) *Fluid properties of the distant Jovian magnetotail plasma using New Horizons Solar Wind Around Pluto (SWAP) instrument's observations*. *AGU Fall Meeting Abstracts SM210A*, 2149 (Abstract).
- NICOLAOU, G., MCCOMAS, D.J., BAGENAL, F., AND ELLIOTT, H.A. (2014) *Properties of plasma ions in the distant Jovian magnetosheath using Solar Wind Around Pluto data on New Horizons*. *Jour. Geophys. Res.* **119**, 3463–3479.
- NICOLSON, I. (1997) *Distant giants and tiny Pluto*. *Astron. Now* **11**, no. 6, 28–29.
- NIEHOFF, J.C. (1966) *Gravity-assisted trajectories to solar-system targets*. *Jour. Spacecraft and Rockets* **3**, no. 9, 1351–1356.
- NIELSEN, H. (1979) *Pluto afsløret som dobbeltplanet!* *Astron. Tidsskr.* **12**, 12–16.
- NIETO, M.M. (2006) *The quest to understand the Pioneer anomaly*. *Europhysics News* **37**, no. 6, 30–34.
- NIETO, M.M. (2008) *New Horizons and the onset of the Pioneer anomaly*. *Physics Lett. B* **659**, no. 3, 483–485.
- NIIMI, Y. (1994) “Orbital analysis of Pluto.” In *Proceedings of the Twenty-Sixth Symposium on Celestial Mechanics*, ed. H. Kinoshita and H. Nakai (Tokyo), pp. 119–122.
- NIMMO, F. AND SPENCER, J.R. (2015) *Powering Triton's recent geological activity by obliquity tides: implications for Pluto geology*. *Icarus* **246**, 2–10.
- NIMMO, F., MCKINNON, W.B., MOORE, J.M., SCHENK, P.M., ROBERTS, J.H., BEYER, R., BIERSON, C.J., STERN, S.A., OLKIN, C., LISSE, C.M., AND UMURHAN, O. (2016) *Geophysics of the Pluto system*. *Geological Soc. Amer. Annual Meeting P3*, 211-4 (Abstract).
- NIMMO, F., BIERSON, C., HAMILTON, D.P., MOORE, J.M., MCKINNON, W.B., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS GGI TEAM. (2016) *Loading, relaxation, and tidal wander at Sputnik Planum, Pluto*. *Lunar & Planetary Sci.* **47**, 2207 (Abstract).
- NIMMO, F., HAMILTON, D.P., MCKINNON, W.B., SCHENK, P.M., BINZEL, R.P., BIERSON, C.J., BEYER, R.A., MOORE, J.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., SMITH, K.E., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING THEME TEAM. (2016) *Reorientation of Sputnik Planitia implies a subsurface ocean on Pluto*. *Nature* **540**, .

- NIMMO, F., UMURHAN, O., LISSE, C.M., BIERSON, C.J., LAUER, T.R., BUIE, M.W., THROOP, H.B., KAMMER, A.J., ROBERTS, J.H., MCKINNON, W.B., ZANGARI, A.M., MOORE, J.M., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K. (2017) Mean radius and shape of Pluto and Charon from New Horizons images. *Icarus* **287**, 12–29.
- NIMMO, F. AND MCKINNON, W.B. (2019) *Geodynamics of Pluto. Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7013 (Abstract).
- NIENSON, P., GOODY, R., APT, J., AND PAPALIOLOS, C. (1983) Speckle imaging for planetary research. *Icarus* **53**, 465–478.
- NNA MVONDO, D., ANDERSON, C.M., AND SAMUELSON, R.E. (2018) The SPECTRAL ice chamber: A NASA-GSFC experimental setup to study the formation processes, the chemistry and optical properties of planetary nitrile-containing organic ices. *AGU Fall Meeting Abstracts* **P53F**, 3045 (Abstract).
- NNA-MVONDO, D., TOBIE, G., LE MENN, E., AND GRASSET, O. (2021) Quantitative study of methane-nitrogen mixed clathrates using gas chromatography and Raman spectroscopy for their detection in icy surfaces of the outer solar system. *Icarus* **358**, 114182.
- NOBILI, A.M. (1988) Synthetic secular theories of the planetary orbits: regular and chaotic behavior. *Cel. Mech.* **45**, 293–304.
- NOBILI, A.M. AND BURNS, J.A. (1989) Solar system chaos (Letter to editor). *Science* **244**, 1425.
- NOBILI, A.M., MILANI, A., AND CARPINO, M. (1989) Fundamental frequencies and small divisors in the orbits of the outer planets. *Astron. Astrophys.* **210**, 313–336.
- NOBLE, R.J. (1999) Radioisotope electric propulsion of spacecraft to the outer Solar System and near-interstellar space. *Acta Astron.* **44**, 193–199.
- NOBLE, M.W., CONARD, S.J., WEAVER, H.A., HAYES, J.R., AND CHENG, A.F. (2009) In-flight performance of the Long Range Reconnaissance Imager (LORRI) on the New Horizons Mission. *Proc. SPIE* **7441**, 74410Y (Abstract).
- NOLAN, M.C. AND LUNINE, J.I. (1993) Volatile loss from an early massive atmosphere on Pluto. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- NÖLKE, F. (1931) Der Planet Pluto und die Entwicklung des Sonnensystems. *Astron. Nachr.* **241**, 27.
- NOLL, K.S., GRUNDY, W.M., LEVISON, H.F., AND STEPHENS, D.C. (2006) The relative sizes of Kuiper Belt binaries. *Bull. Amer. Astron. Soc.* **38**, 546 (Abstract).
- NOLL, K., GRUNDY, W.M., NESVORNÝ, D., AND THIROUIN, A. (2020) “Trans-Neptunian binaries (2018).” In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds. Elsevier), 201–224.
- NORMAN, S. (1970) Planetary trajectory handbooks for mission analysis. *Jour. Spacecraft and Rockets* **7**, no. 4, 497–498.
- NØRNBERG, P., FINSTER, K., THØGERSEN, J., GOLBEK, T.W., WEIDNER, T., HASSENKAM, T., GOETZ, W., OEHLKE, M., KNAK JENSEN., AND S.J. (2022) Methane as a reddish coating agent. *Icarus* **382**, 115023.
- NØRNBERG, P. AND KNAK JENSEN, S. (2022) “A model for the reddish patches seen on Triton, Pluto and Charon.” Paper given at 16th Europlanet Science Congress 2022, 18–23 September 2022, Palacio de Congresos de Granada, Spain. EPSC2022-332.
- NORTHCOTT, R.J. (1956) Period of rotation of Pluto. In “Notes and Queries,” *Jour. Roy. Astron. Soc. Canada* **50**, 189.
- NULL, G.W. (1989) “Hubble Space Telescope observations of Pluto.” Paper given at *Pluto at Perihelion*, JPL, Sept. 25.
- NULL, G., OWEN, JR., W.M., AND SYNNOTT, S.P. (1992) Masses and densities of Pluto and Charon determined from HST observation. *Bull. Amer. Astron. Soc.* **24**, 962 (Abstract).

- NULL, G.W., OWEN, JR., W.M., AND SYNNOTT, S.P. (1993) *Masses and densities of Pluto and Charon.* *Astron. Jour.* **105**, 2319–2335.
- NULL, G.W., OWEN, JR., W.M., AND SYNNOTT, S.P. (1993) *Masses and densities of Pluto and Charon.* *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- NULL, G.W. AND OWEN, JR., W.M. (1994) *Pluto/Charon mass ratio determined from HST observations in 1991–93.* *Bull. Amer. Astron. Soc.* **26**, 1169 (Abstract).
- NULL, G.W. AND OWEN, JR., W.M. (1996) *Charon/Pluto mass ratio obtained with HST CCD observations in 1991 and 1993.* *Astron. Jour.* **111**, 1368–1381.
- OAKES, A. (2011) *News Notes: Orbiter captures possible salt-water flows on Mars; Juno to meet up with Jupiter in mid-2016; Silicate volcanoes confirmed on “dark side” of Moon; Fourth satellite discovered around Pluto; Pioneer anomaly solved?; Canada partners on Japanese X-ray space observatory.* *Jour. Roy. Astron. Soc. Canada* **105**, 183–186.
- O'BRIEN, J.A., SINGER, K.N., WEAVER, H.A., EMST, C.M., SPENCER, J.R., STERN, S.A. PEACHEY, J., STEELE, R.J., PORTER, S.B., MCKINNON, W.B., SCHENK, P.M., MAO, X., KEANE, J.T., WHITE, O.L., GRUNDY, W.M., MOORE, J.M., LAUER, T.R., VERBISCHER, A.J., PARKER, J.W., AND OLKIN, C.B. (2021) *Crater statistics of Arrokoth and Pluto's small moons with comparison to other inner and outer solar system bodies using the Small Body Mapping Tool (SBMT).* *Bull. Amer. Astron. Soc.* **53**, 111.01 (Abstract).
- ODOM, P.R. (1971) “An analysis of the bi-injection mode for outer planet missions.” Paper given at *American Astronautical Society and American Institute of Aeronautics and Astronautics Specialists Conference, Ft. Lauderdale, Fla. August 17–19.*
- O'CONNOR, D.J., ANUSKIEWICZ, J., BRAHIC, A., DUMAS, C. GRAVES, J.E., NORTHCOTT, M., OWEN, T., RODDIER, C., AND RODDIER, F. (1995) *Near-infrared observations of Pluto and Charon using adaptive optics imaging.* *Bull. Amer. Astron. Soc.* **27**, 1101.
- O'HARA, S. AND DOMBARD, J. (2018) *Downhill sledding at 40 AU: mobilizing Pluto's chaotic mountain blocks.* *Lunar & Planetary Sci.* **49**, 1360 (Abstract).
- O'HARA, S.T. AND DOMBARD, A.J. (2021) *Downhill sledding at 40 AU: Mobilizing Pluto's chaotic mountain blocks.* *Icarus* **356**, 113829.
- O'HORA, N. (1984) *Naming of Pluto.* *Jour. Brit. Astron. Assoc.* **95**, 37 Letter to editor).
- O'LEARY, B. (1972) *Frequencies of occultations of stars by planets, satellites, and Asteroids.* *Science* **175**, no. 4026, 1108–1112.
- OESTERWINTER, C. AND COHEN, C.J. (1968) *A modern solution for orbits of major planets and Moon.* *Astron. Jour.* **73**, 195 (Abstract).
- OLESON, S.R., PATTERSON, M.J., SCHREIBER, J., AND GEFERT, L.P. (2001) “Pluto/Kuiper missions with advanced electric propulsion and power.” Paper given at *Forum on Innovative Approaches to Outer Planetary Exploration, 21–22 February, Houston, TX, abstract no. 4103.*
- OLESON, S., BENSON, S., GEFERT, L., PATTERSON, M., AND SCHREIBER, J. (2002) “Radioisotope Electric Propulsion for fast outer planetary orbiters.” Paper given at *38th AIAA/SAE/ASME/ASEE Joint Propulsion Conference, Indianapolis, IN, July 07-10, 2002. AIAA paper #2002-3967.*
- OLIVER, J.M. (1991) *Plutón en oposición. El planeta más anómalo.* *Astrum* **101**, 4–12.
- OLKIN, C.B., YOUNG, L.A., ELLIOT, J.L., THOLEN, D.J., AND BUIE, M.W. (1993) *Individual lightcurves of Pluto and Charon.* *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- OLKIN, C.B., COOK, J.C., LOVERING, J., LUNSFORD, A., NEW HORIZONS SCIENCE TEAM. (2008) *New Horizons: past and future flybys.* *Asteroids, Comets, and Meteorites* **2008**, 8352 (Abstract).
- OLKIN, C.B., McDONALD, S.W., AND ELLIOT, J.L. (1993) *Pluto.* *IAU Circular No. 5872, 1.*
- OLKIN, C.B., ELLIOT, J.L., BUS, S.J., McDONALD, S.W., AND DAHN, C.C. (1996) *Astrometry of single-chord occultations: application to the 1993 Triton event.* *Pub. Astron. Soc. Pacific* **108**, 202–210.

- OLKIN, C.B., YOUNG, L.A., ELLIOT, J.L., THOLEN, D.J., AND BUIE, M.W. (1993) *Individual light curves of Pluto and Charon*. *Bull. Amer. Astron. Soc.* **25**, 1132–1133 (Abstract).
- OLKIN, C.B., WASSERMAN, L.H., AND FRANZ, O.G. (2003) *The mass ratio of Charon to Pluto from Hubble Space Telescope astrometry with the Fine Guidance Sensors*. *Bull. Amer. Astron. Soc.* **34**, 1041 (Abstract).
- OLKIN, C.B., WASSERMAN, L.H., AND FRANZ, O.G. (2003) *The mass ratio of Charon to Pluto from Hubble Space Telescope Astrometry with the Fine Guidance Sensors*. *Icarus* **164**, 254–259.
- OLKIN, C.B., REUTER, D., LUNSFORD, A., BINZEL, R.P., AND STERN, S.A. (2004) *The New Horizons distant flyby of asteroid 2002 JF56*. *Bull. Amer. Astron. Soc.* **38**, 597.
- OLKIN, C.B., YOUNG, E.F., GRUNDY, W.M., AND YOUNG, L.A. (2004) *Pluto spectra from 2.8–3.7 μ m*. *Bull. Amer. Astron. Soc.* **36**, 1087 (Abstract).
- OLKIN, C.B., YOUNG, E.F., YOUNG, L.A., GRUNDY, W., AND SCHMITT, B. (2005) *Evidence of tholins on Pluto’s surface from near-IR and IR spectroscopy*. *Bull. Amer. Astron. Soc.* **37**, 743 (Abstract).
- OLKIN, C.B., YOUNG, L., YOUNG, E.F., HOWELL, R.R., RAMM, D., REGESTER, J., RUHLAND, C.R., BLOW, G., BROUGHTON, J., BUIE, M.W., FRENCH, R.G., GAULT, D., GILES, B., GREENHILL, J., NATUSH, T., AND SHOEMAKER, K. (2007) *Results of the Pluto occultation of July 31 2007*. *Bull. Amer. Astron. Soc.* **39**, 520 (Abstract).
- OLKIN, C.B., YOUNG, E.F., YOUNG, L.A., GRUNDY, W., SCHMITT, B., ROUSH, T., AND TERADA, H. (2007) *Pluto’s spectrum from 1.0 to 4.2 μ m: implications for surface properties*. *Astron. Jour.* **133**, 420–431.
- OLKIN, C.B., YOUNG, L.A., FRENCH, R.G., BUIE, M.W., AND YOUNG, E.F. (2011) *Investigating Pluto’s lower atmosphere from a central-flash stellar occultation*. *EPSC Abstracts* **6**, 334 (Abstract).
- OLKIN, C.B., YOUNG, L.A., BORNCAMP, D., PICKLES, A., SICARDY, B., ASSAFIN, M., BIANCO, F. B., BUIE, M., COLAS, F., DIAS DE OLIVEIRA, A., GILLON, M., FRENCH, R.G., GOMES, A.R., JEHIN, E., MORALES, N., OPITOM, C., ORTIZ, J. L., MAURY, A., NORBURY, M., RIBAS, F.B., SMITH, R., WASSERMAN, L. H., YOUNG, E.F., ZACHARIAS, M., AND ZACHARIAS, N. (2013) *The May 4, 2013 stellar occultation by Pluto and implications for Pluto’s atmosphere*. *Bull. Amer. Astron. Soc.* **45**, 404.02 (Abstract).
- OLKIN, C., GRUNDY, W.M., STERN, S.A., WEAVER, JR., H.A., YOUNG, L.A., ENNICO SMITH, K., BINZEL, R.P., CRUIKSHANK, D.P., JENNINGS, D.E., PARKER, J.W., REUTER, D., AND SPENCER, J.R. (2014) *The surface composition investigation for Pluto and its moons from the New Horizons Mission*. *AGU Fall Meeting Abstracts* **P31E**, 05 (Abstract).
- OLKIN, C.B., YOUNG, L., YOUNG, E., BUIE, M., FRENCH, R., HOWELL, R., REGESTER, J., AND RUHLAND, C. (2009) *Pluto’s increasing atmospheric pressure*. *Bull. Amer. Astron. Soc.* **41**, 6.07 (Abstract).
- OLKIN, C., SPENCER, J.R., GRUNDY, W.M., PARKER, A., BEYER, R.A., REUTER, D., SCHENK, P.M., STERN, S.A., WEAVER, H.A., YOUNG, L., ENNICO, K., BINZEL, R.P., BUIE, M.W., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A., HOWETT, C., JENNINGS, D.E., SINGER, K.N., LINSKOTT, I., LUNSFORD, A., PROTOPAPA, D., SCHMITT, B., AND WEIGLE, E. (2017) *The color of Pluto from New Horizons*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 221.02 (Abstract).
- OLKIN, J. (2013) *A database of optical constants for ices and non-ices expected on Pluto and its satellites*. *Bull. Amer. Astron. Soc.* **45**, 310.05 (Abstract).
- OLKIN, C.B., YOUNG, L.A., FRENCH, R.G., YOUNG, E.F., BUIE, M.W., HOWELL, R.R., REGESTER, J., RUHLAND, C.R., NATUSCH, T., AND RAMM, D.J. (2014) *Pluto’s atmospheric structure from the July 2007 stellar occultation*. *Icarus* **239**, 15–22.

- OLKIN, C.B., YOUNG, L.A., FRENCH, R.G., YOUNG, E.F., BUIE, M.W., HOWELL, R.R., REGESTER, J., RUHLAND, C.R. NATUSCH, T., RAMM, D.J., GILES, A.B., AND GREENHILL, J.G. (2016) *Corrigendum to: Pluto's atmospheric structure from the July 2007 stellar occultation. Icarus* **269**, 122.
- OLKIN, C.B., YOUNG, L.A., BORNCAMP, D., PICKLES, A., SICARDY, B., ASSAFIN, M., BIANCO, F.B., BUIE, M.W., DE OLIVEIRA, A. DIAS, GILLON, M., FRENCH, R.G., RAMOS GOMES, A., JEHIN, E., MORALES, N., OPITOM, C., ORTIZ, J.L., MAURY, A., NORBURY, M., BRAGA-RIBAS, F., SMITH, R., WASSERMAN, L.H., YOUNG, E.F., ZACHARIAS, M., AND ZACHARIAS, N. (2015) *Evidence that Pluto's atmosphere does not collapse from occultations including the 2013 May 04 event. Icarus* **246**, 220–225.
- OLKIN, C.B., REUTER, D.C., STERN, S.A., HOWETT, C.J.A., PARKER, A.H., ENNICO, K., SINGER, K.N., GRUNDY, W.M., WEAVER, H.A., YOUNG, L.A., BINZEL, R.P., BUIE, M.W., COOK, J.C., CRUIKSHANK, D.P., DALLER ORE, C.M., EARLE, A.M., JENNINGS, D.E., LINSKOTT, I.R., LUNSFORD, A.W., PARKER, J.W., PROTOPAPA, S., SPENCER, J.R., TSANG, C.C.C., AND VERBISCHER, A.J. (2015) *Color variations on Pluto, Charon & among Pluto's small satellites. Bull. Amer. Astron. Soc.* **47**, 101.01 (Abstract).
- OLKIN, C. (2016) *Our new view of Pluto. Physics World* **29**, no. 7, 40–43.
- OLKIN, C.B., STERN, S.A., REUTER, D.C., GRUNDY, W.M., PROTOPAPA, S., SCHMITT, B., PHILIPPE, S., EARLE, A.M., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., ENNICO, K., WEAVER, H.A., AND YOUNG, L.A. (P3) *Surface compositions of Pluto and Charon. Geological Soc. Amer. Annual Meeting P3*, 211-3 (Abstract).
- OLKIN, C.B., REUTER, D.C., STERN, S.A., YOUNG, L., WEAVER, H.A., ENNICO, K., BINZEL, R., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., GRUNDY, W.M., HOWETT, C., PARKER, A., PROTOPAPA, S., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., PHILIPPE, S., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *The color and surface composition of mountains on Pluto. Bull. Amer. Astron. Soc.* **48**, no. 7, 162 (Abstract).
- OLKIN, C.B., ENNICO, K., AND SPENCER, J. (2017) *The Pluto system after the New Horizons flyby. Nature Astronomy* **1**, 663–670.
- OLKIN, C.B., SPENCER, J.R., GRUNDY, W.M., PARKER, A.H., BEYER, R.A., SCHENK, P.M., HOWETT, C.J.A., STERN, S.A., REUTER, D.C., WEAVER, H.A., YOUNG, L.A., ENNICO, K., BINZEL, R.P., BUIE, M.W., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., JENNINGS, D.E., SINGER, K.N., LINSKOTT, I.E., LUNSFORD, A.W., PROTOPAPA, S., SCHMITT, B., WEIGLE, E., AND THE NEW HORIZONS SCIENCE TEAM. (2017) *The global color of Pluto from New Horizons. Astron. Jour.* **154**, no. 6, 258.
- OLKIN, C.B., MOORE, J.M., STERN, A., GRUNDY, W., SPENCER, J., MCKINNON, W.B., CRUIKSHANK, D., GLADSTONE, G.R., WHITE, O.L., UMURHAN, O., BEYER, R.A., SINGER, K.N., SCHENK, P.M., AND WEAVER, H.A. (2018) *Great Expectations: anticipating results from the first Encounter with a Cold Classical Kuiper Belt Object. Bull. Amer. Astron. Soc.* **50**, 509.05 (Abstract).
- OLKIN, C.B., HOWETT, C.J.A., PROTOPAPA, S., GRUNDY, W.M., BUIE, M.W., VERBISCHER, A., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2019) *The colors and photometric properties of Pluto. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7045 (Abstract).*
- OLKIN, C., STERN, S.A., SPENCER, J., WEAVER, H., HOWETT, C., PARKER, A., GRUNDY, W., AND PROTOPAPA, S. (2019) *The color of 2014 MU₆₉ from New Horizons. ESPC–DPS Joint Meeting* **13**, 6300 (Abstract).
- OLKIN, C., STERN, S.A., WEAVER, H.A., SPENCER, J., AND MCKINNON, W.B. (2019) *Results from the New Horizons encounter with 2014 MU₆₉ and what they tell us about planetary formation. Bull. Amer. Astron. Soc.* **51**, no. 6, 21 (Abstract).

- OLSSON-STEEL, D.I. (1988) *Results of close encounters between Pluto and Neptune.* *Astron. Astrophys.* **195**, 327–330.
- ONDRASIK, V.J., HILDEBRAND, C.E., AND RANSFORD, G.A. (1972) *Preliminary evaluation of radio data orbit determination capabilities for the Saturn portion of a Jupiter-Saturn-Pluto 1977 mission.* *The Deep Space Network Progress Report TR 32–1526*, May and June 1972, 59–75. (Abstract).
- ONDRASIK, V.J., HILDEBRAND, C.E., AND RANSFORD, G.A. (1972) *Preliminary evaluation of radio data orbit determination capabilities for the Saturn portion of a Jupiter-Saturn-Pluto 1977 mission.* *The Deep Space Network Progress Report TR 32–1526*, May and June 1972, 76–81. (Abstract).
- O’NEILL, I. (2019) *Space News: Kuiper Belt flyby confirms asteroid art.* *Mercury* **48**, no. 1, 7.
- O’MEARA, S.J. (1991) *Observing at the limit.* *Sky and Tel.* **82**, no. 4, 423–428.
- O’MEARA, S.J. (2006) *Charon’s canal.* *Sky and Tel.* **111**, no. 3, 64.
- ÖPIK, E.J. (1951) *The discovery of Pluto.* *Irish Astron. Jour.* **1**, 219–220.
- ÖPIK, E.J. (1951) *The diameter of Pluto.* *Irish Astron. Jour.* **1**, 247.
- ÖPIK, E.J. (1955) *Period of rotation of Pluto.* *Irish Astron. Jour.* **3**, 255.
- ÖPIK, E.J. (1955) *Pluto’s riddle.* *Irish Astron. Jour.* **3**, 256.
- ÖPIK, E.J. (1967) *Diameter of Pluto.* *Irish Astron. Jour.* **8**, 34–35.
- ÖPIK, E.J. (1970) *News and Comments: Pluto in resonance with Neptune.* *Irish Astron. Jour.* **9**, 290–291.
- ÖPIK, E.J. (1970) *News and Comments: commensurability problems, Pluto and Neptune.* *Irish Astron. Jour.* **9**, 290.
- ÖPIK, E.J. (1971) *Comet families and transneptunian planets.* *Irish Astron. Jour.* **10**, 35–92.
- ÖPIK, E.J. (1978) *NEWS and COMMENTS: Charon, the Remarkable Satellite of Pluto; Origin by Fission and the Mass of Charon; Astronomy and the News Media; Large Numbers not so Large at all; Colonization of Space; Ufomania; Germs from Space?; Creation and Evolution.* *Irish Astron. Jour.* **13**, 198–209.
- ORBOCK, J.D., FRAME, W.W., DELAMERRE, W.A., AND REITSEMA, H.J. (1994) *An integrated CCD focal plane for a Pluto Fast Flyby Mission.* *Proc. SPIE* **2267**, 66–75.
- ORTIZ, J.L., SICARDY, B., COMARGO, J.I.B., SANTOS-SANZ, P., AND BRAGA-RIBAS, F. (2020) *“Stellar occultation by TNOs: from predictions to observations.”* In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antonietta Barucci, and Leslie Young, eds.), 413–437.
- ORTIZ, J.L., SICARDY, B., CAMARGO, J.I.B., SANTOS-SANZ, P., AND BRAGA-RIBAS, F. (2019) *“Surface properties of large TNOs: expanding the study to longer wavelengths with the James Webb Space Telescope.”* In *The Transneptunian Solar System* (Dina Prialnik, Maria Antonietta Barucci, Leslie Young, eds., Elsevier Press.), ???.
- ORTOLANI, S. (1986) *“CCD observations of Pluto.”* In *Proc. Conf. on the Solid Bodies of the Outer Solar System*, ed. N. Longdon (Volcano, Italy (ESA SP-242)), pp. 125–126.
- ORTON, GLENN S., YANAMANDRA-FISHER, P.A., BAINES, K.H., MOMARY, T., MOUSIS, O., VANZI, L., HAYWARD, T., DEBUIZER, J., SIMON-MILLER, A., BJORAKER, G., FLETCHER, L., EDKINS, E., JOELS, J., KEMERER, J., AND PARRISH, P. (2007) *Observations of Jupiter supporting the New Horizons encounter and during a period of “global upheaval.”* *Bull. Amer. Astron. Soc.* **39**, 407 (Abstract).
- ORTON, G., BAINES, K., YANAMANDRA-FISHER, P., MOUSIS, O., VANZI, L., HAYWARD, T., DE BUIZER, J., SIMON-MILLER, A., BJORAKER, G., FLETCHER, L., GLADSTONE, R., EDKINS, E., KEMERER, J., SITKO, M., AND LYNCH, D. (2007) *Observations of Jupiter supporting the New Horizons encounter and during a period of “global upheaval.”* *AGU Fall Meeting Abstracts P53C*, 03 (Abstract).

- ORTON, G., YANAMANDRA-FISHER, P., BAINES, K., MOUSIS, O., VANZI, L., HAYWARD, T., DE BUIZER, J., SIMON-MILLER, A., BJORAKER, G., FLETCHER, L., EDKINS, E., AND KEMERER, J. (2007) Observations of Jupiter supporting the New Horizons encounter and at the onset of a period of "global upheaval." *EPSC Abstracts* **2**, 611 (Abstract).
- ORY, M., PEDROCCHI, F., AND SCHEDER, T. (2003) *Pluto Observations [185 Vicques]*. *Minor Planet Circular* 49276, 1.
- OSTERBROCK, D.E. (1997) George Van Biesbroeck: classical dynamical astronomer of binary stars, comets asteroids, planets, and satellites. *Bull. Amer. Astron. Soc.* **29**, 1097 (Abstract).
- OSTERBROCK, D.E. (2002) Walter Baade, dynamical astronomer at Goettingen, Hamburg, Mount Wilson, and Palomar Observatories. *Bull. Amer. Astron. Soc.* **33**, 940 (Abstract).
- OSTRO, S.J. (1987) Book Review: *Satellites*. (J.A. Burns and M.S. Matthews, eds. Univ. of Arizona Press, Tucson, 1986) 1021 pp. \$55.00. *Icarus* **72**, 651–653.
- OSZKIEWICZ, D.A., GRUNDY, W., BUIE, M.W., BINZEL, R.P., WEAVER, H.A., SPENCER, J.R., AND STERN, S.A. (2016) Spectroscopy of Pluto and Charon with HST during the encounter year. *Bull. Amer. Astron. Soc.* **48**, no. 7, 146 (Abstract).
- OTTMAN, G.K. AND HERSMAN, C.B. (2006) "The Pluto-New Horizons RTG and power system early mission performance." Paper given at 4th International Energy Conversion Engineering Conference, San Diego, CA. AIAA paper #2006-4029.
- OVERY, R.D. AND SADLER, G.G. (2021) Radioisotope power for scientific exploration. *Lunar & Planetary Sci.* **52**, 2770 (Abstract).
- OWEN, T. (1976) "Chemical abundances of the giant planets and their satellites" In *Chemical evolution of the giant planets* (NY, Academic Press), 49–58.
- OWEN, T. (1978) Abundances of isotopes in planetary atmospheres. *Moon and the Planets* **19**, 297–303.
- OWEN, T. (1985) "A brief history of the solar system. 2. The organization of matter in the solar system" In *Formation of planetary systems*, ed. A. Brahic (CNES, Toulouse, France), pp. 590–595.
- OWEN, T. (1984) A constraint on Pluto's origin. *Bull. Amer. Astron. Soc.* **16**, 651 (Abstract).
- OWEN, T. (1985) "The atmospheres of icy bodies in the outer solar system" In *Ices in the Solar System*, ed. J. Klinger, D. Benest, A. Dollfus, and R. Smoluchowski (D. Reidel Publishing Co., Dordrecht), pp. 731–740.
- OWEN, T.C. (1985) "Pluto, Triton and Titan: three small bodies with atmospheres." In *Observations and physical properties of small solar system bodies, Proceedings of the 30th Liège International Astrophysical Colloquium*, ed. A. Brahic, J.-C. Gerard, and J. Surdej (Universite de Liège Institut d'Astrophysique, Liège), pp. 151–152.
- OWEN, T. (1987) The origin of planetary atmospheres. *Adv. Spa. Res.* **19**, 1287.
- OWEN, T., GEBALLE, T., DE BERGH, C., YOUNG, L., ELLIOT, J., AND CRUIKSHANK, D. (1992) *Pluto*. IAU Circular No. 5532, 2.
- OWEN, T.C. (1994) The search for other planets: clues from the solar system. *Astrophys. Spa. Sci.* **212**, 1–11.
- OWEN, T., GEBALLE, T., DE BERGH, C., YOUNG, L. ELLIOT, J., CRUIKSHANK, D., ROUSH, T., SCHMITT, B., BROWN, R.H., AND GREEN, J. (1992) Detection of nitrogen and carbon monoxide on the surface of Pluto. *Bull. Amer. Astron. Soc.* **24**, 961 (Abstract).
- OWEN, T.C., CRUIKSHANK, D.P., ROUSH, T.L., GEBALLE, T.R., DEBERGH, C., BROWN, R.H., ELLIOT, J.L., YOUNG, L.A., SCHMITT, B., AND BARTHOLOMEW, M.J. (1993) The infrared spectrum of Pluto in 1993, 1.2–2.5 μ m. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- OWEN, T.C., CRUIKSHANK, D.P., DEBERGH, C., GEBALLE, T.R., ROUSH, T., BARTHOLOMEW, M.J., SCHMITT, B., BROWN, R.H., ELLIOT, J.L., YOUNG, L.A., AND DOUTÉ, S. (1993) New spectra of Pluto in the 1.25–2.5 μ m range. *Bull. Amer. Astron. Soc.* **25**, 1128 (Abstract).

- OWEN, T., ROUSH, T., CRUIKSHANK, D.P., ELLIOT, J.L., YOUNG, L.A., DEBERGH, C., SCHMITT, B., GEBALLE, T.R., BROWN, R.H., AND BARTHOLOMEW, M.J. (1993) *Surface ices and the atmospheric composition of Pluto*. *Science* **261**, 745–748.
- OWEN, T. (1994) *The search for other planets: clues from the solar system*. *Astrophys. Spa. Sci.* **212**, 1–11.
- OWEN, T. (1997) *The origin of planetary atmospheres*. *Adv. Spa. Sci.* **19**, 1287 (Abstract).
- OWEN, P. AND MEEUS, J. (1999) *When Pluto becomes the ninth planet. (Letter to editor.)* *Jour. Brit. Astron. Assoc.* **109**, 40–41.
- OWEN, JR., W.M. (2003) *Pluto Observations [673 Table Mountain Observatory]*. *Minor Planet Circular* 49424, 1.
- OWEN, JR., W.M. (2005) *Pluto Observations [673 Table Mountain Observatory, Wrightwood]*. *Minor Planet Circular* 54344, 2.
- OWEN, JR., W.M. (2006) *Pluto Observations [673 Table Mountain Observatory, Wrightwood]*. *Minor Planet Circular* 56794.
- OWEN, JR., W.M., TRAN, T., WULKE, F.I., BASU, P., AND YOUNG, U. (2006) *Pluto Observations [673 Table Mountain Observatory, Wrightwood]*. *Minor Planet Circular* 57111.
- OWEN, JR., W.M., TRAN, T., WULKE, F.I., BASU, P., AND YOUNG, U. (2006) *Pluto Observations [673 Table Mountain Observatory, Wrightwood]*. *Minor Planet Circular* 57417.
- PAETZOLD, MARTIN, ANDERT, T.P., TYLER, G., BIRD, M.K., HINSON, D.P., AND LINSOTT, I.R. (2013) *Mass determination of Pluto and Charon from New Horizon REX Radio Science observations*. *Bull. Amer. Astron. Soc.* **45**, 310.06 (Abstract).
- PAGANOTTI, A., SANTOS, A.L.M., ROCHA, V.S., AND VOELZKE, M.R. (2019) *Conceptions of students entrants of a physics course on planets and dwarf planets in solar system: a case study*. *Bull. Astron. Soc. Brazil* **31**, no. 1, 171–178.
- PAGANOTTI, A., VOELZKE, M.R., SANTOS, A.L.M., AND ROSÁRIO, J.P. (2019) *Conceptions from students of the public schools of Minas Gerais about planets and dwarf planets in solar system*. *Brazilian Jour. of Development* **5**, no. 6, 7211-7225.
- PAGE, A.A., AND MITROPOULOS, P. (1988) *Occultation by Pluto*. *IAU Circular No.* 4612.
- PÄHTZ, T. AND DURÁN, O. (2016) *Transport-threshold model suggests sand transport by wind on Triton, Pluto, and 67P/C-G*. Submitted to [arXiv:1602.07079v4.pdf](https://arxiv.org/abs/1602.07079v4)
- PÄHTZ, T., DURÁN, O., AND COMOLA, F. (2022) *Scaling and phase diagrams of planetary sediment transport*. Submitted to [arXiv:2203.00562](https://arxiv.org/abs/2203.00562)
- PAIGE, D.A. (2013) *Modeling the thermal stability of volatiles from Mercury to Pluto and beyond (Invited)*. *AGU Fall Meeting Abstracts P52A*, 02 (Abstract).
- PAKULL, M. AND REINSCH, K. (1986) *New light on the binary planet Pluto–Charon*. *ESO Messenger* **46**, 3–6.
- PALLUCONI, F.D. (1971) *The planets Uranus, Neptune, and Pluto*. *NASA SP-8103*.
- PALMER, L. (1974) *Pluto ephemeris, 1900–2000; daily positions (Washington, DC, Am. Fed. of Astrologers)*, QB701.P34 pp.
- PALOQUE, E. (1931) *Positions obtenues au grand Télescope Gautier de la l’Observatoire de Toulouse*. *Jour. des Observateurs* **14**, 83.
- PALUMBO, M.E. (1997) *Production of CO and CO₂ after ion irradiation of ices*. *Adv. Space Res.* **20**, no. 8, 1637-1645.
- PANEK, R. (1999) *Pinpointing Pluto*. *Natural History* **108**, no. 8, 18.
- PAPPALARDO, R.T. AND COLLINS, G.C. (1999) *Stress patterns on Pluto and Charon due to their mutual orbital evolution. Pluto and Triton: comparisons and evolution over time, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract)*.

- PARASKEVOPOULOS, J.S. (1930) *Note on South African photographs of Pluto*. *Pop. Astron.* **38**, 416.
- PARK, R.S. (2012) *Astrodynamics Aerospace America* **50**, no. 11, 17.
- PARK, R.S., FOLKNER, W.M., WILLIAMS, J.G., AND BOGGS, D.H. (2021) *The JPL Planetary and Lunar Ephemerides DE440 and DE441*. *Astron. Jour.* **161**, no. 3, 105.
- PARKER, A., BUIE, M., OSIP, D., GWYN, S., HOLMAN, M., BORNCAMP, D., SPENCER, J., BENECCHI, S., BINZEL, R., DEMEO, F., FABBRO, S., FUENTES, C., GAY, P., KAVELAARS, J., MCLEOD, B., PETIT, J., SHEPPARD, S., STERN, A., THOLEN, D., TRILLING, D., RAGOZZINE, D., WASSERMAN, L., AND HUNTERS, ICE (2012) *Discovery and characterization of an L5 Neptune Trojan in the search for a New Horizons encounter candidate*. *Bull. Amer. Astron. Soc.* **44**, 402.06 (Abstract).
- PARKER, A.H. AND KAVELAARS, J.J. (2012) *Collisional evolution of ultra-wide trans-Neptunian binaries*. *Astron. Jour.* **744**, no. 2, 139.
- PARKER, A.H., BUIE, M.W., OSIP, D.J., GWYN, S.D.J., HOLMAN, M.J., BORNCAMP, D.M., SPENCER, J.R., BENECCHI, S.D., BINZEL, R.P., DEMEO, F.E., FABBRO, S., FUENTES, C.I., GAY, P.L., KAVELAARS, J.J., MCLEOD, B.A., PETIT, J.-M., SHEPPARD, S.S., STERN, S.A., THOLEN, D.J., TRILLING, D.E., RAGOZZINE, D.A., WASSERMAN, L.H., AND ICE HUNTERS, THE (2013) *2011 HM₁₀₂: discovery of a high-inclination L5 Neptune Trojan in the search for a post-Pluto New Horizons target*. *Astron. Jour.* **145**, 96–111.
- PARKER, A.H., BUIE, M., SPENCER, J., FRASER, W., PORTER, S.B., WEAVER, H., STERN, S.A., BENECCHI, S., ZANGARI, A.M., VERBISCHER, A., GWYN, S., PETIT, J.-M., STERNER, R., BORNCAMP, D., NOLL, K., KAVELAARS, J.J., THOLEN, D., SINGER, K.N., SHOWALTER, M., FUENTES, C., BERNSTEIN, G., BINZEL, R.P., AND BELTON, M. (2015) *Updating the Kuiper Belt Luminosity Function with the HST search for a New Horizons post-Pluto target*. *Lunar & Planetary Sci.* **46**, 2614 (Abstract).
- PARKER, A.H., SPENCER, J., BENECCHI, S., BINZEL, R., BORNCAMP, D., BUIE, M., FUENTES, C., GWYN, S., KAVELAARS, J.J., NOLL, K., PETIT, J.M., PORTER, S., SHOWALTER, M., STERN, S.A., STERNER, R., THOLEN, D.J., VERBISCHER, A., WEAVER, H., AND ZANGARI, A. (2015) *Into the Kuiper Belt: New Horizons post-Pluto*. *Bull. Amer. Astron. Soc.* **47**, 203.09 (Abstract).
- PARKER, A.H., BUIE, M.W., ZANGARI, A.M., STERN, S.A., SPENCER, J.R., VERBISCHER, A.J., PORTER, S.B., AND BENECCHI, S. (2017) *Multiplicity of the New Horizons Extended Mission Target (486958) 2014 MU69*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 504.04 (Abstract).
- PARKER, A.H., WEAVER, H.A., PORTER, S.B., VERBISCHER, A.J., SPENCER, J.R., BUIE, M.W., ZANGARI, A.M., STERN, S.A., OLKIN, C.B., PARKER, J.W., AND NEW HORIZONS TEAM. (2019) *The search for rings and binary companions of Kuiper Belt Objects by New Horizons*. *Lunar & Planetary Sci.* **50**, 3130 (Abstract).
- PARKER, J., STERN, A., PROTOPAPA, S., OLKIN, C., SPENCER, J., VERBISCHER, A., WEAVER, H., YOUNG, L.A., AND ENNICO, K. (2018) *Ultraviolet reflectance of Charon*. *Bull. Amer. Astron. Soc.* **50**, 502.09 (Abstract).
- PARKER, A.H. (2020) “*Trans-Neptunian space and the post-Pluto paradigm*.” In *The Pluto System After New Horizons*, eds. (Tucson: Univ. Arizona Press), pp. Stern, S.A., Moore, J.M., Grundy, W.M., Young, L.A., and
- PARKS, J. (2023) *Will Pluto and Neptune ever collide?* *Astronomy* **51**, no. 2, 55.
- PARSONS, J. AND WAND, Y. (2008) *A question of class*. *Nature* **455**, 1040–1041.
- PASACHOFF, J.M., ELLIOT, J.L., BABCOCK, B.A., TICEHURST, D.R., THOLEN, D.J., AND PERSON, M.J. (2002) *High-time-resolution white-light observations of Pluto’s occultation of P131.1 in 2002 August*. *Bull. Amer. Astron. Soc.* **34**, 1211 (Abstract).
- PASACHOFF, J.M. AND ELLIOT, J.L. (2004) *Fascinating Pluto*. *Physics Today* **57**, no. 9, 18 (Letter to editor). ■
- PASACHOFF, J.M., SOUZA, S.P., BABCOCK, B.A., BRYCE, A., TICEHURST, D.R., ELLIOT, J.L., PERSON, M.J., CLANCY, K.B., ROBERTS, JR., L.C., HALL, D.T., AND THOLEN, D.J. (2005) *The structure of Pluto’s atmosphere from the 2002 August 21 stellar occultation*. *Astron. Jour.* **129**, 1718–1723.

- PASACHOFF, J.M., BABCOCK, B.A., SOUZA, S.P., GANGESTAD, J.W., JASKOT, A.E., ELLIOT, J.L., GULBIS, A.A., PERSON, M.J., KRAMER, E.A., ADAMS, E.R., ZULUAGA, C.A., PIKE, R.E., FRANCIS, P.J., LUCAS, R., BOSH, A.S., RAMM, D.J., GREENHILL, J.G., GILES, A.B., DIETERS, S.W. (2006) *A search for rings, moons, or debris in the Pluto system during the 2006 July 12 occultation.* *Bull. Amer. Astron. Soc.* **38**, 523 *sacho* (Abstract).
- PASACHOFF, J. M., BABCOCK, B.A., SOUZA, S.P., MCKAY, A.J., PERSON, M.J., ELLIOT, J.L., GULBIS, A.A., ZULUAGA, C.A. HILL, J.M., RYAN, E.V., AND RYAN, W.H. (2007) *Observational results from the 2007 March 18 Pluto stellar occultation.* *Bull. Amer. Astron. Soc.* **39**, 541 (Abstract).
- PASACHOFF, J.M., BROWN, M.E., PERSON, M.J., AND TAM, Y.H.N. (2010) *Pluto and beyond: stellar-occultation Web pages for education and observation planning.* *Bull. Amer. Astron. Soc.* **42**, 953 (Abstract).
- PASACHOFF, J.M., PANDEY, S., AMRHEIN, D., PERSON, M.J., GULBIS, A.A.S., BOSH, A.S., ZULUAGA, C.A., SALLUM, S., THOLEN, D.J., LUCAS, R., KAKKALA, M., CIOTTI, J., PLUNKETT, S., HIRAOKA, N., BEST, W., PILGER, E.J., MICELI, M., AND LEVINE, S. (2011) *The double-double Pluto-Charon and Pluto-Hydra predicted stellar occultations of June 2011.* *EPSC Abstracts* **6**, 1821 (Abstract).
- PASACHOFF, J.M., SOUZA, S.P., BABCOCK, B.A., PANDEY, S., HOSEK, M.W., PERSON, M.J., GULBIS, A.A.S., BOSH, A.S., ZULUAGA, C.A., RYAN, E.V., RYAN, W.H., BRIGGS, J.W., WINKLER, P.F., HOETTE, V., AND HAISLIP, J. (2011) *The 22 May 2011 Pluto occultation — observed.* *EPSC Abstracts* **6**, 1784 (Abstract).
- PASACHOFF, J.M., BABCOCK, B.A., DAVIS, A.B., PANDEY, S., LU, M., ROGOSINSKI, Z., PERSON, M.J., BOSH, A.S., ZANGARI, A.M., ZULUAGA, C.A., GULBIS, A.S., NARANJO, O., NAVAS, G., ZERPA, L., VILLARREAL, J., ROJO, P., FÖRSTER, F., AND SERVAJEAN, E. (2013) *Recent KBO (Pluto/Charon and beyond, including Quaoar) Occultation observations by the Williams College Team as part of the Williams-MIT collaboration.* *Bull. Amer. Astron. Soc.* **45**, 310.01 (Abstract).
- PASACHOFF, J.M., SCHIFF, A.R., SEEGER, C.H., BABCOCK, B.A., PERSON, M.J., GULBIS, A.S., ZULUAGA, C.A., LEVINE, S.E., OSIP, D.J., ROJO, P., AND KOSIAREK, M.R. (2014) *Coordinated occultation observations for Pluto, Nix, and Quaoar in July 2014.* *Bull. Amer. Astron. Soc.* **46**, 419.01 (Abstract).
- PASACHOFF, J.M., PERSON, M.J., BOSH, A.S., GULBIS, A.A.S., ZULUAGA, C.A., LEVINE, S., OSIP, D.J., SCHIFF, A.R., SEEGER, C.H., BABCOCK, B.A., ROJO, P., KOSIAREK, M.R., AND SERVAJEAN, E. (2015) *Trio of stellar occultations by Pluto one year prior to New Horizons' arrival.* *Bull. Amer. Astron. Soc.* **225**, 1371 (Abstract).
- PASACHOFF, J.M., BABCOCK, B.A., DURST, R.F., SEEGER, C.H., LEVINE, S.E., BOSH, A.S., SICKAFOOSE, A.A., PERSON, M.J., ABE, F., SUZUKI, D., NAGAKANE, M., AND TRISTAM, P.J. (2015) *A central flash at an occultation of a bright star by Pluto soon before New Horizons' flyby.* *Bull. Amer. Astron. Soc.* **47**, 210.12 (Abstract).
- PASACHOFF, J.M., PERSON, M.J., BOSH, A.S., SICKAFOOSE, A.A., ZULUAGA, C.A., KOSARIEK, M.R., LEVINE, S., OSIP, D.J., SCHIFF, A.R., SEEGER, C.H., BABCOCK, B.A., ROJO, P., AND SERVAJEAN, E. (2016) *Trio of stellar occultations by Pluto one year prior to New Horizons' arrival.* *Astron. Jour.* **151**, no. 4, 97.
- PASACHOFF, J.M., WIDEMANN, T., SICARDY, B., LISTER, T., THOLEN, D.J., GULBIS, A.A.S., AND ADAMS, E.R. (2009) *Attempted observations of the 2009 occultation of a star by Nix.* *Bull. Amer. Astron. Soc.* **214**, 606.01 (Abstract).
- PASACHOFF, J.M., BABCOCK, B.A., DURST, R.F., SEEGER, C.H., LEVINE, S.E., BOSH, A.S., PERSON, M.J., SICKAFOOSE, A.A., ZULUAGA, C.A., KOSIAREK, M.R., ABE, F., NAGAKANE, M., SUZUKI, D., TRISTAM, P.J., AND ARREDONDO, A. (2017) *Pluto occultation on 2015 June 29 UTC with central flash and atmospheric spikes just before the New Horizons flyby.* *Icarus* **296**, 305–314.
- PASCHALIDIS, N.P. (1999) *A smart sensor integrated circuit for NASA's new millennium spacecraft.* *Electronics, Circuits and Systems, 1999. Proceedings of ICECS '99* **3**, 1787–1790.

- PASCHALIDIS, N.P. AND MCNUTT, R. (2010) “ASICs for the Pluto Energetic Particle Spectrometer Science Investigation on NASA’s New Horizons mission to Pluto.” Paper given at 38th COSPAR Scientific Assembly. 08-15 July 2010, Bremen, Germany, p. 3. .
- PASCU, D. (1996) “Long-focus CCD astrometry of planetary satellites.” In *Dynamics, ephemerides, and astrometry of the solar system*, ed. Ferraz-Mello, S., Morando, B., and Arlot, J.-E. (Kluwer Academic Publishers, Boston), pp. 373–388.
- PASHKEVICH, V.V. (2016) New high-precision values of the geodetic rotation of the major planets, Pluto, the Moon and the Sun. *Artificial Satellites* **51**, no. 2, 61–73.
- PATEL, M.R., LONGUSKI, J.M., AND SIMS, J.A. (1995) A Uranus–Neptune–Pluto opportunity. *Acta Astron.* **35**, 287–296.
- PATEL, M.R., LONGUSKI, J.M., AND SIMS, J.A. (1995) A Uranus–Neptune–Pluto opportunity. *Acta Astron.* **36**, 91–98.
- PATEL, M.R., LONGUSKI, J.M., AND SIMS, J.A. (1998) Mars free return trajectories. *Jour. Spacecraft and Rockets* **35**, 350–354.
- PATRAGENARU, V. AND MARDIA, K.V. (2002) A bootstrap approach to Pluto’s origin. *Jour. Appl. Stat.* **29**, no. 6, 935–943.
- PAULSEL, L. (2003) Defining a “planet.” *Sky and Tel.* **105**, no. 1, 14..
- PEALE, S.J. (1976) Orbital resonances in the solar system *Ann. Rev. Astron. Astrophys.* **14**, 215–256.
- PEALE, S.J. (1986) Orbital resonances, unusual configurations, and exotic rotation states among planetary satellites. *Reports of the Planetary Geology and Geophysics Program—1986 NASA Technical Memorandum 89810*, 120 (Abstract).
- PEALE, S.J. (1986) “Orbital resonances, unusual configurations, and exotic rotation states among planetary satellites.” In *Satellites*, J.A. Burns and M.S. Matthews, eds. (Tucson: Univ. Arizona Press), pp. 159–223.
- PEALE, S.J. (1993) Pluto’s strange orbit. *Nature* **365**, 788–789.
- PEALE, S.J. (1999) Origin and evolution of the natural satellites. *Ann. Rev. Astron. Astrophys.* **37**, 533–602.
- PEALE, S.J., CHENG, W.H., AND LEE, M.H. (2011) The evolution of the Pluto system. *EPSC Abstracts* **6**, 665 (Abstract).
- PECHERNIKOVA, G.V. (1992) Problem of the formation of the distant planets. *Priroda* **9**, 3–9.
- PEIXINHO, N., DELSANTI, A., AND DORESSOUNDIRAM, A. (2015) Reanalyzing the visible colors of Centaurs and KBOs: what is there and what we might be missing. *Astron. Astrophys.* **577**, A35–A50.
- PENDLETON, Y., CRUIKSHANK, D.P., MATERESE, C.K., BOSTON, P.J., BEYER, R.A., BRAY, V.J., DALLEORE, C.M., ENNICO, K., GRUNDY, W., KEANE, J.T., LISSE, C.M., OLKIN, C.B., RUNYON, K.D., SCHMITT, B., SCIPIONI, F., STERN, S.A., SUMMERS, M.E., WEAVER, H.A., AND YOUNG, L.A. (2018) Prebiotic chemistry of Pluto. *Bull. Amer. Astron. Soc.* **50**, 506.06 (Abstract).
- PENDLETON, Y., CRUIKSHANK, D., DALLE ORE, C., GRUNDY, W., MATERESE, C., PROTOPAPA, S., SCHMITT, B., AND LISSE, C. (2020) A window on the composition of the early solar nebula: 2014 MU₆₉, Pluto, and Phoebe. *Bull. Amer. Astron. Soc.* **52**, no. 1, 224.01 (Abstract).
- PENSIMUS, F. AND VON SCHRUTKA-RECHTENSTAMM, G. (1938) Photographische aufnahmen von Pluto. *Astron. Nachr.* **266**, 331.
- PEPLOW, M. (2006) A brief history of Pluto. *Nature* **439**, 378–379.
- PEREK, L. (2006) “New planet definition: the IAU resolutions on planet definition.” Paper given at 57th International Astronautical Congress, Valencia, Spain, IAC paper #06-LBN.
- HALE, J.M. AND PATY, C.S. (2013) Characterizing Pluto’s plasma environment through multifluid MHD modelling. *AGU Fall Meeting Abstracts* **SM31A**, 2110 (Abstract).

- PÉREZ-DE-TEJADA, H., DURAND-MANTEROLA, H., LUNDIN, R.N., AND REYES-RUIZ, M. (2013) *Pluto's plasma wake oriented away from the ecliptic plane. AGU Fall Meeting Abstracts SM21B*, 2170 (Abstract).
- PÉREZ-DE-TEJADA, H., DURAND-MANTEROLA, H., REYES-RUIZ, M., AND LUNDIN, R. (2015) *Pluto's plasma wake oriented away from the ecliptic plane. Icarus* **246**, 310–316.
- PEROV, N.I. AND SADOVNIKOVA, A.A. (1994) *On the system Pluto–Charon. Astron. Vestnik* **28**, 215–222.
- PEROV, N.I. AND EROKHIN, A.A. (2018) *On the problem of Pluto's rings. Lunar & Planetary Sci.* **49**, 1012 (Abstract).
- PERRY, R.B., RUDY, R.J., VENTURINI, C.C., LYNCH, D.K., MAZUK, S., PUETTER, R.C., BUIE, M.W., AND GRUNDY, W.M. (2003) *0.9–2.5 micron reflectance spectroscopy of Pluto. Bull. Amer. Astron. Soc.* **35**, 1233 (Abstract).
- PERRY, R.B., RUDY, R.J., VENTURINI, C.C., LYNCH, D.K., MAZUK, S., PUETTER, R.C., BUIE, M.W., AND GRUNDY, W.M. (2004) *0.47–2.5 micron reflectance spectroscopy of Pluto. Bull. Amer. Astron. Soc.* **36**, 1453 (Abstract).
- PERSON, M.J., ELLIOT, J.L., CLANCY, K.B., KERN, S.D., SALYK, C.V., THOLEN, D.J., PASACHOFF, J.M., BABCOCK, B.A., SOUZA, S.P., TICEHURST, D.R., HALL, D., ROBERTS, L.C., JR., BOSH, A.S., BUIE, M.W., DUNHAM, E.W., OLKIN, C.B., TAYLOR, B., LEVINE, S.E., EIKENBERRY, S.S., MOON, D.-S., AND OSIP, D.J. (2003) *Pluto's atmospheric figure from the P131.1 stellar occultation. Bull. Amer. Astron. Soc.* **35**, 957 (Abstract).
- PERSON, M.J., ELLIOT, J.L., CLANCY, K.B., THOLEN, D.J., RAYNER, J.T., PASACHOFF, J.M., BABCOCK, B.A., TICEHURST, D.R., HALL, D., ROBERTS, JR., L.C., BOSH, A.S., EIKENBERRY, S.S., MOON, D.-S., BUIE, M.W., DUNHAM, E.W., OLKIN, C.B., TAYLOR, B., KERN, S.D., OSIP, D.J., QU, S., SALYK, C.V., LEGETT, S.K., LEVINE, S.E., AND STONE, R.C. (2002) *Examination of Pluto's atmospheric figure with the P131.1 stellar occultation. Bull. Amer. Astron. Soc.* **34**, 1211 (Abstract).
- PERSON, M.J., ELLIOT, J.L., GULBIS, A.A.S., PASACHOFF, J.M., BABCOCK, B.A., SOUZA, S.P., AND GANGESTAD, J. (2006) *Charon's radius and density from the combined data sets of the 2005 July 11 occultation. Astron. Jour.* **132**, 1575–1580.
- PERSON, M.J. (2006) *The use of stellar occultations to study the figures and atmospheres of small bodies in the outer solar system. Ph.D. dissertation, MIT, Cambridge, CA.*
- PERSON, M.J., ELLIOT, J.L., GULBIS, A.A.S., ZULUAGA, C.A., BABCOCK, B.A., MCKAY, A.J., PASACHOFF, J.M., SOUZA, S.P., HUBBARD, W.B., KULESA, C.A., MCCARTHY, D.W., KERN, S.D., LEVINE, S.E., BOSH, A.S., RYAN, E.V., RYAN, W.H., MEYER, A., AND WOLF, J. (2007) (134340) *Pluto. IAU Circular No. 8825.*
- PERSON, M.J., ELLIOT, J.L., GULBIS, A.A., ZULUAGA, C.A., BABCOCK, B.A., PASACHOFF, J.M., MCKAY, A.J., SOUZA, S.P., HUBBARD, W.B., KULESA, C.A., MCCARTHY, D.W., KERN, S.D., LEVINE, S.E., BOSH, A.S., RYAN, E.V., RYAN, W.H., MEYER, A., WOLF, J., AND HILL, J.M. (2007) *High altitude structure in Pluto's atmosphere from the 2007 March 18 stellar occultation. Bull. Amer. Astron. Soc.* **39**, 519 (Abstract).
- PERSON, M.J., ELLIOT, J.L., GULBIS, A.A.S., ZULUAGA, C.A., BABCOCK, B.A., MCKAY, A.J., PASACHOFF, J.M., SOUZA, S.P., HUBBARD, W.B., KULESA, C.A., MCCARTHY, D.W., BENECCI, S.D., LEVINE, S.E., BOSH, A.S., RYAN, E.V., RYAN, W.H., MEYER, A., WOLF, J., AND HILL, J. (2008) *Waves in Pluto's upper atmosphere. Astron. Jour.* **136**, 1510–1518.

- PERSON, M.J., BOSH, A.S., LEVINE, S.E., GULBIS, A.A.S., ZANGARI, A.M., ZULUAGA, C.A., DUNHAM, E.W., PASACHOFF, J.M., BABCOCK, B.A., PANDEY, S., ARMHEIN, D., SALLUM, S., THOLEN, D.J., COLLINS, P., BIDA, T., TAYLOR, B., WOLF, J., MEYER, A., PFUELLER, E., WIEDERMANN, M., ROESSER, H., LUCAS, R., KAKKALA, M., CIOTTI, J., PLUNKETT, S., HIRAOKA, N., BEST, W., PILGER, E. L., MICELI, M., SPRINGMANN, A., HICKS, M., THACKERAY, B., EMERY, J., RAPOPORT, S., AND RITCHIE, I. (2012) *Pluto's atmosphere from the 23 June 2011 stellar occultation: airborne and ground observations*. *Bull. Amer. Astron. Soc.* **44**, 304.02 (Abstract).
- PERSON, M.J., DUNHAM, E.W., BOSH, A.S., LEVINE, S.E., GULBIS, A.A.S., ZANGARI, A.M., ZULUAGA, C.A., PASACHOFF, J.M., BABCOCK, B.A., PANDEY, S., AMRHEIN, D., SALLUM, S., THOLEN, D.J., COLLINS, P., BIDA, T., TAYLOR, B., BRIGHT, L., WOLF, J., MEYER, A., PFUELLER, E., WIEDEMANN, M., ROESER, H.-P., LUCAS, R., KAKKALA, M., CIOTTI, J., PLUNKETT, S., HIRAOKA, N., BEST, W., PILGER, E.J., MICHELI, M., SPRINGMANN, A., HICKS, M., THACKERAY, B., EMERY, J.P., TILLEMANN, T., HARRIS, H., SHEPPARD, S., RAPOPORT, S., RITCHIE, I., PEARSON, M., MATTINGLY, A., BRIMACOMBE, J., GAULT, D., JONES, R., NOLTHENIUS, R., BROUGHTON, J., AND BARRY, T. (2013) *The 2011 June 23 stellar occultation by Pluto: airborne and ground observations*. *Bull. Amer. Astron. Soc.* **44**, 304.02.
- PERSON, M.J., ELLIOT, J.L., BOSH, A.S., GULBIS, A.A.S., JENSEN-CLEM, R., LOCKHART, M.F., ZANGARI, A.M., ZULUAGA, C.A., LEVINE, S.E., PASACHOFF, J.M., SOUZA, S.P., LU, M., MALAMUT, C., ROJO, P., BAILY, C.D., MACDONALD, R.K.D., IVARSEN, K.M., REICHART, D.E., LACLUYZE, A.P., NYSEWANDER, M.C., AND HAISLIP, J.B. (2010) *Pluto's atmosphere from the July 2010 stellar occultation*. *Bull. Amer. Astron. Soc.* **42**, 983 (Abstract).
- PERSON, M.J., BOSH, A.S., ZULUAGA, C.A., KOSIAREK, M., OSIP, D., LEVINE, S.E., PASACHOFF, J.M., SCHIFF, A.R., SEEGAR, C.H., BABCOCK, B.A., GULBIS, A.A., AND ROJO, P. (2014) *Atmospheric state of Pluto from the 31 July 2014 stellar occultation*. *Bull. Amer. Astron. Soc.* **46**, 419.09 (Abstract).
- PERSON, M.J., BOSH, A.S., SICKAFOOSE, A.A., ZALUAGA, C.A., LEVINE, S.E., PASACHOFF, J.M., BABCOCK, B.A., DUNHAM, E.W., MCLEAN, I., WOLF, J., ABE, F., BECKLIN, E., BIDA, T.A., BRIGHT, L.P., BROTHERS, T.C., CHRISTIE, G., COLLINS, P.I., DURST, R.F., GILMORE, A.C., HAMILTON, R., HARIS, H.C., JOHNSON, C., KILMARTIN, P.M., KOSIAREK, M.R., LEPPIK, K., LOGSDON, S.E., LUCAS, R., MATHERS, S., MORLEY, C.J.K., NATUSCH, T., NELSON, P., NGAN, H., PFUELLER, E., ROESER, H.-P., SALLUM, S., SAVAGE, M., SEEGER, C., SIU, H., STOCKDALE, C., SUZUKI, D., THANATHIBODEE, T., TILLEMANN, T., TRISTAM, P.J., VAN CLEEVE, J., VARUGHESE, C., WEISENBACH, L.W., WIDEN, E. AND WIDEMANN, M. (2015) *Central flash analysis of the 29 June 2015 occultation*. *Bull. Amer. Astron. Soc.* **47**, 105.05 (Abstract).
- PERSON, M.J., MIT-WILLIAMS OCCULTATION GROUP, HIPO INSTRUMENT GROUP, FLITECAM INSTRUMENT GROUP, FPI+ INSTRUMENT GROUP, AND SOFIA OPERATIONS GROUP. (2016) *Pluto's atmosphere from the 29 June 2015 occultation: SOFIA Airborne results*. *Bull. Amer. Astron. Soc.* **227**, 320.06 (Abstract).
- PERSON, M.J., BOSH, A.S., SICKAFOOSE, A.A., ZULUAGA, C., LEVINE, S., PASACHOFF, J.M., BABCOCK, B.A., DUNHAM, E.W., MCLEAN, I.S., WOLF, J., ABE, F., BECKLIN, E.E., BIDA, T.A., BRIGHT, L.P., BROTHERS, T., CHRISTIE, G., COLLINS, P., DURST, R., GILMORE, A., HAMILTON, R.T., HARRIS, H.C., JOHNSON, C.I., KILMARTEN, P., KOSIAREK, M., LEPPIK, K., LOGSDON, S.E., LUCAS, R., MATHERS, S., MORLEY, C., NATUSCH, T., NELSON, P., NGAN, H., PFUELLER, E., ROESER, H.P., SALLUM, S., SAVAGE, M.L., SEEGER, C., SIU, H.C., STOCKDALE, C., SUZUKI, D., THANATHIBODEE, T., TILLEMANN, T., TRISTAM, P.J., VAN CLEEVE, J.E., VARUGHESE, C., WEISENBACH, L., WIDEN, E., AND WIDEMANN, M. (2016) *Implications of the central flash analysis from the 2015 Pluto stellar occultation*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 145 (Abstract).

- PERSON, M.J., BOSH, A.S., ZULUAGA, C.A., SICKAFOOSE, A.A., LEVINE, S.E., PASACHOFF, J.M., BABCOCK, B.A., DUNHAM, E.W., MCLEAN, I.S., WOLF, J., ABE, F., BECKLIN, E.E., BIDA, T.A., BRIGHT, L.P., BROTHERS, T., CHRISTIE, G., DURST, R.F., GILMORE, A.C., HAMILTON, R.T., HARRIS, H.C. JOHNSON, C., KILMARTIN, P.M., KOSIAREK, M., LEPPIK, K., LOGSDON, S.E., LUCAS, R., MATHERS, S., MORLEY, C.J.K., NELSON, P., NGAN, H., PFÜLLER, E., NATUSCH, T., SALLUM, S., SAVAGE, M.L., SEEGER, C.H., SIU, H.C., STOCKDALE, C., SUZUKI, D., THANATHIBODEE, T., TILLEMANN, T., TRISTRAM, P.J., VACCA, W.D., VAN CLEVE, J., VARUGHESE, C., WEISENBACH, L.W., WIDEN, E., AND WIEDEMANN, M. (2021) *Haze in Pluto's atmosphere: results from SOFIA and ground-based observations of the 2015 June 29 Pluto occultation*. *Icarus* **356**, 113572.
- PETERS, C.F.H. (1878) *Investigation of the evidence of a supposed trans-Neptunian planets in the Washington observations of 1850*. *Astron. Nachr.* **94**, 114–115.
- PETERSEN, B.R. (1973) *En planet utenfor Pluto?* *Astronomisk Tidsskrift* **6**, 1–2.
- PETERSON, I. (1992) *Chaos in the clockwork*. *Sci. News* **141**, 120–121.
- PETERSON, J.G., BIRATH, E., CARCICH, B., AND HARCH, A. (2013) “Closing the uplink/downlink loop on the new Horizons Mission to Pluto.” Paper given at *Proceedings of the Aerospace Conference, 2013 IEEE. 2–9 March 2013. Big Sky, MT, 1–9.*, .
- PETERSON, I. (1993) “Digital orrery.” In *Newton's clock: chaos in the Solar System* (W.H. Freeman, NY, NY), 223–246.
- PENZO, P.A. (1971) “Satellite encounter opportunities of the Grand Tour Missions.” Paper given at *American Astronautical Society and American Institute of Aeronautics and Astronautics Specialists Conference, Ft. Lauderdale, Fla. August 17–19*.
- PEROV, N.I. (2019) *Resonances in Pluto's system. Pluto System After New Horizons, LPI Contribution No. 2133, Lauri, MD, 2019 July 14–18, 7001 (Abstract)*.
- PESIC, P. (2013) *What the Romans really knowed*. *Science* **339**, 273–274.
- PETIT, C.W. (2002) *Pluto or bust*. *U.S. News and World Report* **113**, no. 18, 76 (Nov. 11, 2002).
- PETIT, J.-M., MORBIDELL, A., AND VALESCCHI, G.B. (1999) *Large scattered planetesimals and the excitation of the small body belts*. *Icarus* **141**, 367–387.
- PETIT, J.M., GLADMAN, B., KAVELAARS, J.J., JONES, L., PARKER, J.M., AND BIERYLA, A. (2006) *The Canada–France Ecliptic Plane Survey: first (L3) data release*. *Astron. Jour.* **137**, no. 6, 4917–4935.
- PETIT, J.M., KAVELAARS, J.J., GLADMAN, B.J., JONES, R.L., PARKER, J.W., VAN LAERHOVEN, C., NICHOLSON, P., MARS, G., ROUSSELOT, P., MOUSIS, O., MARSDEN, B., BIERYLA, A., TAYLOR, M., ASHBY, M.L.N., BENAVIDEZ, P., CAMPO BAGATIN, A., AND BERNABEU, G. (2011) *The Canada–France Ecliptic Plane Survey–Full Data Release: the orbital structure of the Kuiper Belt*. *Astron. Jour.* **142**, no. 4, 131.
- PETROVSHAIA, M.S. AND IVANOVA, T.V. (1978) *Construction of expansions of the planetary perturbing function*. *Institut Teoreticheskoi Astronomii, Biulleten* **14**, 288–293.
- PETUKHOVA, M.S. (1976) *Radiophysical investigations of the planets: a bibliography: 1960–1973*. *Izdatel'stvo Nauka* **1976**, 184 pp.
- PHAM, T. AND DEBOY, C. (2007) *Polarization combining in the DSN — recent results*. *Microwave Symposium, 2007. IEEE/MTT-S International ???, (June 2007) 943–946*.
- PHILLIPE, S., SCHMITT, B., GRUNDY, W., PROTOPAPA, S., AND OLKIN, C. (2015) *12 years of Pluto surface's evolution investigated with radiative transfer modeling*. *Bull. Amer. Astron. Soc.* **47**, 210.19 (Abstract).

- PHILIPPE, S., SCHMITT, B., GRUNDY, W.M., PROTOPAPA, S., CRUIKSHANK, D.P., QUIRICO, E., CÔTE, R., BERRY, K.L., BINZEL, R.P., COOK, J.C., DALLE ORE, C.M. EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C. J.A., LINSOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., REUTER, D.C., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C. VERBISER, A.J., WEAVER, H.A., YOUNG, L.A. (2016) *CH₄-rich ices distribution at the surface of Pluto evidenced by New Horizons*. *Lunar & Planetary Sci.* **47**, 2757 (Abstract).
- PHILLIPS, K.J.H. (1966) *Appulse of Pluto to 15th mag star in April 1965*. *The Astronomer* **2**, 4.
- PICKERING, E.C. (1908) *A search for a planet beyond Neptune*. *Harvard College Observatory Circular No. 144*, 2.
- PICKERING, W.H. (1909) *A search for a planet beyond Neptune*. *Annals of the Harvard College Observatory* **61–Part II**, 113–165.
- PICKERING, W.H. (1908) *A search for a planet beyond Neptune*. *The Observatory* **32**, 294 (Letter to editor).
- PICKERING, W.H. (1908) *A search for a planet beyond Neptune*. *Astron. Nachr.* **179**, 323.
- PICKERING, W.H. (1909) *The assumed planet beyond Neptune*. *Pop. Astron.* **77**, 545.
- PICKERING, W.H. (1909) *The assumed Planet O beyond Neptune*. *The Observatory* **32**, 326–328.
- PICKERING, W.H. (1910) *The photographic search for Planet O*. *Pub. Astron. and Astrophys. Soc. of America* **1**, 336–337.
- PICKERING, W.H. (1911) *A statistical investigation of cometary orbits*. *Annals of the Harvard College Observatory* **61**, 167–368.
- PICKERING, W.H. (1911) *A photographic search for Planet O*. *Annals of the Harvard College Observatory* **61**, 113–162.
- PICKERING, W.H. (1911) *A photographic search for Planet O*. *Annals of the Harvard College Observatory* **61**, 369.
- PICKERING, W.H. (1919) *Perturbations of Neptune*. *Harvard College Observatory Circular #215*.
- PICKERING, W.H. (1911) *A trans-Neptunian planet*. *Annals of the Harvard College Observatory* **82**, 49–59.
- PICKERING, W.H. (1919) *Perturbation de Neptune et planètes transneptunienne*. *L’Astronomie* **33**, 393–394.
- PICKERING, W.H. (1928) *The next planet beyond Neptune*. *Pop. Astron.* **36**, 136.
- PICKERING, W.H. (1928) *The next planet beyond Neptune*. *Pop. Astron.* **36**, 143–165.
- PICKERING, W.H. (1928) *The next planet beyond Neptune. Part II*. *Pop. Astron.* **36**, 218–221.
- PICKERING, W.H. (1928) *The orbits of the comets of short period*. *Pop. Astron.* **36**, 274–281.
- PICKERING, W.H. (1928) *The orbit of Uranus*. *Pop. Astron.* **36**, 353–361.
- PICKERING, W.H. (1928) *The three outer planets beyond Neptune*. *Pop. Astron.* **36**, 417–424.
- PICKERING, W.H. (1929) *Planet O*. *Pop. Astron.* **37**, 135–138.
- PICKERING, W.H. (1930) *The trans-neptunian planet*. *Pop. Astron.* **38**, 285–292.
- PICKERING, W.H. (1930) *The trans-neptunian planet (Supplementary note)*. *Pop. Astron.* **38**, 293–294.
- PICKERING, W.H. (1930) *The trans-neptunian comet*. *Pop. Astron.* **38**, 341–344.
- PICKERING, W.H. (1930) ??? (report to meeting of June 25, 1930) *Jour. Brit. Astron. Assoc.* **40**, 292–???
- PICKERING, W.H. (1931) *The discovery of Pluto*. *Mon. Not. Roy. Astron. Soc.* **91**, 812–817.
- PICKERING, W.H. (1931) *Errata*. *Mon. Not. Roy. Astron. Soc. Supp.* **91**, 10.
- PICKERING, W.H. (1931) *The mass and density of Pluto—Are the claims that it was predicted by Lowell justified?* *Pop. Astron.* **39**, 2–7.
- PICKERING, W.H. (1931) *Planet P. Comet 1930 III, Wilk, Number 590*. *Pop. Astron.* **39**, 321–323.

- PICKERING, W.H. (1931) *Planet P, its orbit, position and magnitude. Planets S and T. Pop. Astron.* **39**, 385–398.
- PICKERING, W.H. (1932) *A search for Planet P. Harvard College Observatory Bulletin* **886**, 15.
- PICKERING, W.H. (1932) *Planet U, and the orbits of Saturn and Jupiter. Pop. Astron.* **40**, 69–88.
- PICKERING, W.H. (1932) *First report on the search for Planet P. Pop. Astron.* **40**, 351–354.
- PICKERING, W.H. (1932) *A reply to professor Brown’s criticism of my views on Pluto. Pop. Astron.* **40**, 519–525.
- PICKERING, W.H. (1933) *Pluto: A discussion of Dr. Jackson’s orbit of Neptune. Pop. Astron.* **41**, 556–560.
- PICKERING, W.H. (1933) *Perturbation de Neptune et planète transneptunienne. L’Astronomie* **47**, 393–394.
- PICKERING, W.H. (1934) *The difference between the discoveries of Neptune and Pluto. Pub. Astron. Soc. Pacific* **46**, 44–48.
- PICKERING, W.H. (1934) *Erratum. Pub. Astron. Soc. Pacific* **46**, 161.
- PICKERING, W.H. AND SHAPLEY, H. (1937) *The transneptunian planet. Annals of the Harvard College Observatory* **82**, 50–59.
- PICKERING, W.H. (1970) *The Grand Tour. American Scientist* **58**, 148–155.
- PICKERING, W.H. (1970) *Outer-planet spacecraft: the challenge engaged. Astronautics and Aeronautics* **8**, no. 9, 32.
- PIERCE, B. (1852) *On the law of vegetable growth and the periods of the planets. Proc. Amer. Acad. Arts & Sciences* **2**, 241–247.
- PILACHOWSKI, C.A. (2002) *Division of Planetary Science statements. Science* **298**, 61 (Letter to editor).
- PILACHOWSKI, C.A. (2002) *Decadal studies are big news in astronomy! In “President’s column” A.A.S. Newsletter* **113**, 1.
- PINCOOK, S.L., RAGOZZINE, D.A., AND PORTER, S.B. (2019) *Spin and orbit dynamics of unique Kuiper belt trinary Lempo. Bull. Amer. Astron. Soc.* **51**, no. 5, 401.04 (Abstract).
- PING, J.S. (2016) *One-Way Ddoppler observation for New Horizon using radio astronomical station. Lunar & Planetary Sci.* **47**, 1346 (Abstract).
- PINILLA-ALONSO, N., LICANDRO, J., AND GIL-HUTTON, R. (2006) *The surface of Pluto-twin and Charon-like objects. Bull. Amer. Astron. Soc.* **38**, 556 (Abstract).
- PINILLA-ALONSO, N., LICANDRO, J., GIL-HUTTON, R., AND BRUNETTO, R. (2007) *The water ice rich surface of (145453) 2005 RR₄₃: a case for a carbon-depleted population of TNOs? Astron. Astrophys.* **468**, L25–L28.
- PINILLA-ALONSO, N., EMERY, J.P., CRUIKSHANK, D.P., PROTOPAPA, S., GRUNDY, W., LISSE, C.M., BAUER, J., FERNANDEZ, Y., STANSBERRY, J., AND BURATTI, B.J. (2014) *Diurnal and seasonal variations of Pluto’s surface composition through Spitzer Space telescope eyes. Bull. Amer. Astron. Soc.* **46**, 404.05 (Abstract).
- PINILLA-ALONSO, N, STANSBERRY, J.A. AND HOLLER, B.J. (2020) *“Physical and compositional properties of large TNOs: from Spitzer, to JWST.” In The Trans-Neptunian Solar System (Dina Prialnik, Maria Antonietta Barucci, and Leslie Young, eds.), 395–412.*
- PINILLA-ALONSO, N., STANSBERRY, J., AND HOLLER, B. (2020) *“Surface properties of large TNOs: expanding the study to longer wavelengths with the James Webb Space Telescope.” In The Transneptunian Solar System (Dina Prialnik, Maria Antonietta Barucci, Leslie Young, eds., Elsevier Press.), ???.*
- PINKINE, N., CUSTODIO, O., SIBOL, D., WILLIAMS, S., AND CIFUENTES, J. (2008) *“New Horizons mission operations: spacecraft memory management process to reduce mission risk.” Paper given at Space 2008, San Diego, CA, AIAA paper #2008-7654.*

- PIQUETTE, M., POPPE, A.R., BERNARDONI, E., SZALAY, J.R., JAMES, D., HORANYI, M., STERN, S.A., WEAVER, H., SPENCER, J., AND OLKIN, C. (2018) *Student Dust Counter: status report at 38 AU*. *Lunar & Planetary Sci.* **49**, 2537 (Abstract).
- PIQUETTE, M., POPPE, A.R., BERNARDONI, E., SZALAY, J.R., JAMES, D., HORÁNYI, M., STERN, S.A., WEAVER, H., SPENCER, J., AND OLKIN, C., AND NEW HORIZONS P&P TEAM. (2018) *Student Dust Counter: status report at 38 AU*. *Icarus* **321**, 116–125.
- PIQUETTE, M.R., JAMES, D., AND HORANYI, M. (2019) *The response of varying particle density and incidence angle on polyvinylidene fluoride dust detectors*. *AGU Fall Meeting Abstracts* **P331**, 3534 (Abstract).
- PIRAUX, J. (1979) *Representations of perturbations brought by Pluto on the large planets*. *Astron. Astrophys.* **79**, 132–137.
- PIRES DOS SANTOS, P.M., GIULIATTI-WINTER, S.M., AND SFAIR, R. (2009) *Gravitational effects of Nix and Hydra in the external region of Pluto-Charon system*. *Bull. Amer. Astron. Soc.* **41**, 47.01 (Abstract).
- PIRES DOS SANTOS, P.M., GIULIATTI-WINTER, S.M., AND SFAIR, R. (2011) *Gravitational effects of Nix and Hydra in the external region of the Pluto-Charon system*. *Mon. Not. Roy. Astron. Soc.* **410**, 373–379.
- PIRES DOS SANTOS, P.M., GIULIATTI-WINTER, S.M., AND SFAIR, R. (2011) *Dynamical evolution of the escaping ejecta from the Nix and Hydra surfaces*. *EPSC Abstracts* **6**, 565 (Abstract).
- PIRES DOS SANTOS, P.M., MORBIDELLI, A., NESVORNÝ, D., AND GIULIATTI WINTER, S.M. (2012) *Analysis of the origin and evolution of the small satellites of Pluto*. *Bull. Amer. Astron. Soc.* **44**, 310.03.
- PIRES DOS SANTOS, P.M., MORBIDELLI, A., AND NESVORNÝ, D. (2012) *Dynamical capture in the Pluto-Charon system*. *Cel. Mech. Dyn. Astron.* **114**, no. 4, 341–352.
- PIRES DOS SANTOS, P.M., GIULIATTI-WINTER, S.M., AND GOMES, R.S. (2013) *Analysis on the evolution of a Pluto-like system during close encounters with the giant planets in the framework of the Nice Model*. *Bull. Amer. Astron. Soc.* **44**, 204.18 (Abstract).
- PIRES DOS SANTOS, P.M., GIULIATTI-WINTER, S.M., SFAIR, R., AND MOURÃO, D.C. (2013) *Small particles in Pluto’s environment: effects of the solar radiation pressure*. *Mon. Not. Roy. Astron. Soc.* **430**, 2761–2767.
- PIRES, P., GIULIATTI WINTER, S.M., GOMES, R.S., AND YOUNG, L.A. (2015) *The evolution of a Pluto-like system during the migration of the ice giants*. *Icarus* **246**, 330–338.
- PLACHY, G.V. (1941) *The planets: their variety and unique characteristics*. In “Beginner’s page,” *The Sky* **5**, 11.
- PLANE, J.M.C., FLYNN, G.J., MÄÄTTÄNEN, A., MOORES, J.E., POPPE, A.R., CARILLO-SANCHEZ, J.D., AND LISTOWSKI, C. (2018) *Impacts of cosmic dust on planetary atmospheres and surfaces*. *Spa. Sci. Rev.* **214**, no. 1, 23.
- PLETSEER, V. (1989) *Notes on the initial satellite system of Neptune*. *Earth, Moon, and Planets* **46**, 285–295.
- PLOTKIN, H. (1981) *Book Review: Planets X and Pluto, by W.G. Hoyt*. *Ann. Sci.* **38**, 235–236.
- PLOZZA, S. (1982) *Begegnung mit dem Entdecker des Pluto*. *Clyde W. Tombaugh—Legende zu Lebzeiten*. *Orion* **40**, 181–182.
- POHÁNKA, V. (1979) *Pluto*. *Kozmos* **10**, 35–37.
- POHÁNKA, V. (1988) *How does Pluto look?* *Kozmos* **19**, 76–77.
- POHL, F. (1989) *The greatest show off earth*. *Omni* ???, (Nov., 1989), 998–999.
- POKORNÝ, Z. (1982) *The planet Pluto*. *Říše hvězd* **63**, 161–163.
- POLAKIS, T. (1994) *Taking a crack at Charon*. *Astronomy* **22**, no. 10, 7 (Letter to editor).

- POLLACK, J.B. (1984) *Origin and history of the outer planets: theoretical models and observational constraints*. *Ann. Rev. Astr. Astrophys.* **22**, 389–424.
- POPPE, A., JAMES, D., AND HORÁNYI, M. (2007) *Dust measurements on-board the New Horizons mission*. *AGU Fall Meeting Abstracts P51A*, 0204 (Abstract).
- POPPE, A.R., JAMES, D., JACOBSMEYER, B., AND HORÁNYI, M. (2010) *First results from the Venetia Burney Student Dust Counter on the New Horizons mission*. *Geophys. Res. Letters* **37**, L11101.
- POPPE, A.R., JAMES, D., JACOBSMEYER, B., AND HORÁNYI, M. (2010) *Measurements of the interplanetary dust population by the Venetia Burney Student Dust Counter on the New Horizons Mission*. *Lunar & Planetary Sci.* **41**, 1219 (Abstract).
- POPPE, A.R. AND HORÁNYI, M. (2011) *The effect of Nix and Hydra on the putative Pluto-Charon dust cloud*. *Lunar & Planetary Sci.* **42**, 1201 (Abstract).
- POPPE, A.R. AND HORÁNYI, M. (2011) *The effect of Nix and Hydra on the putative Pluto-Charon dust cloud*. *Planetary and Spa. Sci.* **59**, 1647–1653.
- POPPE, A.R. (2015) *Interplanetary dust influx to the Pluto–Charon system*. *Icarus* **246**, 352–359.
- POPPE, A.R., LISSE, C.M., PIQUETTE, M., ZEMCOV, M., HORÁNYI, M., JAMES, D., SZALAY, J.R., BERNARDONI, E., AND STERN, S.A. (2019) *Constraining the solar system’s debris disk with in situ New Horizons measurements from the Edgeworth–Kuiper Belt*. *Astrophys. Jour. Lett.* **881**, no. 1, L12.
- POPPE, A.R. AND HORÁNYI, M. (2019) *Interplanetary dust delivery of water to the atmospheres of Pluto and Triton*. *Lunar & Planetary Sci.* **50**, 1044 (Abstract).
- POPPE, A.R., LISSE, C.M., PIQUETTE, M., ZEMCOV, M., HORÁNYI, M., JAMES, D., SZALAY, J.R., BERNARDONI, E., AND STERN, S.A. (2019) *Constraining the solar system’s debris disk with in situ New Horizons measurements from the EdgeworthKuiper Belt*. *Astrophys. Jour.Lett.* **881**, no. 1, L12.
- POPPE, A.R., LISSE, C.M., PIQUETTE, M., ZEMCOV, M., HORÁNYI, M., JAMES, D., SZALAY, J.R., BERNARDONI, E., AND STERN, S.A. (2019) *Erratum: Constraining the solar system’s debris disk with in situ New Horizons measurements from the EdgeworthKuiper Belt*. *Astrophys. Jour.Lett.* **882**, no. 1, L14.
- POPPE, A.R., LISSE, C.M., PIQUETTE, M., ZEMCOV, M., HORÁNYI, M., JAMES, D., SZALAY, J.R., BERNARDONI, E., AND STERN, S.A. (2019) *Erratum: “Constraining the solar system’s debris disk with in situ New Horizons measurements from the Edgeworth–Kuiper Belt” (2019, ApJL, 881, L12)*. *Astrophys. Jour.Lett.* **882**, no. 1, L14.
- PORCO, C. (2018) *Obituaries: Bradford Adelbert Smith*. *Physics Today* **91**, no. 9, 68.
- PORO, A., AHANGARANI FARAHANI, F., BAHRAMINASR, M., HADIZADEH, M., NAJAFI KODINI, F., REZAEI, M., AND SEIFI GARGARI, M. (2021) *Study of Pluto’s atmosphere based on 2020 stellar occultation light curve results*. *Astron. Astrophys.Lett.* **653**, L11.
- PORTER, M.W., GERDES, D.W., NAPIER, K.J.M LIN, H.W., AND ADAMS, F.C. (2024) *Can Neptune’s distant mean motion resonances constrain undiscovered planets in the solar system? Lessons from a case study of the 9:1 resonance*. *Planetary Sci. Jour.* **5**, no. 3, 61.
- PORTER, S. AND GRUNDY, W. (2013) *Ejecta transfer within the Pluto system*. *Bull. Amer. Astron. Soc.* **45**, 310.07 (Abstract).
- PORTER, S.B., ZANGARI, A., AND STERN, S.A. (2014) *Escape erosion and relaxation of craters on Pluto*. *Bull. Amer. Astron. Soc.* **46**, 401.09 (Abstract).
- PORTER, S.B., ZANGARI, A., AND STERN, S.A. (2014) *Escape erosion and relaxation of craters on Pluto*. *Asteroids, Comets, and Meteorites* **2014**, 428 (Abstract).
- PORTER, S.B. AND GRUNDY, W.M. (2015) *Ejecta transfer in the Pluto system*. *Icarus* **246**, 360–368.
- PORTER, S.B., SHOWALTER, M.R., SPENCER, J.R., WEAVER, H.A., BINZEL, R.P., HAMILTON D.P., STERN, S.A., OLKIN, C.B., YOUNG, L.A., AND ENNICO, K. (2015) *Shapes and poles of the small satellites of Pluto*. *Bull. Amer. Astron. Soc.* **47**, 102.10 (Abstract).

- PORTER, S.B., SHOWALTER, M.R., WEAVER, H.A., SPENCER, J.R., BINZEL, R.P., HAMILTON, D.P., LAUER, T.R., STRYK, T., BUIE, M.W., BURATTI, B., VERBISCHER, A.J., PARKER, A.H., SINGER, K., MCKINNON, W., ROBBINS, S., MOORE, J., GRUNDY, W., STERN, S.A., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K. (2016) *The small satellites of Pluto. Lunar & Planetary Sci.* **47**, 2390 (Abstract).
- PORTER, S.B., SHOWALTER, M.R., WEAVER, H.A., SPENCER, J.R., BINZEL, R.P., HAMILTON, D.P., LAUER, T.R., STRYK, T., VERBISCHER, A.J., GRUNDY, W.M., STERN, S.A., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K. (2016) *Shapes and poles of the small satellites of Pluto. Lunar & Planetary Sci.* **47**, 2402 (Abstract).
- PORTER, S.B., SPENCER, J.R., BENECCHI, S., VERBISCHER, A., ZANGARI, A.M., WEAVER, H.A., LAUER, T.R., PARKER, A.H., BUIE, M.W., CHENG, A.F., YOUNG, L.A., OLKIN, C.B., ENNICO, K., STERN, S.A., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Red, rough, fast, and perturbed: New Horizons observations of KBO (15810) 1994 JR₁ from the Kuiper Belt. Astrophys. Jour.Lett* **618**, L57–L60.
- PORTER, S., SPENCER, J.R., BENECCHI, S.D., VERBISCHER, A.J., ZANGARI, A.M., WEAVER, H.A., LAUER, T.R., PARKER, A., BUIE, M.W., CHENG, A.F., YOUNG, L., OLKIN, C.B., ENNICO, K., STERN, S.A., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *The first high-phase observations of a KBO: New Horizons imaging of (15810) 1994 JR₁ from the Kuiper Belt. Bull. Amer. Astron. Soc.* **48**, no. 7, 21–22 (Abstract).
- PORTER, S.B., SPENCER, J.R., BENECCHI, S., VERBISCHER, A., ZANGARI, A.M., WEAVER, H.A., LAUER, T.R., PARKER, A.H., BUIE, M.W., CHENG, A.F., YOUNG, L.A., OLKIN, C.B., ENNICO, K., STERN, S.A., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *The first high-phase observations of a KBO: New Horizons imaging of (15810) 1994 JR₁ from the Kuiper Belt. Astrophys. Jour.Lett.* **828**, no. 2, L15.
- PORTER, S.B. AND STERN, S.A. (2015) *Orbits of potential Pluto satellites and rings between Charon and Hydra. Submitted to Astrophys. Jour.Lett*
- PORTER, S.B., SPENCER, J.R., SHOWALTER, M., WEAVER, H.A., MCKINNON, W.B., LAUER, T., OLKIN, C., YOUNG, L.A., ENNICO SMITH, K., STERN, S.A., *New Horizons* LORRI TEAM, *New Horizons* RALPH TEMA, AND THE *New Horizons* GEOLOGY AND GEOPHYSICS IMAGING TEAM. (2017) *Poles and densities of the small satellites of Pluto. Asteroids, Comets, and Meteorites* **2017**, 334 (Abstract).
- PORTER, S.B., BUIE, M.W., SPENCER, J.R., FOLKNER, W., PARKER, A., ZANGARI, A.M., VERBISCHER, A.J., BENECCHI, S., STERN S.A., TERRELL, D., SOTO, A., TAMBLYN, P., WASSERMAN, L.H., AND YOUNG, E.F. (2017) *Ultra-high resolution orbit determination of (486958) 2014 MU69: predicting an occultation with 1% of an orbit. Bull. Amer. Astron. Soc.* **49**, no. 5, 504.02 (Abstract).
- PORTER, S.B., BUIE, M.W., PARKER, A.H., SPENCER, J.R., BENECCHI, S., TANGA, P., VERBISCHER, A., KAVELAARS, J.J., GWYN, S.D.J., YOUNG, E.F., WEAVER, H.A., OLKIN, C.B., PARKER, J.W., AND STERN, A. (2017) *High-precision orbit fitting and uncertainty analysis of (486958) 2014 MU69. Astron. Jour.* **156**, no. 1, 20.
- PORTER, S.B., VERBISCHER, A., WEAVER, H.A., SPENCER, J., BENECCHI, S., PARKER, A., OLKIN, C.B., PARKER, J., AND STERN, S.A. (2018) *New Horizons distant observations of Cold Classical KBOs. Bull. Amer. Astron. Soc.* **50**, 509.07 (Abstract).
- PORTER, S.B., SHOWALTER, M.R., WEAVER, H.A., SPENCER, J.R., LAUER, T.R., VERBISCHER, A.J., GRUNDY, W.M., STERN, S.A., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K. (2019) *The shapes and poles of Nix and Hydra from New Horizons. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7038 (Abstract).*
- PORTER, S.B. AND CANUP, R. (2019) *Constraints on the masses of Nix and Hydra. Bull. Amer. Astron. Soc.* **51**, no. 5, 401.03 (Abstract).

- PORTER, S., BEYER, R.A., BIERSON, C.J., SCHENK, P., SHOWALTER, M., BUIE, M.W., VERBISCHER, A., SPENCER, J.R., BENECHCHI, S., ZANGARI, A.M., PARKER, A.H., MCKINNON, W.B., WEAVER, JR., H.A., PARKER, J.W., SINGER, K.N., OLKIN, C., AND STERN, S.A. (2019) *The shapes of (486958) 2014 MU₆₉ and 14 other Kuiper Belt Objects from New Horizons*. *AGU Fall Meeting Abstracts P42C*, 02 (Abstract).
- PORTER, S., BEYER, R., KEANE, J., UMURHAN, O., BIERSON, C., GRUNDY, W., BUIE, M., SHOWALTER, M., SPENCER, J., STERN, A., WEAVER, H., OLKIN, C., PARKER, J., AND VERBISCHER, A. (2019) *The shape and pole of (486958) 2014 MU₆₉*. *ESPC–DPS Joint Meeting* **13**, 311P (Abstract).
- PORTER, S., BEYER, R., VERBISCHER, A., SPENCER, J., BUIE, M., BIERSON, C., SHOWALTER, M., SCHENK, P., BENECHCHI, S., MCKINNON, W., WEAVER, H.A., PARKER, J., SINGER, K., OLKIN, C., STERN, A., AND NEW HORIZONS SCIENCE TEAM. (2020) *The shapes of Kuiper Belt Objects from New Horizons*. *Bull. Amer. Astron. Soc.* **52**, no. 1, 438.08 (Abstract).
- PORTER, S.B., BENECHCHI, S.D., VERBISCHER, A.J., KEANE, J.T., SPENCER, J.R., WEAVER, H.A., SINGER, K.N., BRANDT, P.C., STERN, S.A., AND NEW HORIZONS GGI TEAM. (2022) *The poles and shapes of seven Kuiper Belt Objects as measured from New Horizons*. *Lunar & Planetary Sci.* **53**, 2170 (Abstract).
- PORTER, S.B. AND CANUP, R.M. (2023) *Orbits and masses of the small satellites of Pluto*. *Planetary Sci. Jour.* **4**, no. 7, 120.
- PORTREE, D.S.F. (1995) “The Kuiper Belt.” In *The truth about asteroids*. *Stardate* **23**, no. 4, 7–9.
- PORTER, S.B., VERBISCHER, A.J., WEAVER, H.A., SPENCER, J.R., KAVELAARS, J.J., SINGER, K.N., PARKER, J.W., STERN, S.A., AND NEW HORIZONS GGI TEAM (2020) *Shapes of TNOs from New Horizons lightcurves*. *Lunar & Planetary Sci.* **51**, 1645 (Abstract).
- PORTER, S., WEAVER, H., VERBISCHER, A., SPENCER, J., SINGER, K., STERN, A., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING TEAM. (2020) *New Horizons satellite searches from within the Kuiper Belt*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 307.03 (Abstract).
- PORTER, S., SPENCER, J., VERBISCHER, A., BENECHCHI, S., WEAVER, H.A., LIN, H.W., KAVELAARS, J.J., FRASER, W., GERDES, D., BUIE, M., SINGER, K., PARKER, J., AND STERN, S.A. (2021) *Orbits and occultation opportunities of 15 TNOs observed By New Horizons*. *Bull. Amer. Astron. Soc.* **53**, 111.05 (Abstract).
- PORTER, S., SPENCER, J., VERBISCHER, A., BENECHCHI, S., WEAVER, H.A., LIN, H.W., KAVELAARS, J.J., FRASER, W., GERDES, D., BUIE, M., SINGER, K., PARKER, J., AND STERN, S.A. (2021) *Orbits and occultation opportunities of 15 TNOs observed By New Horizons*. *Planetary Sci. Jour.* **3**, no. 1, 23.
- PORTER, S., BENECHCHI, S., VERBISCHER, A., KEANE, J., SPENCER, J., WEAVER, H., SINGER, K., BRANDT, P., AND STERN, A. (2022) *The poles and shapes of seven Kuiper Belt Objects as measured from New Horizons*. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece*, **B1.2-0002-22**, (Abstract).
- PORTER, S.B., BENECHCHI, S.D., VERBISCHER, A.J., GRUNDY, W.M., NOLL, K.S., AND PARKER, A.H. (2024) *Detection of close Kuiper Belt Objects with HST WFC3*. *Planetary Sci. Jour.* **5**, 143.
- POSTON, M.J., MAHJOUR, A., EHLMANN, B.L., BLACKSBERG, J., BROWN, M.E., CARLSON, R.W., EILER, J.M., HAND, K.P., HODYSS, R., AND WONG, I. (2018) *Visible near-infrared spectral evolution of irradiated mixed ices and application to Kuiper Belt Objects and Jupiter Trojans*. *Astrophys. Jour.* **856**, no. 2, 124.
- POWELL, C.S. (1989) *A mathematical search for Planet X*. *Jour. Brit. Interplanetary Soc.* **42**, 327–333.
- POWELL, C.S. (1992) *A rare glimpse of a dim world—Pluto and Charon*. *Sci. Amer.* **267**, no. 2, 24.
- POWELL, J.R., PANIAGUA, J., MAISE, G., LUDEWIG, H., AND TODOSOW, M. (1999) *High performance nuclear thermal propulsion system for near term exploration missions to 100 AU and beyond*. *Acta Astron.* **44**, 159–166.

- POWELL J., MAISE, G., AND PANIAGUA, J. (2002) “The Compact MITEE-B Bimodal Nuclear Engine for unique new planetary science missions.” Paper given at 38th AIAA/SAE/ASME/ASEE Joint Propulsion Conference, Indianapolis, IN, July 07-10, 2002. AIAA paper #2002-3652.
- POWELL, J., MAISE, G., AND PANIAGUA, J. (2003) “HIP: A Hybrid NTP/NEP propulsion system for ultra fast robotic orbiter/lander missions to the outer solar system.” Paper given at 54th International Astronautical Congress of the International Astronautical Federation, the International Academy of Astronautics, and the International Institute of Space Law, Bremen, September 29–30, 2003. IAC paper # 03-S.P.02.
- POWELL, J., MAISE, G., AND PANIAGUA, J. (2003) “Pluto Orbiter/lander/sample return missions using the MITEE nuclear engine.” Paper given at Proceedings of the Aerospace Conference, 2003 IEEE. 8–15 March 2003., .
- POWELL, J., MAISE, G., AND PANIAGUA, J. (2004) Is NTP the key to exploring space? *Aerospace America* **42**, no. 1, 36–42.
- POWERS, R.M. (1978) *Planetary encounters* (Stackpole Books, Harrisburg, PA), 288 pp.
- PRATT, J.W. (1971) Does an observed sequence of numbers follow a simple rule? (Another look at Bode’s Law): Comment. *Jour. Amer. Statistical Assoc.* **66**, no. 335, 567–568.
- PRENTICE, A.J.R. (1990) Neptune’s Triton: a moon rich in dry ice and carbon? *Proc. Astron. Soc. Australia* **8**, 364–367.
- PRENTICE, A.J.R. (1992) Pluto and Charon: predicted composition and density. *Bull. Amer. Astron. Soc.* **24**, 963 (Abstract).
- PRENTICE, A. (1993) Origin and chemical composition of the Pluto–Charon system: the modern Laplacian perspective. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- PRENTICE, A. (1993) The origin and chemical composition of Pluto and Charon: chemically uniform models. *Proc. Astron. Soc. Australia* **10**, 189–195.
- PRENTICE, A. (1993) Origin by rotational fission of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **25**, 1131 (Abstract).
- PRENTICE, A.J.R. (2015) Ceres and Charon: Predictions for Chemical Composition, Physical Structure and Origin. *Lunar & Planetary Sci.* **46**, 2664 (Abstract).
- PRENTICE, A. (1993) Origin of Pluto and Charon: the fission hypothesis revisited. *Aust. Jour. Astron.* **5**, 111-119.
- PRENTICE, A. (2016) The binary fission model for the formation of the Pluto system. *Bull. Amer. Astron. Soc.* **48**, no. 7, 147 (Abstract).
- PRENTICE, A. (2019) Ultima Thule: a prediction for bulk chemical composition and physical structure, just in time for the New Horizons encounter. *Bull. Amer. Astron. Soc.* ??? (**233 AAAS Meeting**), 467.01 (Abstract).
- PRENTICE, A.J. (2019) Can the sublimation of dry ice explain the flattened, bilobate structure and spin rate of 2014 MU₆₉. *AGU Fall Meeting Abstracts* **P331**, 3541 (Abstract).
- PRENTICE, A.J.R. (2019) Ultima Thule: a prediction for the origin, bulk chemical composition, and physical structure, submitted prior to the New Horizons Spacecraft 100 Pixel LORRI Data Return. Submitted to *Pub. Astron. Soc. Australia*.
- PRENTICE, A. (2021) Arrokoth and the Pluto–Charon binary: towards a unified model of formation. *Bull. Amer. Astron. Soc.* **53**, 111.06 (Abstract).
- PRÊTRE, P. (1948) Positions de Pluton et de Comètes obtenues à l’Observatoire de Toulouse. *Jour. des Observateurs* **31**, 193–194.
- PRIALNIK, D. (2021) Modeling sublimation of ices during the early evolution of Kuiper Belt objects. *Bull. Amer. Astron. Soc.* **53**, 307.10 (Abstract).

- PRICE, H.W., CARRAWAY, J.B., MATOUSEK, STAEHLE, R.L., TERRILE, R.J., AND WYATT, E.J. (1996) *Pluto Express sciencecraft system design. Acta Astron.* **39**, 207–215.
- PRINN, R.G. (1993) “Chemistry and evolution of gaseous circumstellar disks.” In *Protostars and planets III* (E.H. Levy and J.I. Lunine, eds.), University of Arizona Press, Tucson 1005–1028.
- PRIWER, E.M., AND STEVENSON, D.J. (2019) A collisional formation model of 2014 MU₆₉ “Ultima Thule”. *AGU Fall Meeting Abstracts P33I*, 3537 (Abstract).
- PROTOPAPA, S., HERBST, T., AND BOEHNHARDT, H. (2007) Surface ice spectroscopy of Pluto, Charon, and Triton. *EPSC Abstracts* **2**, 103 (Abstract).
- PROTOPAPA, S., BÖEHNHARDT, H., HERBST, T., MERLIN, F., CRUIKSHANK, D.P., AND GRUNDY, W.M. (2007) Surface ice spectroscopy of Pluto and Charon resolved. *Bull. Amer. Astron. Soc.* **39**, 541–542 (Abstract).
- PROTOPAPA, S., AND BÖEHNHARDT, H. (2007) Surface ice spectroscopy of Pluto, Charon and Triton. *The Messenger* **129**, 58–60.
- PROTOPAPA, S., BÖEHNHARDT, H., HERBST, T.M., CRUIKSHANK, D.P., GRUNDY, W.M., MERLIN, F., AND OLKIN, C.B. (2008) Spectra of Pluto and Charon resolved up to 5 μm : implications for surface properties. *Asteroids, Comets, and Meteorites 2012*, 8150 (Abstract).
- PROTOPAPA, S., BÖEHNHARDT, H., HERBST, T.M., CRUIKSHANK, D.P., GRUNDY, W.M., MERLIN, F., AND OLKIN, C.B. (() 2 0 0, 8) Surface characterization of Pluto and Charon by L and M band spectra. *Astron. As*
- PROTOPAPA, S., BOEHNHARDT, H., HERBST, T.M., CRUIKSHANK, D.P., GRUNDY, W.M., MERLIN, F., AND OLKIN, C.B. (2009) Surface characterization of Pluto, Charon, and Triton using NACO observations. *EPSC Abstracts* **4**, 103 (Abstract).
- PROTOPAPA, S., BOEHNHARDT, H., BARRERA, L., GRUNDY, W.M., CRUIKSHANK, D.P., SUNSHINE, J.M., FEAGA, L.M., AND A’HEARN, M.F. (2011) Longitudinal and temporal variability of Pluto. *EPSC Abstracts* **6**, 512 (Abstract).
- PROTOPAPA, S., GRUNDY, W.M., AND TEGLER, S.C., BERGONIO, J., BOEHNHARDT, H., AND BARRERA, L. (2013) Absorption coefficients of the methane–nitrogen binary ice system: implications for Pluto. *Bull. Amer. Astron. Soc.* **45**, 303.03 (Abstract).
- PROTOPAPA, S., BERRY, K.L., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., GRUNDY, W.M., JENNINGS, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PHILIPPE, S., QUIRICO, E., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C., VERBISCHER, A.J., WEAVER, H.A., AND YOUNG, L.A. (2016) Methane to nitrogen mixing ratio across the surface of Pluto. *Lunar & Planetary Sci.* **47**, 2815 (Abstract).
- PROTOPAPA, S., GRUNDY, W.M., AND TEGLER, S.C. (2014) The methane-nitrogen mixing ratio across the surface of Pluto by means of a two-phase Hapke model. *Bull. Amer. Astron. Soc.* **46**, 404.07 (Abstract).
- PROTOPAPA, S., GRUNDY, W.M., TEGLER, S.C., AND BERGONIO, J.M. (2015) Absorption coefficients of the methane-nitrogen binary ice system: implications for Pluto. *Icarus* **253**, 179–188.
- PROTOPAPA, S., GRUNDY, W.M., REUTER, D.C., HAMILTON, D.P., DALLE ORE, C.M., COOK, J.C., CRUIKSHANK, D.P., PHILIPPE, S., QUIRICO, E., SCHMITT, B., PARKER, A., BINZEL, R., EARLE, A.M., ENNICO, K., HOWETT, C., LUNSFORD, A.W., OLKIN, C.B., SINGER, K.N., STERN, S.A., WEAVER, H.A., YOUNG, L., AND THE NEW HORIZONS SCIENCE TEAM. (2016) Unveiling Pluto’s global surface composition through modeling of New Horizons Ralph/LEISA data. *Bull. Amer. Astron. Soc.* **48**, no. 7, 161 (Abstract).

- PROTOPAPA, S., GRUNDY, W.M., REUTER, D.C., HAMILTON, D.P., DALLE ORE, C.M., COOK, J.C., CRUIKSHANK, D.P., PHILIPPE, S., QUIRICO, E., SCHMITT, B., BINZEL, R.P., EARLE, A.M., ENNICO, K., HOWETT, C.J.A., LUNSFORD, A.W., OLKIN, C.B., PARKER, A., SINGER, K.N., STERN, A., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SCIENCE TEAM. (2017) *Pluto's global surface composition through pixel-by-pixel Hapke modeling of New Horizons Ralph/LEISA data. Icarus* **287**, 218–228.
- PROTOPAPA, S., GRUNDY, W.M., REUTER, D.C., HAMILTON, D.P., DALLE ORE, C.M., COOK, J.C., CRUIKSHANK, D.P., SCHMITT, B., PHILIPPE, S., QUIRICO, E., BINZEL, R.P., EARLE, A.M., ENNICO, K., HOWETT, C.J.A., LUNSFORD, A.W., OLKIN, C.B., PARKER, A., SINGER, K.N., STERN, A., VERVISCHER, A.J., WEAVER, H.A., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2017) *Volatile and non-volatile physical properties across the surface of Pluto. Asteroids, Comets, and Meteorites* **2017**, 335 (Abstract).
- PROTOPAPA, S., CRUIKSHANK, D., DALLE ORE, C., GRUNDY, W., OLKIN, C., REUTER, D., HOWETT, C., SCIPIONI, F., COOK, J., SINGER, K.N., BEYER, R.A., SCHENK, P.M., STERN, A., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2018) *Are multiple coloring agents present across the surface of Pluto and its large satellite Charon? Bull. Amer. Astron. Soc.* **50**, 506.01 (Abstract).
- PROTOPAPA, S., OLKIN, C., GRUNDY, W., LI, J.Y., VERBISCHER, A., CRUIKSHANK, D.P., HOWETT, C.J.A., STERN, A., WEAVER, H.A., AND YOUNG, L.A. (2019) *2019 Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, Photometric properties of Pluto's main surface units. 7054 (Abstract).*
- PROTOPAPA, S., GRUNDY, W.M., CRUIKSHANK, D.P., REUTER, D., OLKIN, C., ENNICO SMITH, K., PARKER, J.W., SINGER, K.N., SPENCER, J.R., STERN, S.A., VERBISCHER, A., AND WEAVER, H.A., JR. (2019) *Surface compositions and colors of Pluto, its system of moons, and 2014 MU₆₉. AGU Fall Meeting Abstracts P42C, 04 (Abstract).*
- PROTOPAPA, S., OLKIN, C., GRUNDY, W., LI, J., VERBISCHER, A., CRUIKSHANK, D.P., HOWETT, C.J.A., STERN, A., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2019) *Photometric properties of Pluto's main surface units. ESPC–DPS Joint Meeting* **13**, 1026P (Abstract).
- PROTOPAPA, S., OLKIN, C., GRUNDY, W., LI, J., VERBISCHER, A., GAUTIER, T., COOK, J., REUTER, D., HOWETT, C., STERN, A., BEYER, R., PORTER, S., YOUNG, L., WEAVER, H., ENNICO, K., DALLE ORE, C., QUIRICO, E., SCIPIONI, F., AND SINGER, K. (2020) *Titan tholin like materials across the surface of Pluto. Bull. Amer. Astron. Soc.* **52**, no. 1, 438.03 (Abstract).
- PROTOPAPA, S., OLKIN, C.B., GRUNDY, W.M., LI, J.-Y., VERBISCHER, A., CRUIKSHANK, D.P., GAUTIER, T., QUIRICO, E., COOK, J.C., REUTER, D., HOWETT, C.J.A., STERN, A., BEYER, R.A., PORTER, S., YOUNG, L.A., WEAVER, H.A., ENNICO, K., DALLE ORE, C.M., SCIPIONI, F., AND SINGER, K. (2020) *VizieR Online Data Catalog: disk-resolved photometric properties of Pluto (Protopapa+, 2020). Originally published Astron. Jour.* **159**, 74p.
- PRYOR, W.R., MCCLINTOCK, W.E., LAWRENCE, G.M., AND CORDELLA, L.L. (1993) *Theoretical models of Pluto's UV spectrum. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- PUSCHELL, J.J. (2007) *Space systems: New Horizons. Aerospace America* **45**, no. 12, 94–96.
- PUTNAM, W.L. (2009) *The explorers of Mars Hill: more than a century of history at Lowell Observatory. (Lowell Observatory, Flagstaff, AZ), 289 pp.*
- PUTNAM, R.L. AND SLIPHER, V.M. (1932) *Searching out Pluto—Lowell's trans-Neptunian Planet X. Scientific Monthly* **34**, 5–21.
- QUALIZZA-MCDONALD, B.R. AND O'HARA, S.T. (2021) *The role of basal sliding in the migration of angular block terrain on Pluto. Lunar & Planetary Sci.* **52**, 1630 (Abstract).
- QUETSCH, A.M. (1981) *Methan-Atmosphäre auf Pluto. Sterne und Weltraum* **20**, 372.
- QUÉNISSET, F. (1930) *La transneptunienne. L'Astronomie* **44**, 227–231.
- QUÉNISSET, F. (1930) *La position de Pluton. L'Astronomie* **44**, 521–522.

- QUÉNISSET, F., MADWAR, M.R., AND GONESSIAT, F. (1930) *Pluton*. *L'Astronomie* **44**, 568.
- QUILLEN, A.C., GIANNELLA, D., SHAW, J.G., AND EBINGER, C. (2016) *Crustal failure on icy moons from a strong tidal encounter*. *Icarus* **275**, 267–280.
- QUILLEN, A.C., NICHOLS-FLEMING, F., CHEN, Y.Y., AND NOYELLES, B. (2017) *Obliquity evolution of the minor satellites of Pluto and Charon*. *Icarus* **293**, 94–113.
- QUILLEN, A.C., CHEN, Y.Y., NOYELLES, B., AND LOANE, S. (2018) *Tilting Styx and Nix but not Uranus with a spin-precession-mean-motion resonance*. *Cel. Mech. Dynam. Astr.* **130**, no. 2, 11.
- QUINLAN, G.D. (1993) *Planet X: a myth exposed*. *Nature* **363**, 18–19.
- QUINONES, J.M., VIDES, C., NELSON, R.M., BORYTA, M. AND MANNAT, K. (2018) *Bi-directional reflectance of icy surface analogs: a dual approach*. *Bull. Amer. Astron. Soc.* **50**, no. 2, 144.13 (Abstract).
- QUIRICO, E. AND SCHMITT, B. (1994) *Infrared spectroscopy of molecular solids and of CO and CH₄ trapped in nitrogen matrix*. *Bull. Amer. Astron. Soc.* **26**, 1170 (Abstract).
- QUIRICO, E. (1995) *Études spectroscopiques proche infrarouges des solides moléculaires: application à l'étude des surfaces glacées de Triton et Pluton*. Ph. D. dissertation, Université Joseph Fourier..
- QUIRICO, E., SCHMITT, B., BINI, R., AND SALVI, P.R. (1996) *Spectroscopy of some ices of astrophysical interest: SO₂, N₂, and N₂:CH₄ mixtures*. *Planetary and Spa. Sci.* **44**, 973–986.
- QUIRICO, E. AND SCHMITT, B. (1996) *A spectroscopic study of CO in diluted N₂ ice: applications for Triton and Pluto*. *Icarus* **128**, 181–188.
- QUIRICO, E. AND SCHMITT, B. (1997) *Near-infrared spectroscopy of simple hydrocarbons and carbon oxides diluted in solid N₂ and as pure ices: implication for Triton and Pluto*. *Icarus* **127**, 354–378.
- RABE, E. (1957) *Further studies on the orbital development of Pluto*. *Astrophys. Jour.* **125**, 240–244.
- RABE, E. (1957) *On the origin of Pluto and the masses of the protoplanets*. *Astrophys. Jour.* **125**, 290–295.
- RABINOWITZ, D.L., SCHAEFER, B.E., AND TOURTELLOTTE, S.W. (2006) *The fresh icy surfaces of Pluto-sized Trans-Neptunian Objects*. *Bull. Amer. Astron. Soc.* **38**, 556 (Abstract).
- RABINOWITZ, D.L., BARKUME, K., BROWN, M.E., ROE, H., SCHWARTZ, M., TOURTELLOTTE, S., AND TRUJILLO, C. (2006) *Photometric observations constraining the size, shape, and albedo of 2003 EL61, a rapidly rotating, Pluto-sized object in the Kuiper Belt*. *Astrophys. Jour.* **639**, 1238–1251.
- RABINOWITZ, D.L., BENECCHI, S.D., GRUNDY, W.M., THIROUIN, A., AND VERBISCHER, A.J. (2016) *Observations of mutual eclipses by the binary Kuiper Belt Object Manwe-Thorondor*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 40 (Abstract).
- RADEBAUGH, J. (2015) *Discoveries in the solar system: spreading the good word*. *Bull. Amer. Astron. Soc.* **47**, 219.01 (Abstract).
- RADEBAUGH, J., TELFER, M., PARTELI, E., BEYER, R.A., BERTRAND, T., FORGET, F., NIMMO, F., GRUNDY, W.M., MOORE, J.M., AND STERN, S.A. (2017) *Dunes as new evidence of recently active surface processes on Pluto*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 102.05 (Abstract).
- RADEBAUGH, J., TELFER, M.W., PARTELI, E.J.R., BEYER, R.A., AND KIRK, R.L. (2019) *The shapes and distributions of dunes on Pluto*. *Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18*, 7069 (Abstract).
- RADEBAUGH, J., MACKENZIE, S., BARNES, J., CABLE, M., SOLOMONIDOU, A., AND TURTLE, E. (2022) *Field studies for ocean worlds: Arabia as an analogue for Titan's equatorial sand seas*. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece*, **B5.1-0007-22**, (Abstract).
- RADIOTI, A., GRODENT, D., HILL, M., GÉRARD, J.-C., MCNUTT, JR., R.L., AND KRIMIGIS, S.M. (2008) *Hubble Space Telescope and New-Horizons simultaneous observations: evidence of particle acceleration in the Jovian magnetotail*. *EPSC Abstracts* **4**, 728 (Abstract).

- RADZIEVSKIJ, V.V., ARTEM'EV, A.V., DOLGOPOLOVA, E.A., KOKURINA, L.N., AND KORNIYASOVA, E.V. (1994) *Distribution of poles of the orbits of long-period comets ejected by a trans-Plutonian planet*. *Spa. Sci. Rev.* **27**, no. 4, 359–362.
- RAFKIN, S., SOTO, A., AND MICHAELS, T. (2016) *The effect of surface ice and topography on the atmospheric circulation and distribution of nitrogen ice on Pluto*. *Lunar & Planetary Sci.* **18**, EGU2016-4790 (Abstract).
- RAFKIN, S.C.R., SOTO, A., AND MICHAELS, T.I. (2016) *The effect of surface ice and topography on the atmospheric circulation and distribution of nitrogen ice on Pluto*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 145 (Abstract).
- RANDOL, B.M., ELLIOT, H.A., MCCOMAS, D.J., AND SCHWADRON, N.A. (2009) *Variability of pickup ions and possible correlations with the solar wind from New Horizons/SWAP around 11 AU*. *AGU Fall Meeting Abstracts* **SH13B**, 1522 (Abstract).
- RANDOL, B.M. AND MCCOMAS, D.J. (2010) “Density correlations between solar wind and pick-up ions with New Horizons/SWAP near 11 AU.” Paper given at *American Physical Society, Joint Fall 2010 Meeting of the Texas Sections of the APS, AAPT, Zone 13 of SPS and the National Society of Hispanic Physicists, October 21-23, 2010*, abstract FM2.007.
- RANDOL, B.M., EBERT, R.W., ALLEGRINI, F., MCCOMAS, D.J., AND SCHWADRON, N.A. (2010) *Reflections of ions in electrostatic analyzers: a case study with New Horizons/Solar Wind Around Pluto*. *AIP Review of Scientific Instruments* **81**, no. 11, 114501.
- RANDOL, B.M., MCCOMAS, D.J., AND ELLIOT, H.A. (2010) *Solar wind and pick-up ion energy spectra measured with New Horizons/SWAP between 11 and 12 AU*. *AGU Fall Meeting Abstracts* **SH34A**, 07 (Abstract).
- RANDOL, B.M., MCCOMAS, D.J., AND ELLIOT, H.A. (2011) *Isotropic spectra of pickup ions from New Horizons/SWAP at 11 and 17 AU*. *AGU Fall Meeting Abstracts* **SH11C**, 05 (Abstract).
- RANDOL, B.M. (2012) *Measurements of solar wind and pick-up ions from New Horizons/Solar Wind Around Pluto*. Ph. D. dissertation, U. Texas San Antonio, San Antonio, TX, 116 pp.
- RANDOL, B.M., MCCOMAS, D.J., AND SCHWADRON, N.A. (2013) *Interstellar pick-up ions observed between 11 and 22 AU by New Horizons*. *Astrophys. Jour.* **768**, 120–127.
- RANDOLPH, J.E. AND MCRONALD, A. (1992) *Solar system “fast mission” trajectories using aerogravity assist*. *Jour. Spacecraft and Rockets* **29**, no. 2, 223–232.
- RANNOU, P. AND DURRY, G. (2009) *Extinction layer detected by the 2003 star occultation on Pluto*. *Jour. Geophys. Res. Planets* **114**, E11013.
- RANNOU, P. AND WEST, R. (2018) *Supersaturation on Pluto and elsewhere*. *Icarus* **312**, 36–44.
- RAO, A.M.N. AND LUNINE, J.I. (1999) *Early atmospheres. Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- RAO, A.M.N. (2001) *Titan, Triton, Pluto, and Kuiper belt objects: A study of past and present atmospheres with grey and nongrey models*. Ph. D. dissertation, University of Arizona, Tucson, AZ, 186 pp.
- RAPAPORT, M., TEIXEIRA, R., LECAMPION, J.F., DUCOURANT, C., CAMARGO, J.I.B., AND BENEVIDES-SOARES, P. (2002) *Astrometry of Pluto and Saturn with the CCD meridian instruments of Bordeaux and Valinhos*. *Astron. Astrophys.* **383**, 1054–1061.
- RAPOSA, S., GRUNDY, W., TAN, S., LINDBERG, G., LIBBY, L., AND ENGLE, A. (2021) *Path to the $N_2+CO+CH_4$ Equation of State: results from laboratory experiments and theoretical modeling*. *Bull. Amer. Astron. Soc.* **53**, 114.03 (Abstract).
- RAPOSA, S., GRUNDY, W., TAN, S., LINDBERG, G., LIBBY, L., AND ENGLE, A. (2021) *Path to the $N_2+CO+CH_4$ Equation of State: results from laboratory experiments and theoretical modeling*. *Bull. Amer. Astron. Soc.* **53**, 307.05 (Abstract).

- RAPOSA, S.M., TAN, S.P., GRUNDY, W.M., LINDBERG, G.E., HANLEY, J., STECKLOFF, J.K., TEGLER, S.C., ENGLE, A.E., AND THIEBERGER, C.L. (2022) *Non-isoplethic measurement on the solid-liquid-vapor equilibrium of binary mixtures at cryogenic temperatures.* *Jour. Chemical Phys.* **157**, no. 6, 064201.
- RASIO, F.A. (2015) *A Black Widow's best friend?* *Science* **333**, 1712–1713.
- RATCLIFFE, M. (1998) *Pluto—the ninth planet.* *Jour. Brit. Astron. Assoc.* **108**, no. 5, 294.
- RATCLIFFE, M. AND LANG, A. (2000) *Pluto hunting season.* In “The sky show.” *Astronomy* **28**, no. 5, 72.
- RATH, I. (1963) *The star that did not twinkle* (San Antonio, TX, Naylor Co.), 134 pp.
- RATH, I.E. (1963) *Boy Planet Seeker* (Dodge City, KS, Rollie Jack Press), 108 pp.
- RATHBUN, J.A. AND SPENCER, J.R. (2006) *Loki, Io — Lava Lake model and ground-based observations on the eve of the New Horizons encounter.* *Bull. Amer. Astron. Soc.* **38**, 537 (Abstract).
- RATHBUN, J.A. AND SPENCER, J.R. (2007) *Groundbased observations of Io in support of the New Horizons flyby.* *Workshop on Ices, Oceans, and Fire: Satellites of the Outer Solar System, held August 13-15, 2007. Boulder, Colorado LPI Contribution No. 1357*, 116–117.
- RATHBUN, J.A. AND SPENCER, J.R. (2007) *Ground-based observations of Io In support of the New Horizons flyby.* *Lunar & Planetary Sci.* **38**, 2162 (Abstract).
- RATHBUN, J.A. AND SPENCER, J.R. (2007) *Ground-based observations of Io In support of the New Horizons flyby.* *Bull. Amer. Astron. Soc.* **39**, 438 (Abstract).
- RATHBUN, J.A., MCMILLIAN, K.B., KAMP, L.W., LOPES, R.M., AND SPENCER, J.R. (2012) *Io's active volcanoes from New Horizons MVIC and LORRI data.* *Bull. Amer. Astron. Soc.* **42**, 1012 (Abstract).
- RATHBUN, J.A., SPENCER, J.R., LOPES, R., AND KAMP, L. (2011) *Io's active volcanoes from New Horizons MVIC and LORRI Data.* *EPSC Abstracts* **6**, 1166 (Abstract).
- RATHBUN, J.A., KAMP, L.W., LOPES, R., AND SPENCER, J.R. (2011) *Tvashtar and other active Ionian volcanoes from New Horizons MVIC and LORRI data.* *Lunar & Planetary Sci.* **42**, 2207 (Abstract).
- RATHBUN, J.A., LOPES, R., AND SPENCER, J.R. (2012) *Io's active volcanoes during The New Horizons era: insights from LORRI and MVIC.* *Bull. Amer. Astron. Soc.* **44**, 301.05 (Abstract).
- RATHBUN, J.A., LOPES, R.M., HOWELL, R.R., TSANG, C.C., AND SPENCER, J.R. (2013) *Active Ionian Volcanoes from New Horizons: combining data from LORRI, MVIC, and LEISA.* *Lunar & Planetary Sci.* **44**, 1418 (Abstract).
- RATHBUN, J.A., SPENCER, J.R., TSANG, C., AND LOPES, R. (2013) *Io during the New Horizons era: insights from spacecraft and ground-based data.* *Bull. Amer. Astron. Soc.* **45**, 418.01.
- RATHBUN, J.A., SABALLET, S., LOPES, R.M.C., AND SPENCER, J.R. (2017) *Comparison of tidal dissipation models to global distribution of active Ionian volcanoes from Galileo NIMS, PPR, and New Horizons LEISA.* *Lunar & Planetary Sci.* **48**, 2348 (Abstract).
- RATHKE, A. (2004) “Testing for the Pioneer anomaly on a Pluto exploration mission.” Paper given at *3rd International Conference on Frontier Science - Physics and Astrophysics in Space.*, Frascati, Italy, 14-19 June 2004.6 pp..
- RAUSCHER, E.A. AND AMOROSO, R.L. (2011) “Orbiting the Moons of Pluto. Ch. 1” In *Complex solutions to the Einstein, Maxwell, Schrödinger and Dirac equations* (World Scientific Publishing Company, Hackensack, NJ), 1–8.
- RAFKIN, S., SOTO, A., AND MICHAELS, T. (2016) *The effect of surface ice and topography on the atmospheric circulation and distribution of nitrogen ice on Pluto.* *Geophys. Res. Abstracts* **18**, EGU2016–4790 (Abstract).
- RAULIN, F., COLL, P., GAZEAU, M.-C., AND SMITH, N. (1999) “Bioastronomical aspects of Titan and the giant planets.” Paper given at *Bioastronomy 99: a new era in bioastronomy.*, Sixth Bioastronomy Meeting, Kohala Coast, HI, 2–6 August, 1999.

- RAUT, U., KARNES, P.L., RETHERFORD, K.D., DAVIS, M.W., GLADSTONE, G.R., GREATHOUSE, T.K., WALTHER, B., AND CZAJKA, E. (2018) Performance and design of MgF₂ + Au coatings on aluminum mirrors: enabling far-ultraviolet solar occultation measurements for Europa-UVS. *Proc. SPIE, Space telescopes and instrumentation 2018: ultraviolet to gamma ray* **10699**, 2Z.
- RAUT, U., TEOLIS, B., KAMMER, J., HOWETT, C., RETHERFORD, K., AND GLADSTONE, R. (2019) Origin of Charon's red poles: new insights from exospheric modeling and solid methane photolysis. *ESPC-DPS Joint Meeting* **13**, 931R (Abstract).
- RAUT, U., TEOLIS, B.D., KAMMER, J.A., GIMAR, C.J., BRODY, J.S., GLADSTONE, G.R., HOWETT, C.J.A., PROTOPAPA, S., AND RETHERFORD, K.D. (2022) Role of dynamic photolysis in the origin of Charon's red polar albedo. *Lunar & Planetary Sci.* **53**, 1580 (Abstract).
- RAWAL, J.J. (1992) Are there rings around Pluto? *Bull. Astron. Soc. India* **19**, 198 (Abstract).
- RAWAL, J.J. AND NIKOURAVAN, B. (2011) Are there rings around Pluto? *Internat. Jour. of Fundamental Phys. Sci.* **1**, no. 1, 6–10 (Abstract).
- RAWLINS, D. (1968) The mysterious case of the planet Pluto. *Sky and Tel.* **35**, 160–162.
- RAWLINS, D. (1970) The great unexplained residuals in the orbit of Neptune. *Astron. Jour.* **75**, 856–857.
- RAYNSFORD, G.M. AND DAY, L.T. (1939) Photographic positions of asteroids, comet 1932c, and Pluto. *Astron. Jour.* **48**, 137–144.
- REACH, W.T. AND PERSON, M. (2015) Occultation by Pluto's atmosphere and other results from the Stratospheric Observatory for Infrared Astronomy. *IAU General Assembly* **29**, #2257302 (Abstract).
- READ, C.B. (1969) The role of Tombaugh in the discovery of Pluto. *Sch. Sci. Math.* **69**, 331–332.
- REAVES, G. (1951) Kourganoff's contributions to the history of the discovery of Pluto. *Pub. Astron. Soc. Pacific* **63**, 49–60.
- REAVES, G. (1981) Book Review: *Planets X and Pluto*, by W.G. Hoyt *Jour. Hist. Astron.* **12**, 68.
- REAVES, G. (1984) Book Review: *The planet Pluto*, by A.J. Whyte. *Jour. Hist. Astron.* **42**, 60.
- REAVES, G. (1985) The origins of the symbol for the planet Pluto. *Pub. Astron. Soc. Pacific* **97**, 906 (Abstract).
- REAVES, G. (1989) The Mount Wilson search for a trans-Neptunian planet. *Pub. Astron. Soc. Pacific* **101**, 888 (Abstract).
- REAVES, G. (1992) Book Review: *Clyde Tombaugh: discoverer of Planet Pluto*, by D.H. Levy Univ. of Arizona Press, Tucson. 211 pp. *Jour. Hist. Astron.* **23**, 71.
- REAVES, G. (1993) The prediction and discoveries of Pluto and Charon. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- REED, F.E. (1980) Pluto—planet or asteroid? *Sky and Tel.* **60**, 190 (Letter to editor).
- REDDY, F. (2006) Pluto gets the boot! *Astronomy* **34**, no. 12, 78–79.
- REDDY, F. (2007) Does Pluto's big moon host volcanoes? *Astronomy* **35**, no. 11, 22.
- REED, J. (2002) It might be called Pluto. *Astron. Now* **16**, no. 8, 73–76.
- REGIUS, C. (2016) *Pluto & Charon: the New Horizons spacecraft at the farthest worldly shores*. (CreateSpace Independent Publishing Platform, Wiesbaden, Germany), 148 pp.
- REICHENBACH, O. (1875) "Two planets beyond Neptune and the motion of the solar system: a speculation." *In London* (???), ???.
- REICHHARDT, T. (1992) NASA ponders "faster, cheaper" way to send scientific mission to Pluto. *Nature* **358**, 701.
- REICHHARDT, T. (1994) Space scientists protest at decision to scrap plans for Pluto mission. *Nature* **372**, 117.
- REICHHARDT, T. (1996) A few (million) dollars more can keep Galileo exploring. *Nature* **382**, 745.

- REICHHARDT, T. (1996) *Pluto's portrait*. *Air & Space Smithsonian* **11**, no. 2, 56–61.
- REICHHARDT, T. (1996) *Hubble brings Pluto's surface into view*. *Nature* **380**, 91.
- REICHHARDT, T. (2000) *Doubts and uncertainties slow NASA's schedule*. *Nature* **405**, 4.
- REICHHARDT, T. (2000) *NASA set to move Pluto back up its priority list*. *Nature* **408**, 889.
- REICHHARDT, T. (2001) *NASA engages outside help for mission to Pluto*. *Nature* **414**, 571.
- REICHHARDT, T. (2002) *NASA aims to reach Pluto by 2020*. *Nature* **418**, 263.
- REICHHARDT, T. (2003) *Discovery of giant asteroid gives Pluto a rocky outlook*. *Nature* **419**, 546.
- REICHSTEIN, M. (1991) *Gesichter Plutos*. *Astronomie in der Schule* **28**, no. 5, 7–10.
- REIN, H. AND LIU, S.-F. (2012) *REBOUND: an open-source multi-purpose N-body code for collisional dynamics*. *Astron. Astrophys.* **537**, A128.
- REINECKE, D. AND VERTESI, J. (2021) *In the long run: managing the challenges of multi-generational space science*. *Bull. Amer. Astron. Soc.* **53**, no. 7, 504.06 (Abstract).
- REINSCH, K. AND PAKULL, M.W. (1987) *Pluto*. *IAU Circular No. 4272*, 3.
- REINSCH, K. AND PAKULL, M.W. (1987) *Physical parameters of the Pluto–Charon system*. *Astron. Astrophys.* **177**, L43–L46.
- REINSCH, K., SCHARF, T., PAKULL, M.W., BEUERMANN, K., BOUCHET, P., FESTOU, M., AND MOTCH, C. (1990) *The longitudinal albedo variation on Pluto*. *Astron. Ges. Abstr. Ser.* **4**, 6 (Abstract).
- REINSCH, K., BURWITZ, V., AND FESTOU, M.C. (1994) *Albedo maps of Pluto and improved physical parameters of the Pluto–Charon system*. *Icarus* **108**, 209–218.
- REITSEMA, H.J., VILAS, F., AND SMITH, B.A. (1983) *A charge-coupled device observation of Charon*. *Icarus* **56**, 75–79.
- REITSEMA, H.J. AND STERN, S.A. (1993) *A highly-integrated Pluto payload system for the Pluto Fast Flyby mission*. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- REKDAL, P. (2002) *The 'structure of Pluto.'* *Mich. Quart. Rev.* **41**, no. 2, 217–219.
- RENAUD, J.P., HENNING, W.G., SAXENA, P., NEVEU, M., BAGHERI, A., MANDELL, A., AND HURFORD, T. (2021) *Tidal dissipation in dual-body, highly eccentric, and non-synchronously rotating systems: applications to Pluto–Charon and the exoplanet TRAPPIST-1e*. *Planetary Sci. Jour.* **2**, no. 1, 4.
- RENAUDOT, G. (1916) *Planètes; satellites*. *L'Astronomie* **30**, 22.
- RENGEL, M., MÜLLER, T.G., LELLOUCH, E., BÖHNHARDT, H., STANSBERRY, J., AND TNOs TEAM. (2009) *TNOs are cool: a survey of the Transneptunian region. A Herschel Open Time Key Programme*. *Bull. Amer. Astron. Soc.* **41**, 47.09.
- RENNIE, J. (1996) *Unexpected thrills*. *Sci. Amer.* **274**, no. 5, 4.
- RENNIE, J. (2002) *Last chance for the last planet*. *Sci. Amer.* **286**, no. 5, 6.
- RENSCHEN, C.P. (1977) *An interpretation of Pluto's light variation*. *Astron. Nachr.* **298**, 179–184.
- RENSCHEN, C.P. (1978) *Pluto—eine überblick des heutigen erkenntnisstandes*. *Die Sterne* **54**, 114–118.
- RESNICK, A.C., BARRY, T., BUIE, M.W., CARRIAZO, C.Y., COLE, A., GAULT, D., GILES, B., GILES, D., HARTIG, K., HILL, K., HOWELL, R.R., HUDSON, G., LOADER, B., MACKIE, J., NELSON, M., OLKIN, C., REGISTER, J., RODGERS, T., SICARDY, B., SKRUTSKIE, M., VERBISER, A., WASSERMAN, L.H., WATSON, C., YOUNG, E., YOUNG, L., AND ZALUCHA, A. (2015) *The state of Pluto's bulk atmosphere at the time of the New Horizons encounter*. *Bull. Amer. Astron. Soc.* **47**, 210.15 (Abstract).

- RETFERFORD, KURT D., SPENCER, J.R., STERN, S.A., CHENG, A.F., SAUR, J., WEAVER, H.A., STROBEL, D.F., REUTER, D.C., STEFFL, A.J., GLADSTONE, G.R., PARKER, J.W., SLATER, D.C., LUNSFORD, A., LOPES, R.M., BAGENAL, F., THROOP, H.B., YOUNG, L.A., MOORE, J.M., AND NEW HORIZONS SCIENCE TEAM. (2007) *Io eclipse observations during the New Horizons Jupiter flyby*. *Bull. Amer. Astron. Soc.* **39**, 437 (Abstract).
- RETFERFORD, K.D., SPENCER, J.R., GLADSTONE, G.R., STERN, S.A., SAUR, J., STROBEL, D.F., SLATER, D.C., STEFFL, A.J., PARKER, J.W., VERSTEEG, M., DAVIS, M.W., THROOP, H., AND YOUNG, L.A. (2007) *Icy Galilean satellite UV observations by New Horizons and HST*. *AGU Fall Meeting Abstracts* **P53C**, 06 (Abstract).
- RETFERFORD, K.D., STERN, S.A., SLATER, D.C., GLADSTONE, G.R., DAVIS, M.W., PARKER, J.W., VERSTEEG, M.H., STEFFL, A.J., GREATHOUSE, T.K., AND CUNNINGHAM, N.J. (2009) *SwRI's Alice line of ultraviolet spectrographs*. *Proc. SPIE* **7441**, 11 (Abstract).
- RETFERFORD, K., SPENCER, J., ROTH, L., SAUR, J., AND STROBEL, D. (2010) *New Horizons LORRI observations of Io's plume atmospheres in eclipse*. *EGU Research Abstracts* **12**, 11457 (Abstract).
- RETFERFORD, K.D., STEFFL, A.J., STERN, S.A., PARKER, J., GLADSTONE, R., VERSTEEG, M., CUNNINGHAM, N., SLATER, D., AND DAVIS, M. (2010) *New Horizons Alice Observations of Io's UV atmospheric emissions*. *AGU Fall Meeting Abstracts* **P31B**, 1527 (Abstract).
- RETFERFORD, K.D., GLADSTONE, G.R., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K.A., OLKIN, C.B., CHENG, A.F., GREATHOUSE, T.K., HINSON, D.P., KAMMER, J.A., LINSOTT, I.R., PARKER, A.H., PARKER, J.W., PRYOR, W.R., SCHINDHELM, E., SINGER, K.N., STEFFL, A.J., STROBEL, D.F., SUMMERS, M.E., TSANG, C.C.C., TYLER, G.L., VERSTEEG, M.H., WOODS, W.W., CUNNINGHAM, N.J., AND CURDT, W. (2015) *Pluto's extended atmosphere: New Horizons Alice Lyman- α imaging*. *Bull. Amer. Astron. Soc.* **47**, 105.08 (Abstract).
- RETFERFORD, K.D. (2018) *Contemporary and future UV investigations of planetary atmospheres, aurora, and surfaces*. *AGU Fall Meeting Abstracts* **P24C**, 02 (Abstract).
- REUTER, D.C., SIMON-MILLER, A.A., LUNSFORD, A., BAINES, K.H., CHENG, A.F., JENNINGS, D.E., OLKIN, C.B., SPENCER, J.R., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2007) *Jupiter cloud composition, stratification, convection, and wave motion: a view from New Horizons*. *Science* **318**, 223–.
- REUTER, D., STERN, A., BAER, J., HARDAWAY, L., JENNINGS, D., MCMULDRICH, S., MOORE, J., OLKIN, C., PARIZEK, R., SABATKE, D., SCHERRER, J., STONE, J., VAN CLEVE, J., AND YOUNG, L. (2005) *Ralph: a visible/infrared imager for the New Horizons Pluto/Kuiper Belt mission*. *Proc. SPIE* **5906**, 433–443.
- REUTER, D.C., STERN, S.A., SCHERRER, J., JENNINGS, D.E., BAER, J., HANLEY, J., HARDAWAY, L., LUNSFORD, A., MCMULDRICH, S., MOORE, J., OLKIN, C., PARIZEK, R., REITSMA, H., SABATKE, D., SPENCER, J., STONE, J., THROOP, H., VAN CLEVE, J., WEIGLE, G.E., AND YOUNG, L.A. (2008) *Ralph: a Visible/Infrared Imager for the New Horizons Pluto/Kuiper Belt mission*. *Spa. Sci. Rev.* **140**, 129–154.
- REYES, M.D., MATOUSEK, S.E., AND ROSS, I.M. (1998) *Launch period analysis for the Jupiter Gravity Assist opportunities to Pluto*. *Advances in the Astronautical Sciences* **99**, no. 2, 94–99..
- REYNAUD, J.P. (2019) *A study of the tidal and thermal evolution of rocky & icy worlds utilizing advanced rheological models*. Ph. D. dissertation, George Mason University, Fairfax, VA, 164 pp.
- RENAUD, J.P., HENNING, W.G., SAXENA, P., HURFORD, T., AND MANDELL, A. (2020) *Tidal dissipation for non-synchronously rotating, binary systems: applied to Pluto-Charon and exoplanets*. *Lunar & Planetary Sci.* **51**, 2748 (Abstract).
- REYNAUD, P. (1919) “???” In *Étude sur le système solaire*. (librairie Gauthiers-Villars), ???.
- RENAUD, J., HENNING, W., SAXENA, P., NEVEU, M., BAGHERI, A., MANDELL, A., AND HURFORD, T. (2020) *Tidal dissipation in dual-body, highly Eccentric, and non-synchronously rotating systems: applications to exoplanets and the early history of Pluto-Charon*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 507.07 (Abstract).

- RENAUD, J.P., HENNING, W.G., SAXENA, P., NEVEU, M., BAGHERI, A., MANDELL, A., AND HURFORD, T. (2021) *Tidal dissipation in dual-body, highly eccentric, and nonsynchronously rotating systems: applications to Pluto–Charon and the exoplanet TRAPPIST-1e*. *Planetary Sci. Jour.* **2**, no. 1, 4.
- RHODEN, A.R., HENNING, W., HURFORD, T.A., BILLS, B.G., HAMILTON, D.P., AND WALKER, M. E. (2015) *The potential for current tidal-tectonic activity on Charon from obliquity tides*. *LPS* **46**, 2664 (Abstract).
- RHODEN, A.R., HENNING, W., HURFORD, T.A., AND HAMILTON, D.P. (2014) *The orbital and interior evolution of Charon as preserved in its geologic record*. *Bull. Amer. Astron. Soc.* **45**, 304.01 (Abstract).
- RHODEN, A.R., HENNING, W., HURFORD, T.A., AND HAMILTON, D.P. (2015) *The interior and orbital evolution of Charon as preserved in its geologic record*. *Icarus* **246**, 11–20.
- RHODEN, A.R., SKJETNE, HELLE L., HENNING, W.G., HURFORD, T.A., WALSH, K.J., STERN, S.A., OLKIN, C.B., SPENCER, J.R., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND THE NEW HORIZONS TEAM. (2019) *Charon: A brief history of tides*. *Jour. Geophys. Res. Planets* **125**, no. 7, e06449.
- RHODEN, A.R., SKJETNE, H., HENNING, W., HURFORD, T.A., WALSH, K.J., STERN, S.A., OLKIN, C.B., SPENCER, J.R., WEAVER, H.A., YOUNG, L.A., ENNICO, K., AND NEW HORIZONS TEAM. (2020) *Charon: a brief history of tides*. *Lunar & Planetary Sci.* **51**, 2815 (Abstract).
- RICHARDSON, J.D., BURLAGA, L.F., ELLIOTT, H., KURTH, W.S., LIU, Y.D., AND VON STEIGER, R. (2022) *Observations of the outer heliosphere, heliosheath, and interstellar medium*. *Spa. Sci. Rev.* **218**, no. 4, 35.
- RICHARDSON, R.S. (1942) *An attempt to determine the mass of Pluto from its disturbing effect on Halley’s comet*. *Pub. Astron. Soc. Pacific* **54**, 19–23.
- RICHARDSON, R.S. (1955) *New moons*. *A.S.P. Leaflet No. 316*, 1–8.
- RICHARDSON, R.S. (1958) *Rotation in the solar system*. *A.S.P. Leaflet No. 354*, 1–8.
- RICHMOND, M.L. AND NICHOLSON, S.B. (1943) *Positions of Jupiter’s satellites VI–XI, Saturn’s satellite IX (Phoebe), and Pluto*. *Pub. Astron. Soc. Pacific* **50**, 163–164.
- RICHMOND, M.L. (1944) *Ephemeris of Pluto*. *Pub. Astron. Soc. Pacific* **56**, 37.
- RICHMOND, M.L. (1944) *Ephemeris of Pluto*. *Pub. Astron. Soc. Pacific* **56**, 164–165.
- RICHMOND, M.L. (1945) *Positions of Pluto*. *Pub. Astron. Soc. Pacific* **57**, 217.
- RIDDLE, B. (2007) *And then there were eight*. *Science Scope* **30**, no. 5, 78–80.
- RIDPATH, I. (1973) *Pluto looks smaller than ever*. *Sci. News* **79**, no. 1113, 273.
- RIDPATH, I. (1978) *Pluto–planet or impostor?* *Astronomy* **6**, 6–11.
- RIEHL, J.P., BOROWSKI, S.K., AND DUDZINSKI, A. (1996) “Application of a small nuclear thermal/nuclear electric bimodal vehicle for planetary exploration.” Paper given at *Thirty-fourth Annual AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit*, Cleveland, OH, July 13–15, 1998.
- RIES, J. AND DUNCOMBE, R.L. (1980) *Search for a 6.38 day periodicity in the motion of Pluto*. *Bull. Amer. Astron. Soc.* **12**, 830 (Abstract).
- RINGWOOD, S. (2007) *Book Review: Is Pluto a planet? — a historical journey through the solar system*, by D. Weintraub. *Astron. Now* **21**, no. 6, 77.
- RIORDAN, K. (1980) *Review of Publications: Planets X and Pluto*, by W.G. Hoyt *Jour. Roy. Astron. Soc. Canada* **74**, 313–315.
- RIVERA-VALENTIN, E.G., KIRCHOFF, M., AND DALLE ORE, C.M. (2018) *Constraints on the impactor source for the Saturnian system from two independent tests*. *Bull. Amer. Astron. Soc.* **50**, 407.10 (Abstract).
- RIVKIN, A.S. (2016) *Ceres: the dwarf planet next door*. *Geological Soc. Amer. Annual Meeting* **P3**, 211-8 (Abstract).

- RIZVANOV, N., AND NEFEDJEV, JU. (2005) *Photographic observations of solar system bodies at the Engelhardt astronomical observatory (Research Note)*. *Astron. Astrophys.* **444**, 625–627.
- ROBERTS, I. (1892) *Photographic search for a planet beyond the orbit of Neptune*. *Mon. Not. Roy. Astron. Soc.* **52**, 501–502.
- ROBERTS, M.D. (1987) *The orbit of Pluto and the cosmological constant*. *Mon. Not. Roy. Astron. Soc.* **228**, 401–405.
- ROBBINS, S.J., SPENCER, J.R., BEYER, R., SCHENK, P.M., MOORE, J.M., MCKINNON, W.B., YOUNG, L.A., OLKIN, C., ENNICO, K., WEAVER, H.A., AND STERN, S.A. (2016) *Geologic map of New Horizons' encounter hemisphere of Charon, II*. *Geological Soc. Amer. Annual Meeting* **T160**, 48-4 (Abstract).
- ROBBINS, S.J., SINGER, K.N., BRAY, V.J., SCHENK, P., MCKINNON, W.B., RUNYON, K., WEAVER, H.A., ZANGARI, A., YOUNG, L.A., BEYER, R.A., PORTER, S., LAUER, T.R., MOORE, J.M., OLKIN, C.B., ENNICO, K., STERN, S.A., NEW HORIZONS GGI THEME TEAM, NEW HORIZONS PLUTO ENCOUNTER TEAM, NEW HORIZONS LORRI INSTRUMENT TEAM, AND NEW HORIZONS MVIC INSTRUMENT TEAM. (2016) *A consensus crater catalog of Pluto, Charon, and Nix*. *Lunar & Planetary Sci.* **47**, 1756 (Abstract).
- ROBBINS, S.J., SPENCER, J.R., BEYER, R.A., SCHENK, P., MOORE, J.M., MCKINNON, W.B., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., LINSKOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., TYLER, G.L., YOUNG, L.A., OLKIN, C.B., ENNICO, K., WEAVER, H.A., STERN, S.A., NEW HORIZONS GGI THEME TEAM, NEW HORIZONS PLUTO ENCOUNTER TEAM, NEW HORIZONS LORRI INSTRUMENT TEAM, AND NEW HORIZONS MVIC INSTRUMENT TEAM. (2016) “*Geologic map of New Horizons' encounter hemisphere of Charon.*” Paper given at *Annual Planetary Geologic Mappers Meeting*, 13–15 June 2016 Flagstaff, AZ.
- ROBBINS, S.J., SINGER, K.N., BRAY, V.J., SCHENK, P., LAUER, T.R., WEAVER, H.A., RUNYON, K., MCKINNON, W.B., BEYER, R.A., PORTER, S., WHITE, O.L., HOFGARTNER, J.D., ZANGARI, A.M., MOORE, J.M., YOUNG, L.A., SPENCER, J.R., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., LINSKOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., TYLER, G.L., OLKIN, C.B., ENNICO, K.S., STERN, S.A., AND THE NEW HORIZONS LORRI, MVIC INSTRUMENT TEAMS. (2017) *Craters of the Pluto–Charon system*. *Icarus* **287**, 187–206.
- ROBBINS, S.J., SPENCER, J.R., BEYER, R.A., SCHENK, P., MOORE, J.M., MCKINNON, W.B., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., LINSKOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., TYLER, G.L., YOUNG, L.A., OLKIN, C.B., ENNICO, K., WEAVER, H.A., STERN, S.A., NEW HORIZONS GGI THEME TEAM, NEW HORIZONS PLUTO ENCOUNTER TEAM, NEW HORIZONS LORRI INSTRUMENT TEAM, AND NEW HORIZONS MVIC INSTRUMENT TEAM. (2017) *Geologic map of New Horizons' encounter hemisphere of Charon, III*. *Lunar & Planetary Sci.* **48**, 1231 (Abstract).
- ROBBINS, S.J., SPENCER, J.R., BEYER, R.A., SCHENK, P., MOORE, J.M., MCKINNON, W.B., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., LINSKOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., TYLER, G.L., YOUNG, L.A., OLKIN, C.B., ENNICO, K., WEAVER, H.A., AND STERN, S.A. (2018) *Geologic map of New Horizons' encounter hemisphere of Charon, IV*. *Lunar & Planetary Sci.* **49**, 1741 (Abstract).
- ROBBINS, S.J., WATTERS, W.A., CHAPPELOW, J.E., BRAY, V.J., DAUBER, I.J., CRADDOCK, R.A., BEYER, R.A., LANDIS, M., OSTRACH, L.R., TORNABENE, L., RIGGS, J.D., AND WEAVER, B.P. (2017) *Invited Review: Measuring impact crater depth throughout the solar system*. *Meteoritics and Planetary Science* **???**, 1–44.

- ROBBINS, S.J., SPENCER, J.R., BEYER, R.A., SCHENK, P.M., MOORE, J.M., MCKINNON, W.B., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., LINSKOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., TYLER, G.L., YOUNG, L.A., OLKIN, C.B., ENNICO, K., WEAVER, H.A., AND STERN, S.A. (2018) "Geologic map of New Horizons' encounter hemisphere of Charon, V." Paper given at Annual Planetary Geologic Mappers Meeting, 12–14 June 2018 Knoxville, TN, 7036.
- ROBBINS, S.J., RUNYON, K., SINGER, K.N., BRAY, V.J., BEYER, R.A., SCHENK, P., MCKINNON, W.B., GRUNDY, W.M., NIMMO, F., MOORE, J.M., SPENCER, J.R., WHITE, O.L., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., LINSKOTT, I.R., REITSEMA, H.J., REUTER, D.C., SHOWALTER, M.R., TYLER, G.L., YOUNG, L.A., OLKIN, C.B., ENNICO, K.S., WEAVER, H.A., AND STERN, S.A. (2018) Investigation of Charon's craters with abrupt terminus ejecta, comparisons with other icy Bodies, and formation implications: abrupt terminus ejecta craters on Charon. *Jour. Geophys. Res. Planets* **123**, no. 1, 20–36.
- ROBBINS, S.J., STERN, S.A., BINZEL, R.P., GRUNDY, W., HAMILTON, D., LOPES, R., MCKINNON, B., OLKIN, C., ROBBINS, S., AND STERN, A. (2018) A White Paper on Pluto follow on missions: background, rationale, and new mission recommendations. Submitted to arXiv:1808.07446
- ROBBINS, S.J., BEYER, R.A., SPENCER, J.R., GRUNDY, W.M., WHITE, O.L., SINGER, K.N., MOORE, J.M., DALLE ORE, C.M., MCKINNON, W.B., LISSE, C.M., RUNYON, K., BEDDINGFIELD, C.B., SCHENK, P., UMURHAN, O.M., CRUIKSHANK, D.P., LAUER, T.R., BRAY, V.J., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., LINSKOTT, I.R., REUTER, D.C., SHOWALTER, M.R., YOUNG, L.A., OLKIN, C.B., ENNICO, K.S., WEAVER, H.A., AND STERN, S.A. (2) 2019 Geologic landforms and chronostratigraphic history of Charon as revealed by a hemispheric geologic map. *Jour. Geophys. Res. Planets*, 124no. 1, 155–174.
- ROBBINS, S.J., SCHENK, P.M., AND SINGER, K.N. (2019) The Depth–Diameter relationship of well-preserved impact craters on Pluto and Charon. *Pluto System After New Horizons*, LPI Contribution No. 2133, Larchmont, MD, 2019 July 14–18, 7055 (Abstract).
- ROBBINS, S.J., KEANE, J.T., KINCZYK, M., RUNYON, K., BEDDINGFIELD, C.B., BEYER, R.A., GRUNDY, W.M., MOORE, J.M., MCKINNON, W.B., SCHENK, P.M., LAUER, T.R., BINZEL, R.P., VERBISCHER, A., PARKER, J., OLKIN, C.B., WEAVER, H.A., SPENCER, J.R., STERN, S.A., AND NH GEOLOGY, GEOPHYSICS, IMAGING SCIENCE THEME TEAM. (2019) Using Computer-Generated Imagery (CGI) for science and outreach on missions: New Horizons' encounter with the Pluto–Charon system and (486958) 2014 MU69. *Lunar & Planetary Sci.* **50**, 3057 (Abstract).
- ROBBINS, S.J., LISSE, C., SINGER, K., FERNANDEZ, Y., BAUER, J., PROTOPAPA, S., CHENG, A., WEAVER, H., MCKINNON, W., KAVELAARS, J., STERN, S., SPENCER, J., OLKIN, C., PARKER, J., MOORE, J., UMURHAN, O., GRUNDY, W., YOUNG, L., VERBISCHER, A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS, IMAGING SCIENCE THEME TEAM. (2020) Comets sourced by KBOs: comparison of cometary size-frequency distributions with outer solar system craters. *Bull. Amer. Astron. Soc.* **52**, no. 1, 220.04 (Abstract).
- ROBBINS, S.J., SCHENK, P.M., RIGGS, J.D., PARKER, A.H., BRAY, V.J., BEDDINGFIELD, C.B., BEYER, R.A., VERBISCHER, A.J., BINZEL, R., AND RUNYON, K.D. (2021) Depths of Pluto's and Charon's craters, and their simple-to-complex transition. *Icarus* **356**, 113902.
- ROBBINS, S., STERN, A., BINZEL, R., GRUNDY, W., HAMILTON, D., LOPES, R., MCKINNON, B., AND OLKIN, C. (2021) Pluto system follow on missions: background, rationale, and new mission recommendations. *Planetary Science and Astrobiology Decadal Survey 2023-2032 white paper*; *Bull. Amer. Astron. Soc.* **53**, no. 4, e-id. 193.
- ROBBINS, S.J. AND SINGER, K.N. (2021) Pluto and Charon impact crater populations: reconciling different results. *Planetary Sci. Jour.* **2**, no. 5, 192.
- ROBUCHON, G. AND NIMMO, F. (2010) Thermal evolution of Pluto and implications for surface despinning and subsurface oceans. *Icarus* **216**, 426–439 AGU Fall Meeting AbstractsP24A09 (Abstract).

- ROBUCHON, G. AND NIMMO, F. (2011) *Thermal evolution of Pluto and implications for surface tectonics and a subsurface ocean.* *Icarus* **216**, 426–439.
- RODDIER, F., BRAHIC, A., DUMAS, C., GRAVES, J.E., HAN, B., NORTHCUTT, M.J., OWEN, T., AND RODDIER, C. (1997) *Adaptive optics observations of solar system objects.* *Bull. Amer. Astron. Soc.* **29**, 1023 (Abstract).
- ROE, H.G., TOKUNAGA, A., AND SCHALLER, E.L. (2008) *Methane in Plutoid atmospheres: update on Pluto and upper limits on Eris and Makemake.* *Bull. Amer. Astron. Soc.* **40**, 461 (Abstract).
- ROE, H.G. (2006) *Methane in Pluto’s atmosphere.* *Bull. Amer. Astron. Soc.* **38**, 542 (Abstract).
- ROE, H.G., COOK, J.C., MACE, G.N., HOLLER, B.J., YOUNG, L.A., MCLANE, J.N., AND JAFFE, D.T. (2015) *Pluto’s atmosphere in 2015 from high-resolution spectroscopy.* *Bull. Amer. Astron. Soc.* **47**, 210.18 (Abstract).
- ROEMER, E. AND LLOYD, R.E. (1966) *Observations of comets, minor planets, and satellites.* *Astron. Jour.* **71**, 443.
- ROGERS, G.D., SCHWINGER, M.R., KAIDY, J.T., AND STRIKWERDA, T.E. (2006) “Autonomous star tracker performance for the New Horizons mission.” Paper given at *AIAA/AAS Astrodynamics Specialist Conference and Exhibit, Keystone, CO, 21-24 August 2006, AIAA paper #2006-6383.*
- ROGERS, G.D., SCHWINGER, M.R., KAIDY, J.T., AND STRIKWERDA, T.E. (2006) “Autonomous star tracker performance for the New Horizons mission.” Paper given at *AIAA/AAS Astrodynamics Specialist Conference and Exhibit, 57th International Astronautical Conference Valencia, Spain, IAC paper #06-D1.2.01.*
- ROGERS, G.D., SCHWINGER, M.R., AMBROSE, H.H., AND KAIDY, J.T. (2007) “57th International Astronautical Congress” Paper given at *Valencia, Spain, AIAA paper #2007-6729, .*
- ROGERS, G.D., SCHWINGER, M.R., KAIDY, J.T., STRIKWERDA, T.E., CASINI, R., LANDI, A., BETTARINI, R., AND LORENZINI, S. (2009) *Autonomous star tracker performance.* *Acta Astronautica* **65**, no. 1, 61–74.
- ROGERS, G. AND HEFTER, S. (2022) *Radioisotope Thermolectric Generator effects on the dynamics of spacecraft.* *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, PSD.1-0030-22, (Abstract).*
- ROGOZIN, Y.I. (2012) *On the relation of the sizes of trans-neptunian dwarf planets Pluto and Eris.* Submitted to *arXiv:1203.0524*
- ROIG, F., NESVORNY, D., AND FERRAZ-MELLO, S. (1999) *Close approaches of the trans-Neptunian Objects to Pluto left observable signatures on their orbital distribution.* 1999 **Bull. Amer. Astron. Soc.**, 311094 (Abstract).
- ROJAS, G., DORAN, R., AND ALMEIDA, M.L. (2022) *Space exploration in the classroom: interventions in Portuguese schools.* *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, PE.2-0005-22, (Abstract).*
- ROSEBROOK, S. (1996) *Pluto telescope.* *Arizona Highways* **72**, no. 5, 54.
- ROSENBERG, K.E. AND JOHNSON, S.G. (2006) “Assembly and testing of a radioisotope power system for the New Horizons spacecraft.” Paper given at *4th International Energy Conversion Engineering Conference, San Diego, CA. AIAA paper #2006-4192.*
- ROSER, J., DALLE ORE, C.M., CRUIKSHANK, D., AND RICCA, A. (2018) *Laboratory study of ammonia indices of refraction with water ice.* *Bull. Amer. Astron. Soc.* **50**, 506.03 (Abstract).
- ROSER, J.E., RICCA, A., CARTWRIGHT, R.J., DALLE ORE, C., AND CRUIKSHANK, D.P. (2021) *The infrared complex refractive index of amorphous ammonia ice at 40 K (1.43-22.73 μm) and its relevance to outer solar system bodies.* *Planetary Sci. Jour.* **2**, 240.
- ROSS, F.E. (1930) *Positions of Pluto on early plates.* *Astron. Nachr.* **239**, 117.

- ROSSI, G.B., VIEIRA-MARTINS, R., CAMARGO, J.I., AND ASSAFIN, M. (2013) *Detailed astrometric analysis of Pluto*. *Bull. Amer. Astron. Soc.* **44**, 204.43 (Abstract).
- ROSSI, G., VIEIRA-MARTINS, R., SICARDY, B., AND ORTIZ, J.L. (2017) *Stellar occultations by TNOs and Centaurs: first results in the “Gaia era”*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 04.09 (Abstract).
- ROTH, L., SAUR, J.S., RETHERFORD, K.D., STROBEL, D.F., AND SPENCER, J.R. (2009) *Modelling Io’s auroral emission and the interaction of the moon’s atmosphere-ionosphere with the Jovian magnetosphere*. *AGU Fall Meeting Abstracts* **SM23**, 1605 (Abstract).
- ROTHENBERG, M. (1981) *Book Review: Planets X and Pluto, by W.G. Hoyt* *Isis* **72**, 148.
- ROTHERY, D.A. (1992) “Unseen worlds. Ch. 8” In *Satellites of the outer planets: worlds in their own right* (Clarendon Press, NY), 174–180.
- ROTHERY, D.A. (1992) “What next? Ch. 9” In *Satellites of the outer planets: worlds in their own right* (Clarendon Press, NY), 181–186.
- ROTHMAN, T. (1988) *God takes a nap—a computer finds that Pluto’s orbit is chaotic*. *Sci. Amer.* **259**, no. 4, 20.
- ROUGIER, G. (1931) *Séance du samedi 18 avril 1931*. *L’Astronomie* **45**, 247.
- ROURE, H. (1934) *Calcul d’une inégalité à longitude de Pluton due à l’action d’Uranus*. *Jour. des Observateurs* **17**, 53–58.
- ROURE, H. (1935) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **18**, 1–14.
- ROURE, H. (1935) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **18**, 33–51.
- ROURE, H. (1935) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **18**, 93–105.
- ROURE, H. (1935) *Essai d’une théorie analytique de Pluton*. *Errata*. *Jour. des Observateurs* **18**, 112.
- ROURE, H. (1935) *Détermination du moyen mouvement de Pluton d’après observations*. *Jour. des Observateurs* **18**, 205–208.
- ROURE, H. (1936) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **19**, 27–29.
- ROURE, H. (1936) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **19**, 73–76.
- ROURE, H. (1936) *Essai d’une théorie analytique de Pluton*. *Erratum*. *Jour. des Observateurs* **19**, 92.
- ROURE, H. (1937) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **20**, 89–94.
- ROURE, H. (1937) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **20**, 145–149.
- ROURE, H. (1937) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **20**, 89–94.
- ROURE, H. (1937) *Essai d’une théorie analytique de Pluton*. *Jour. des Observateurs* **20**, 145–149.
- ROURE, H. (1940) *Sur une inégalité à longue période du moyen de Pluton due aux actions perturbatrices de Jupiter et de Saturne*. *Jour. des Observateurs* **23**, 37–43.
- ROURE, H. (1940) *Sur une inégalité à longue période du moyen de Pluton due aux actions perturbatrices d’Uranus et de Neptune*. *Jour. des Observateurs* **23**, 53–54.
- ROURE, H. (1940) *Détermination du moyen mouvement de Pluton d’après les observations*. *Jour. des Observateurs* **23**, 55.
- ROURE, H. (1940) *Sur une inégalité à longue période de l’excentricité de l’orbite de Pluton due à l’action de Neptune*. *Jour. des Observateurs* **23**, 121–124.
- ROUSH, T.L., CRUIKSHANK, D.P., BROWN, R.H., OWEN, T.C., AND BARTHOLOMEW, M.J. (1993) *Modeling the reflectance spectra of Pluto and Charon*. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- ROUSH, T.L. (1993) *Charon: not just water ice?* *Bull. Amer. Astron. Soc.* **25**, 1129 (Abstract).
- ROUSH, T.L. (1994) *Charon: more than water ice?* *Icarus* **108**, 243–254.

- ROUSH, T.L., CRUIKSHANK, D.P., POLLACK, J.B., YOUNG, E.F., AND BARTHOLOMEW, M.J. (1996) *Near-infrared spectral geometric albedos of Charon and Pluto: constraints on Charon's surface composition. Icarus* **119**, 214–218.
- ROUSH, T.L., POLLACK, J.B., CRUIKSHANK, D.P., YOUNG, E.F., AND BARTHOLOMEW, M.J. (1994) *The geometric albedo of Charon. Bull. Amer. Astron. Soc.* **26**, 1169 (Abstract).
- ROUSH, T.L. AND CRUIKSHANK, D.P. (1994) “Surface ices in the outer solar system.” Paper given at *Conference on deep Earth and planetary volatiles*, pp. 40–41.
- ROUSH, T.L., CRUIKSHANK, D.P., POLLACK, J.B., YOUNG, E.F., AND BARTHOLOMEW, M.J. (1995) *Near-infrared geometric albedos of Charon and Pluto: constraints on Charon's surface composition. Lunar & Planetary Sci.* **26**, 1191–1192 (Abstract).
- ROUSH, T.L., CRUIKSHANK, D.P., POLLACK, J.B., YOUNG, E.F., AND BARTHOLOMEW, M.J. (1996) *Near-infrared spectral geometric albedos of Charon and Pluto: constraints on Charon's surface composition. Icarus* **119**, 214–218.
- ROUSH, T.L. (1997) *Optical constants of amorphous water ice in the near-infrared. Lunar & Planetary Sci.* **28**, 1199 (Abstract).
- ROUSH, T.L. (1998) *Compositional interpretation of solar system surfaces beyond the Jupiter system. Eos* **79**, no. 45, F544 (Abstract).
- ROUSSELOT, P., BELSKAYA, I.N., AND PETIT, J. (2006) *Do The phase curves of KBOs present any correlation with their physical and orbital parameters? Bull. Amer. Astron. Soc.* **38**, 565 (Abstract).
- ROY, A.E. (1979) “Empirical stability criteria in the many-body problem.” In *Instabilities in dynamical systems: applications to celestial mechanics*, (D. Reidel Publishing Co., Dordrecht), 177–210.
- ROY, A.E. (1980) *The stability and evolution of the solar system. Moon and Planets* **22**, 67–81.
- ROY, A.E., WALKER, I.W., MACDONALD, A.J., WILLIAMS, I.P., FOX, K., MURRAY, C.D., MILANI, A., NOBILI, A.M., OF SATELLITES, AND ASTEROIDS. ESSAGE, P.J., SINCLAIR, A.T., AND CARPINO, M. (1988) *Project LONGSTOP. Vistas in Astronomy* **32**, 95–116.
- ROY, K.I., KENNEDY, III, R.G., AND FIELDS, D.E. (2013) *Colonizing the Plutoids: the key to human expansion into the Galaxy. Jour. Brit. Interplanetary Soc.* **66**, 318–327.
- ROZENBAUM, S. (1991) *Plutón–Caronte: un planeta de verdad. Universo* **11**, no. 35, 9–13.
- ROZI, E.M. AND PAPADIMITRIOU, Z. (2022) *Pluto is lost! 44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, PE.2-0007-22*, (Abstract).
- ROZNER, M., GRISHIN, E., AND PERETS, H.B. (2020) *The wide-binary origin of the Pluto–Charon system. Mon. Not. Roy. Astron. Soc.* **497**, no. 4, 5264–5270.
- ROZNER, M., GRISHIN, E., AND PERETS, H.B. (2021) *The wide-binary origin of Pluto–Charon. Bull. Amer. Astron. Soc.* **53**, 205.05 (Abstract).
- RUBASHEVSKII, A.A. (1966) *A method for determining the diameter of Pluto from occultation observations (remarks on Halliday's paper). Astron. Zh.* **43**, 157.
- RUBASHEVSKII, A.A. (1966) *A method for determining the diameter of Pluto from occultation observations (remarks on Halliday's paper). Soviet Astron.* **10**, 124–127.
- RUBIN, M. (2013) *The effect of Rayleigh-Taylor instabilities on the thickness of undifferentiated crust on Kuiper Belt Objects like Charon. Ph. D. dissertation, Arizona State University, Tempe, AZ.*
- RUBIN, M., ALTWEGG, K., BALSIGER, H., BAR-NUN, A., BERTHELIER, J.-J., BIELER, A., BOCHSLER, P., BRIOIS, C., CALMONTE, U., COMBI, M., DE KEYSER, J., DHOOGHE, F., EBERHARDT, P., FIETHE, B., FUSELIER, S.A., GASC, S., GOMBOSI, T.I., HANSEN, K.C., HÄSSIG, M. JÄCKEL, A., KOPP, E., KORTH, A., LE ROY, L., MALL, U., MARTY, B., MOUSIS, O., OWEN, T., RÈME, H., SÉMON, T., TZOU, C.-Y., WAITE, J.H., AND WURZ, P. (2015) *Molecular nitrogen in comet 67P/Churyumov-Gerasimenko indicates a low formation temperature. Science* **348**, no. 6231, 232–235.

- RUBINCAM, D.P. (2000) *Pluto and Charon: a case of precession-orbit resonance?* *Jour. Geophys. Res.* **105**, 26745–26756.
- RUBINCAM, D.P. (2001) “*Pluto and Triton: interactions between volatiles and dynamics.*” Paper given at *Forum on Innovative Approaches to Outer Planetary Exploration*, 21–22 February, Houston, TX, abstract no. 4043.
- RUBINCAM, D.P. (2003) *Polar wander on Triton and Pluto due to volatile migration.* *Icarus* **163**, 469–478.
- RUBINCAM, D.P. (2009) *Pluto insolation and the south polar cap.* *AGU Spring Meeting Abstracts* **P31C**, 04.
- RUDY, R.J., VENTURINI, C.C., LYNCH, D.K., MAZUK, S., PUETTER, R.C., AND BRAD-PERRY, R. (2003) *0.8–2.5 micron reflectance spectroscopy of Pluto.* *Pub. Astron. Soc. Pacific* **115**, 484–489.
- RUHLAND, C.T., BLOW, G., BROUGHTON, J., BUIE, M., CHRISTIE, G., DICKIE, R., FRENCH, R., GAULT, D., GEORGE, M., JAQUIERY, P., LADE, B., NATUSCH, T., OLKIN, C., REGESTER, J., SHOEMAKER, K., YOUNG, E., AND YOUNG, L. (2006) *The Pluto stellar occultation of 2006 June 12: observations and joint analysis.* *Bull. Amer. Astron. Soc.* **38**, 541 (Abstract).
- RUMSTAY, K.S. (2006) *Eustace Tilley views our profession: the astronomer as portrayed in the cartoons of The New Yorker Magazine.* *Bull. Amer. Astron. Soc.* **38**, 206–207 (Abstract).
- RUNYON, K.D., STERN, S.A., LAUER, T.R., GRUNDY, W., SUMMERS, M.E., AND SINGER, K.N. (2017) *A geophysical planet definition.* *Lunar & Planetary Sci.* **48**, 1448 (Abstract).
- RUNYON, K.D., METZGER, P.T., STERN, S.A., AND BELL, J. (2019) *Dwarf planets are planets, too: planetary pedagogy after New Horizons.* *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7016 (Abstract).
- RUPPE, H.O. AND SCHLINGLOFF, H. (1998) “*Assessment of a European Pluto flyby mission.*” Paper given at *DeutscherLuft- und Raumfahrtkongress 1998*, abstract #130.
- RUSSELL, C.T. AND LUHMANN, J.G. (1993) *Plasma, magnetic, and electromagnetic measurements at Pluto.* *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- RUSSELL, C.T. (2008) *Foreword.* *New Horizons: reconnaissance of the Pluto–Charon System and the Kuiper Belt.* *Spa. Sci. Rev.* **140**, 1–2.
- RUSSELL, C.T. (2009) *New Horizons: reconnaissance of the Pluto–Charon system and the Kuiper Belt.* (New York, Springer), 402 pp.
- RUSSELL, H.N. (1930) *Planet X.* *Sci. Amer.* **143**, 20.
- RUSSELL, H.N. (1930) *How Pluto’s orbit was figured out.* *Sci. Amer.* **143**, 364.
- RUSSELL, H.N. (1930) *More about Pluto.* *Sci. Amer.* **143**, 446.
- RUSSELL, H.N. (1931) *Refining Pluto’s orbit: closer calculations of the orbit of the recently discovered planet.* *Sci. Amer.* **144**, no. 2, 90–91.
- RUSSELL, H.N. (1931) *More about Pluto.* *Jour. Roy. Astron. Soc. Canada* **25**, 27–34.
- RUSSELL, H.N. (1931) *Refining Pluto’s orbit.* *Jour. Roy. Astron. Soc. Canada* **25**, 64–69.
- RUSSELL, H.N. (1931) *Correction to Russell’s article.* *Jour. Roy. Astron. Soc. Canada* **25**, 225.
- RUSSELL, H.N. (1932) *New light on Pluto.* *Sci. Amer.* **146**, 268–269.
- RUSSELL, H.N. (1935) *The atmospheres of the planets.* *Science* **81**, no. 2088, 1–9.
- RYL’KOV, V.P., BRANNIKOVA, N.M., DEMENT’EVA, A.A., AND ALKSNIS, A.K. (1993) *Photographic positional observations of Pluto in 1991.* *Kinematika i Fizika Nebesnykh Tel.* **9**, no. 4, 22–29.
- RYL’KOV, V.P., VITYAZEV, V.V., AND DEMENTIEVA, A.A. (1995) *Pluto: an analysis of photographic positions obtained with the Pulkovo normal astrograph in 1939–1992.* *Astron. Astrophys. Transactions* **6**, 265–281.

- RYL'KOV, V.P., DEMENT'EVA, A.A., ALKSNIS, A.K., AND STRAUME, J.I. (1996) *Photographic observations of Pluto 1991–1994 with the Baldone Schmidt telescope*. *Astron. Astrophys. Supp.* **118**, 105–110.
- RYL'KOV, V.P., DEMENT'EVA, A.A., AND NARIZHNAJA, N.V. (1997) *Data archive of Pulkovo Normal Astrograph plates obtained during 1949–1996*. *Baltic Astron.* **6**, 331.
- RYL'KOV, V.P., DEMENT'EVA, A.A., AND NARIZHNAJA, N.V. (1997) *The Pulkovo catalog of 284 positions of Pluto in 1930–1994 based on observations from three observatories*. *Baltic Astron.* **6**, 349–350.
- RYMER, R. (1988) *Waiting for Pluto*. *The Sciences* **28**, no. 4, 2–4.
- RYMER, A.M., RUNYON, K.D., CLYDE, B., NÚÑEZ, J.I., NIKOUKAR, R., SODERLUND, K.M., SAYANAGI, K., HOFSTADTER, M., QUICK, L.C., STERN, S.A., BECKER, T., HEDMAN, M., COHEN, I., CRARY, F., FORTNEY, J.J., VERTESI, J., HANSEN, C., DE PATER, I., PATY, C., SPILKER, T., STALLARD, T., HOSPODARSKY, G.B., SMITH, H.T., WAKEFORD, H., MORAN, S.E., ANNEX, A., SCHENK, P., OZIMEK, M., ARRIETA, J., MCNUTT, JR., R.L., MASTERS, A., SIMON, A.A., ENSOR, S., APLAND, C.T., BRUZZI, J., PATTHOFF, D.A., SCOTT, C., CAMPO, C., KRUPIARZ, C., COCHRANE, C.J., GANTZ, C., RODRIGUEZ, D., AND GALLAGHER, D. (2021) *Neptune Odyssey: a Flagship concept for the exploration of the Neptune-Triton system*. *Planetary Sci. Jour.* **2**, no. 5, 184.
- SACKS, L.E., NEISH, C.D., AND RHODEN, A.R. (2021) *Canyon formation on Charon and Tethys*. *Bull. Amer. Astron. Soc.* **53**, no. 7, 106.05 (Abstract).
- SADLER, P.M. (1988) *William Pickering's search for a planet beyond Neptune*. *Bull. Amer. Astron. Soc.* **20**, 948 (Abstract).
- SADLER, P.M. (1990) *William Pickering's search for a planet beyond Neptune*. *Jour. Hist. Astron.* **21**, 59–64.
- SAGE, L.J. (2003) *Second light: Pluto's expanding atmosphere*. *Jour. Roy. Astron. Soc. Canada* **97**, 171.
- SAGE, L.J. (2011) *Second light: Pluto's twin?* *Jour. Roy. Astron. Soc. Canada* **105**, 264.
- SAGMILLER, D. AND HARTWIG, J. (2020) *Survey of cryogenic nitrogen thermomechanical property data relevant to outer solar system bodies*. *Earth and Spa. Sci.* **7**, no. 9, e00640.
- SAHA, P. AND TREMAINE, S. (1994) *Long-term planetary integration with individual time steps*. *Astron. Jour.* **108**, 1962–1969.
- SALVO, C.G. (1993) “Small spacecraft conceptual design for a Pluto Fast Flyby mission.” Paper given at AIAA/AHS/ASEE Aerospace Design Conference, AIAA-93-1003, Irvine, California, February 16–19.
- SALVO, C.G. (1993) *Blazing the trail to Pluto*. *Ad Astra* **5**, no. 5, 42–46.
- SAMPSON, R.A. (1931) *TA supposed Planet beyond Neptune*. *Mon. Not. Roy. Astron. Soc.* **70**, 344–346.
- SAMPSON, R.A. (1931) *The planet Pluto and its prediction*. *Jour. Brit. Astron. Assoc.* **42**, 134–135.
- SANCHEZ, D.M., PRADO, A.F.B.A., AND YOKOYAMA, T. (2014) “Gravitational capture and maintenance of a spacecraft around Pluto.” Paper given at AIAA/AAS Astrodynamics Specialist Conference and Exhibit, San Diego, CA. AIAA paper #2014-4280.
- SÁNCHEZ, S., STOSS, R., AND NOMEN, J. (2003) *Pluto Observations [620 Observatorio Astronomico de Mallorca*. *Minor Planet Circular* 48617, 2.
- SANDERS, W.L. (1965) *A near occultation of a star by Pluto*. *Pub. Astron. Soc. Pacific* **77**, 298–299.
- SANDFORD, S.A., ALLAMANDOLA, L.J., BREGMAN, J.D., COHEN, M., CRUIKSHANK, D.P., DUMAS, C., ENNICO, K., GREENE, T., HUDGINS, D., KWOK, S., LORD, S.D., MADDEN, S.C., MCCREIGHT, C.R., ROELLIG, T.L., STRECKER, D.W., TIELENS, A.G., WERNER, M.W., AND WILMOTH, K. (2003) *Organics in the solar system and the Astrobiology Explorer (ABE) mission*. *Bull. Amer. Astron. Soc.* **35**, 1002 (Abstract).
- SANDNER, W. (1973) *Jenseits von Pluto*. *Bild Wiss* **10**, 241–248.

- SANTIAGO RIDAO, L., AVALOS, R., DE CICCIO, M.D., AND BELLINI, M. (2014) *Perihelion advances for the orbits of Mercury, Earth and Pluto from Extended Theory of General Relativity (ETGR)*. *Canadian Jour. Phys.* **92**, no. 12, 1709–1713.
- SASAKI, T., KANNO, A., ISHIGURO, M., KINOSHITA, S., AND NAKAMURA, R. (2005) *Search for nonmethane hydrocarbons on Pluto*. *Astrophys. Jour.Lett.* **618**, L57–L60.
- SASAKI, T., KANNO, A., ISHIGURO, M., KINOSHITA, S., AND NAKAMURA, R. (2005) *Presence of nonmethane hydrocarbons on Pluto*. *Lunar & Planetary Sci.* **36**, no. 1591 (Abstract).
- SASAKI, T., ISHIGURO, M., KINOSHITA, D., AND NAKAMURA, R. (2006) “*Infrared high-resolution spectroscopy of Pluto by Subaru Telescope*.” In *Advances in Geosciences, Volume 3: Planetary Science (PS)*. Editor-in-Chief: Wing-Huen Ip. Volume Editor-in-Chief: Anil Bhardwaj. (World Scientific Co., Singapore), 281.
- SATORRE, MA., PALUMBO, M.E., AND STRAZZULLA, G. (2001) *Infrared spectra of N₂ rich ice mixtures*. *Jour. Geophys. Res.Planets* **106**, 33363–33370.
- SATORRE, M.A., BERNABEU, G., AND STRAZZULLA, G. (2001) “*Effect of N₂ on H₂O infrared absorption bands: applications to Triton and Pluto*.” In *Highlights of Spanish astrophysics II, Proceedings of the 4th Scientific Meeting of the Spanish Astronomical Society (SEA), held in Santiago de Compostela, Spain, September 11-14, 2000* (Dordrecht, Kluwer Academic Publishers), 265.
- SAUER, K., LIPATOV, A., BAUMGÄRTEL, K., AND DUBININ, E. (1997) *Solar wind–Pluto interaction revised*. *Adv. Spa. Res.* **20**, 295–299.
- SAUNDER, R.S. (2000) “*NASA’s solar system exploration program*.” Paper given at *Space 2000 Conference, Long Beach, CA, AIAA paper #2000-5324*.
- SAVITSKY, A. (2023) *Lifting the veil: alien planets are shrouded in hazes that hide clues to their makeup. Lab experimentants could help clear the view*. *Science* **379**, no. 6628, 130–133.
- SAXENA, P., RENAUD, J.P., HENNING, W.G., MARTIN, J., AND HURFORD, T. (2018) *Relevance of tidal heating on large TNOs*. *Icarus* **302**, 245–260.
- SAWYER, S.R. (1986) *Time resolved spectrophotometry of Pluto*. Thesis, Univ. of Texas at Austin, Austin, TX.
- SAWYER, S., BARKER, E., COCHRAN, A., AND COCHRAN, B. (1987) *Pluto*. IAU Circular No. 4401, 2.
- SAWYER, S.R., BARKER, E.S., COCHRAN, A.L., AND COCHRAN, W.D. (1987) *CCD spectrophotometry of Pluto–Charon mutual events*. *Bull. Amer. Astron. Soc.* **19**, 859 (Abstract).
- SAWYER, S.R., BARKER, E.S., COCHRAN, A.L., AND COCHRAN, W.D. (1987) *Spectrophotometry of Pluto–Charon mutual events: individual spectra of Pluto and Charon*. *Science* **238**, 1560–1563.
- SAWYER, S.R. (1989) *Reflectance spectroscopy of the surface and atmosphere of Pluto–Charon*. *Bull. Amer. Astron. Soc.* **21**, 986 (Abstract).
- SAWYER, S.R. (1989) *Reflectance spectroscopy of the surface and atmosphere of Pluto–Charon*. *Eos* **70**, 386 (Abstract).
- SAXENA, P. AND SUMMERS, M. (2011) *An external source for Charon’s atmosphere: accretion of Pluto’s atmosphere*. *Bull. Amer. Astron. Soc.* **43**, 224.10 (Abstract).
- SAXENA, P., RENAUD, J.P., HENNING, W.G., JUTZI, M., AND HURFORD, T. (2018) *Relevance of tidal heating on large TNOs*. *Icarus* **302**, 245–260.
- SATYAL, S., QUARLES, B., AND ROSARIO-FRANCO, M. (2022) *Moon packing around an Earth-mass planet*. *Mon. Not. Roy. Astron. Soc.* **516**, no. 1, 39–52.
- SCAFETTA, N., MILANI, F., AND BIANCHINI, A. (2020) *Multiscale analysis of the instantaneous eccentricity oscillations of the planets of the solar system from 13 000 BC to 17 000 AD*. *Astronomy Lett.* **45**, no. 11, 778–790.
- SCARFE, C. (1988) *The rotations of planets with satellites*. *Jour. Roy. Astron. Soc. Canada* **82**, 80–81 (Letter to editor).

- SCHAAF, F. (1989) *Book Review: Planets beyond: discovering the outer solar system*, by M. Littman. *Sky and Tel.* **77**, 161–162.
- SCHAEFER, B.E., BUIE, M.W., AND SMITH, L.T. (2008) *Pluto's light curve in 1933–1934*. *Icarus* **197**, 500–598.
- SCHAEFER, B.E., RABINOWITZ, D.L., AND TOURTELLOTTE, S.W. (2009) *The diverse solar phase curves of distant icy bodies II. The cause of the opposition surges and their correlations*. *Astron. Jour.* **137**, 129–144.
- SCHAEFER, B.E. AND RABINOWITZ, D.L. (2002) *Photometric light curve for the Kuiper Belt Object 2000 EB173 on 78 nights*. *Icarus* **160**, 52–58.
- SCHAEFER, E.D., MEHOKE, D.S., ERCOL, C.J., AND VERNON, S.R. (2007) “Implementation challenges using Radioisotope power generation in space systems.” Paper given at *Space 2007, Long Beach, CA*, AIAA paper #2007.6112.
- SCHALLER, E.L. AND BROWN, M.E. (2007) *Volatile loss and retention on Kuiper Belt Objects*. *Astron. Jour.* **659**, L61–L64.
- SCHALLER, E.L. (2010) *Atmospheres and surfaces of small bodies and dwarf planets in the Kuiper Belt*. *EPJ Web of Conferences* **9**, 267–276.
- SCHARF, C. (2010) *An embellished tale of Pluto's discovery*. *Nature* **466**, 693–694.
- SCHECHTMAN, D. (1945) *Pluto's advance of perihelion*. *Pop. Astron.* **53**, 42–43.
- SCHECHTMAN, D. (2004) *To Pluto in 1.5 years by nuclear electric rocket*. *Acta Astronautica* **55**, no. 11, 959–964.
- SCHENK, P.M. (1991) *Outer planet satellites*. *Rev. Geophys. Supp.* **29**, 297–305.
- SCHENK, P. (1993) *The geology of Pluto: lessons from Triton*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- SCHENK, P. AND MALHOTRA, R. (1993) *Pluto and Charon: planets on the edge*. *Lunar and Planetary Information Bulletin* **68**, 8–9.
- SCHENK, P.M., MCKINNON, W.B., MOORE, J., NIMMO, F., STERN, S.A., WEAVER, H., ENNICO, K., OLKIN, C., AND YOUNG, L. (2015) *A large impact origin for Sputnik Planum and surrounding terrains, Pluto?* *Bull. Amer. Astron. Soc.* **47**, 200.06 (Abstract).
- SCHENK, P., BRAY, V.J., MCKINNON, W.B., WHITE, O.L., AND MOORE, J.M. (2014) *Crater morphologies on Pluto and Charon: anticipating New Horizons*. *AGU Fall Meeting Abstracts* **P33**, B4032 (Abstract).
- SCHENK, P.A., BEYER, R.A., MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., HOWARD, A.D., WHITE, O.M., UMURHAN, O.M., SINGER, K., STERN, S.A., WEAVER, H.A., YOUNG, L.A., SMITH, K.E., OLKIN, C.B., AND NEW HORIZONS GEOLOGY AND GEOPHYSICS IMAGING TEAM. (2016) *Topographic mapping of Pluto and Charon using New Horizons data*. *International Archives of the Photogrammetry, Remote Sensing, and Spatial Information Sciences* **XLI–B4**, 487–489.
- SCHENK, P. AND NIMMO, F. (2016) *New Horizons at Pluto*. *Nature Geoscience* **9**, 411–412.
- SCHENK, P., SINGER, K., ROBBINS, S., BRAY, V., BEYER, R., MOORE, J., MCKINNON, W.B., SPENCER, J., RUNYON, K., STERN, S.A., YOUNG, L.A., OLKIN, C., ENNICO, K., AND WEAVER, H.A. (2016) *Topography of Pluto and Charon: impact cratering*. *Lunar & Planetary Sci.* **47**, 2795 (Abstract).
- SCHENK, P.M. (2016) *Cousins twice removed: the Pluto v. Triton Kuiper Belt rivalry revisited*. *Geological Soc. Amer. Annual Meeting* **P3**, 211-5 (Abstract).
- SCHENK, P., BEYER, R., SINGER, K., ROBBINS, S., MOORE, J., MCKINNON, W., AND STERN, S.A. (2017) *Topography of dwarf planets in the Kuiper Belt: New Horizons at Pluto*. *Asteroids, Comets, and Meteorites* **2017**, 336–337 (Abstract).

- SCHENK, P.M., BEYER, R.A., MOORE, J.M., YOUNG, L., ENNICO, K., OLKIN, C., WEAVER, H.A., AND STERN, S.A. (2017) *Global correlation and non-correlation of topography with color and reflectance on Pluto*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 215.06 (Abstract).
- SCHENK, P., BEYER, R., MOORE, J., MCKINNON, W., SPENCER, J., STERN, S., OLKIN, C., ENNICO, K., AND WEAVER, H. (2018) *High-resolution topography of Pluto and Charon: getting down to details*. *Lunar & Planetary Sci.* **49**, 2300 (Abstract).
- SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., MOORE, J.M., SPENCER, J.R., WHITE, O.L., SINGER, K., UMURHAN, O.M., NIMMO, F., LAUER, T.R., GRUNDY, W.M., ROBBINS, S., STERN, S.A., WEAVER, H.A., YOUNG, L.A., SMITH, K.E., OLKIN, C., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS INVESTIGATION TEAM. (2018) *Breaking up is hard to do: global cartography and topography of Pluto's mid-sized icy Moon Charon from New Horizons*. *Icarus* **315**, 124–145.
- SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., MOORE, J.M., SPENCER, J.R., WHITE, O.L., SINGER, K., NIMMO, F., THOMASON, C., LAUER, T.R., ROBBINS, S., UMURHAN, O.M., GRUNDY, W.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO SMITH, K., OLKIN, C., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS INVESTIGATION TEAM. (2018) *Basins, fractures and volcanoes: global cartography and topography of Pluto from New Horizons*. *Icarus* **314**, 400–433.
- SCHENK, P., GRUNDY, W.M., HANSEN, C.J., HOWETT, C., AND PROCKTER, L.M. (2019) *Triton's surface composition: reevaluation of Voyager colors from the perspective of New Horizons at Pluto*. *AGU Fall Meeting Abstracts* **P53D**, 3492 (Abstract).
- SCHENK, P., SIZEMORE, H., SCHMIDT, B., CASTILLO-ROGEZ, J., DE SANCTIS, M., BOWLING, T., SCULLY, J., BUCZKOWSKI, D., QUICK, L., PREUSKER, F., PARK, R., RAYMOND, C., RUSSELL, C., AND DAWN SCIENCE TEAM. (2019) *The central pit and dome at Cerealia Facula bright deposit and floor deposits in Occator crater, Ceres: morphology, comparisons and formation*. *Icarus* **320**, 159–187.
- SCHENK, P.M. (2020) *The search for Europa's plumes: no surface patterns or changes 1979–2007?* *Astrophys. Jour. Lett.* **892**, no. 1, L12.
- SCHENK, P.M. (2020) *The diversity of active (and inactive) icy worlds*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 200.04 (Abstract).
- SCHENK, P., CASTILLO-ROGEZ, J., OTTO, K.A., MARCHI, S., O'BRIEN, D., BLAND, M., HUGHSON, K., SCHMIDT, B., SCULLY, J., BUCZKOWSKI, D., KROHN, K., HOOGENBOOM, T., KRAMER, G., BRAY, V., NEESEMANN, A., HIESINGER, H., PLATZ, T., DE SANCTIS, M.C., SCHROEDER, S., LE CORRE, L., MCFADDEN, L., SYKES, M., RAYMOND, C., AND RUSSELL, C.T. (2021) *Compositional control on impact crater formation on mid-sized planetary bodies: Dawn at Ceres and Vesta, Cassini at Saturn*. *Icarus* **359**, 1143434.
- SCHENK, P., SINGER, K., GREENSTREET, S., ROBBINS, S., BRAY, V., MCKINNON, W., WHITE, O., SPENCER, J., WEAVER, H., LAUER, T., MOORE, J., STERN, S.A., BEYER, R., YOUNG, L., AND OLKIN, C. (2019) *Impact craters on Pluto: size–frequency distributions, morphologies, terrain sges. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7043* (Abstract).
- SCHENK, P., BEYER, R., BEDDINGFIELD, C., MOORE, J., OLKIN, C., SPENCER, J., WEAVER, H., AND STERN, A. (2019) *Topography of pits & troughs on Ultima Thule (2014 MU69) from New Horizons*. *ESPC-DPS Joint Meeting* **13**, 1140S (Abstract).
- SCHENK, P., STRYK, T., O'HARA, S., MCKINNON, W.B., MOORE, J., KEANE, J., BEDDINGFIELD, C.B., BEYER, R., AND PROCKTER, L. (2020) *Triton v. Pluto: topography mapping of two Kuiper Belt ocean worlds*. *Lunar & Planetary Sci.* **51**, 2639 (Abstract).
- SCHENK, P., SINGER, KELSIE N., BEYER, R., BEDDINGFIELD, C., ROBBINS, S.J., MCKINNON, W.B., LAUER, T.R., VERBISCHER, A.J., KEANE, J.T., DHINGRA, R.D., MOORE, J., PARKER, J.W., OLKIN, C., SPENCER, J., WEAVER, H., AND STERN, S.A. (2021) *Origins of pits and troughs and degradation on a small primitive planetesimal in the Kuiper Belt: high-resolution topography of (486958) Arrokoth (aka 2014 MU69) from New Horizons*. *Icarus* **356**, 113834.

- SCHENK, P., CARTWRIGHT, R., BEDDINGFIELD, C., AND CASTILLO-ROGEZ, J. (2022) “Uranian mid-sized icy moons: unique targets of exploration in the outer solar system.” Paper given at 16th Europlanet Science Congress 2022, 18–23 September 2022, Palacio de Congresos de Granada, Spain. EPSC2022-1245.
- SCHNEIDER, W.A., MOORE, J.L., BLAKNEY, T.L., SMITH, D.D., AND VACCHIONE, J.D. (1994) An ultra-lightweight high gain spacecraft antenna. *Antennas and Propagation Society International Symposium, 1994. AP-S. Digest* **2**, 886–889.
- SCHRIER, D. (2006) “Atlas launch vehicle integration of the New Horizons/Pluto mission.” Paper given at 57th International Astronautical Conference, Valencia, Spain. AIAA paper #2006-4030.
- SCHERF, M., LAMMER, H., ERKAEV, N.V., MANDT, K.E., THALLER, S.E., AND MARTY, B. (2020) Nitrogen atmospheres of the icy bodies in the solar system. *Spa. Sci. Rev.* **216**, no. 8, 123.
- SCHEWE, P.F. AND STEIN, B. (1992) *Star Fleet Planetary Classification Scheme*. *New Scientist* **104**, ??? June 20, 1992.
- SCHEWE, P.F. AND STEIN, B. (1992) Charon may be nothing but ice. *New Scientist* **104**, ??? Nov. 25, 1992.
- SCHEWE, P.F. (1996) Physics update. *Physics Today* **49**, no. 5, 9.
- SCHILLING, G. (1999) Pluto: the planet that never was. *Science* **283**, 157.
- SCHILLING, G. (1999) Pluto’s planetary status. Response. *Science* **283**, 937 (Letter to editor).
- SCHILLING, G. (1999) Submillimeter astronomy reaches new heights. *Science* **283**, 1836.
- SCHILLING, G. (2003) Comet ‘Factory’ found to have too little inventory. *Science* **301**, no. 5638, 253.
- SCHILLING, G. (2006) Long trek to solar system’s last frontier begins. *Science* **311**, no. 5758, 172.
- SCHILLING, G. (2006) Underworld character kicked out of planetary family. *Science* **311**, no. 5791, 1214–1215. ■
- SCHILLING, G. (2008) A bump in the night. *Sky and Tel.* **115**, no. 6, 24–27.
- SCHILLING, G. (2009) *The hunt for planet X: new worlds and the fate of Pluto*. (Copernicus/Springer, New York), 303 pp.
- SCHINDHELM, E., STERN, S., AND GLADSTONE, R. (2013) FUV Studies of Pluto and its Satellites: from HST to New Horizons. *Bull. Amer. Astron. Soc.* **45**, 303.04.
- SCHINDHELM, E., STERN, S., GLADSTONE, R., AND ZANGARI, A. (2015) Pluto and Charon’s UV spectra from IUE to New Horizons. *Icarus* **246**, 206–212.
- SCHINDHELM, R., HENDRIX, A., FLEMING, B., AND VOROBIEV, D. (2020) Science enabled by a far-ultraviolet multi-object spectrograph. *Bull. Amer. Astron. Soc.* **52**, no. 6, 001.08 (Abstract).
- SCHINDLER, K. (2017) Percival Lowell: a life in astronomy. *Astronomy* **45**, no. 4, 44–49.
- SCHMIDT, K.H. (2003) Book review: *Beyond Pluto — exploring the outer limits of the solar system*. by J. Davies *Sterne und Weltram* **42**, 95.
- SCHMITT, B. AND QUIRICO, E. (1992) Laboratory data on near-infrared spectra of ices of planetary interest. *Bull. Amer. Astron. Soc.* **24**, 968 (Abstract).
- SCHMITT, B., QUIRICO, E., DEBERGH, C., OWEN, T.C., AND CRUIKSHANK, D.P. (1993) The near-infrared spectra of Triton and Pluto: a laboratory analysis of the methane bands. *Bull. Amer. Astron. Soc.* **25**, 1129 (Abstract).
- SCHMITT, B., DOUTÉ, S., QUIRICO, E., BENCHKOURA, A. DEBERGH, C., OWEN, T.C., AND CRUIKSHANK, D.P. (1994) The state and composition of the surface of Pluto: laboratory experiments and numerical modeling. *Bull. Amer. Astron. Soc.* **26**, 1170 (Abstract).
- SCHMITT, B., QUIRICO, E., DOUTÉ, S., OWEN, T.C., DEBERGH, C., CRUIKSHANK, D.P., AND GEBALLE, T. (1995) Physical state and composition of the ices on Triton and Pluto. *Bull. Amer. Astron. Soc.* **27**, 1099 (Abstract).

- SCHMITT, B., PHILIPPE, S., GRUNDY, W.M., PROTOPAPA, S., CRUIKSHANK, D.P., QUIRICO, E., CÔTE, R., COOK, J.C., BERRY, K.L., BINZEL, R.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., JENNING, D.E., HOWETT, C.J.A., LINSKOTT, I.R., LUNSFORD A.W., OLKIN, C.B. PARKER, A.H., PARKER, J.W., REUTER, D.C., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C., VERBISER, A.J., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS SCIENCE TEAM (2016) *Mixing and physical state of Pluto's surface materials from New Horizons LEISA spectro-images*. *Lunar & Planetary Sci.* **47**, 2794 (Abstract).
- SCHMITT, B., PHILIPPE, S., GRUNDY, W., REUTER, D.C., QUIRICO, E., PROTOPAPA, S., CÔTE, R., YOUNG, L., BINZEL, R., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., HOWETT, C., JENNINGS, D., LINSKOTT, I., LUNSFORD, A.W., OLKIN, C.B., PARKER, J.W., PARKER, A., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C., VERBISER, A.J., WEAVER, H.A., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Distribution, physical state, and mixing of materials at the surface of Pluto from New Horizons*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 161 (Abstract).
- SCHMITT, B., PHILIPPE, S., GRUNDY, W., REUTER, D.C., CÔTE, R., QUIRICO, E., PROTOPAPA, S., YOUNG, L.A., BINZEL, R.P., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., ENNICO, K., HOWETT, C.J.A., JENNINGS, D.E., LINSKOTT, I.R., LUNSFORD, A.W., OLKIN, C.B., PARKER, A.H., PARKER, J.W., SINGER, K.N., SPENCER, J.R., STANSBERRY, J.A., STERN, S.A., TSANG, C.C.C., VERBISER, A.J., WEAVER, H.A., AND THE NEW HORIZONS SCIENCE TEAM. (2017) *Physical state and distribution of materials at the surface of Pluto from New Horizons LEISA imaging spectrometer*. *Icarus* **287**, 229–260.
- SCHMITT, B., GABASOVA, L., PHILIPPE, S., BERTRAND, T., GRUNDY, W., QUIRICO, E., FORGET, F., STANSBERRY, J., LEWIS, B., PROTOPAPA, S., DHINGRA, R., YOUNG, L.A., OLKIN, C.B., ???, D.C., STERN, S.A., AND WEAVER, H.A. (2018) *Evidence of local CH₄ stratification on Pluto from New Horizons LEISA data and a complete N₂ ice map*. *Bull. Amer. Astron. Soc.* **50**, 506.02 (Abstract).
- SCHMITT, B., GABASOVA, L., BERTRAND, T., GRUNDY, W., STANSBERRY, J., LEWIS, B., PROTOPAPA, S., YOUNG, L., OLKIN, C., REUTER, D., STERN, A., AND WEAVER, H. (2019) *Methane stratification on Pluto inferred from New Horizons LEISA data*. *Pluto System After New Horizons*, LPI Contribution No. 2133, Larchmont, MD, 2019 July 14–18, 7004 (Abstract).
- SCHMUDE, JR., R.W. (1991) *Uranus, Neptune, and Pluto: contributions that ALPO members can make*. *Strolling Astronomer* **35**, no. 2, 67–68.
- SCHMUDE, JR., R.W. (1991) *The remote planets: 1987–1990 report*. *Strolling Astronomer* **35**, 153–156.
- SCHMUDE, JR., R.W. (1991) *Observations of Uranus, Neptune, and Pluto in 1994*. *Strolling Astronomer* **39**, 127–130.
- SCHMUDE, JR., R.W. (2000) *Observations of the remote planets in 1998*. *Strolling Astronomer* **42**, no. 1, 3–17.
- SCHMUDE, JR., R.W. (2003) *The Uranus, Neptune and Pluto apparitions in 2001*. *Strolling Astronomer* **44**, no. 3, 22–31.
- SCHMUDE, JR., R.W. (2004) *The remote planets. The Uranus, Neptune and Pluto apparitions in 2002*. *Strolling Astronomer* **46**, no. 4, 47–55.
- SCHMUDE, JR., R.W. (2005) *Feature Story: The remote planets. The Uranus, Neptune and Pluto apparitions in 2003*. *Strolling Astronomer* **47**, no. 2, 38–43.
- SCHMUDE, JR., R.W. (2006) *Feature story: Uranus, Neptune & Pluto: observations during the 2004 apparitions*. *Strolling Astronomer* **48**, no. 2, 41–45.
- SCHMUDE, JR., R.W. (2008) *Uranus, Neptune, and Pluto and how to observe them*. (Astronomers' Observing Guides), Springer-Verlag, New York 232 pp.
- SCHOCK, A. AND OR, C.T. (1994) "Effect of fuel and design options on RTG performance versus PFF power demand." Paper given at 29th AIAA Intersociety Energy Conversion Engineering Conference, Monterey, CA, Aug. 7-11, 1994, AIAA Paper # 94-31925, 535–540.

- SCHOCK, A., OR, C.T., AND KUMAR, V. (1994) “Design modifications for increasing the BOM and EOM power output and reducing the size and mass of RTG for the Pluto mission.” Paper given at 29th AIAA Intersociety Energy Conversion Engineering Conference, Monterey, CA, Aug. 7-11, 1994, AIAA Paper # 94-31926, 541-547.
- SCHOCK, A., MUKUNDA, M., OR, C., AND SUMMERS, G. (1995) Analysis, optimization, and assessment of radioisotope thermophotovoltaic system design for an illustrative space mission. *AIP Conference Proceedings* **321**, 331-356.
- SCHOCK, A., MUKUNDA, M., OR, C., KUMAR, V., AND SUMMERS, G. (1995) Design, analysis, and optimization of radioisotope thermophotovoltaic (RTPV) generator and its applicability to an illustrative space mission. *Acta Astron.* **37**, 21-57.
- SCHOCK, A., NORAVIAN, H., AND OR, C. (1997) “Coupled thermal, electrical, and fluid flow analyses of AMTEC converters, with illustrative application to OSC’s cell design.” Paper given at 32nd Intersociety Energy Conversion Engineering Conference, 27 July-60 August 1997, Honolulu, HI, Vol. 2, 1156-1164.
- SCHOMAKER, W. (2001) On the hunt for modern moons. *Mercury* **30**, no. 2, 28-33.
- SCHORN, S. AND BENNINGFIELD, D. (???) “Pluto.” In *StarDate guide to the solar system*. The University of Texas at Austin McDonald Observatory 24.
- SCHUBART, J. (1977) Pluto-artige Bewegungstypen im Bereich der Jupiterbahn. *Mitt. Astron. Ges.* **42**, 78.
- SCHULZE, R.C. AND HILL, S. (2004) The New Horizons high gain antenna: reflector design for a spin-stabilized bus at cryogenic temperatures. *Proceedings of the 2004 IEEE Aerospace Conference* **2**, 966-977.
- SCHÜTTE, K. (1950) Comet families and a planet beyond Pluto. *Sternenwelt* **2**, 25-30.
- SCHWARZ, S.C. (1984) Spotting Pluto. *Astronomy* **12**, 33.
- SCIAMMA-O’BRIEN, E., ROUSCH, T.L., RANNOU, P., DUBOIS, D., AND SALAMA, F. (2023) First optical constants of laboratory-generated organic refractory materials (tholins) produced in the NASA Ames COSmIC Facility from the visible to the near infrared (0.41.6 μm): application to Titans aerosols. *Planetary Sci. Jour.* **4**, no. 7, 121.
- SCIPIONI, F., WHITE, O., DALLE ORE, C.M., CRUIKSHANK, D.P., GRUNDY, W.M., BINZEL, R.P., BUIE, M.W., COOK, J.C., EARLE, A.M., ENNICO, K., JENNINGS, D.E., HOWETT, C.J.A., LINSOTT, I.E., LUNSFORD, A.W., MOORE, J.M., MCKINNON, W.B., OLKIN, C.B., PARKER, A.H., PROTOPAPA, S., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STERN, S.A., WEAVER, H.A., VERBISCHER, A.J., AND YOUNG, L.A. (2018) Pluto’s Sputnik Planitia: spectral versus geological signature. *Lunar & Planetary Sci.* **49**, 1415 (Abstract).
- SCIPIONI, F., WHITE, O., COOK, J.C., BERTRAND, T., CRUIKSHANK, D.P., GRUNDY, W.M., BEDDINGFIELD-CARTWRIGHT, C., BINZEL, R.P., DALLE ORE, C.M., JENNINGS, D., MOORE, J.M., OLKIN, C.B., PROTOPAPA, S., REUTER, D.C., SCHMITT, B., SINGER, K.N., SPENCER, J.R., STERN, S.A., WEAVER, H.A., VERBISCHER, A.J., AND YOUNG, L.A. (2021) Pluto’s Sputnik Planitia: Composition of geological units from infrared spectroscopy. *Icarus* **359**, 114303.
- SEAGRAVE, F.E. (1930) Circular orbit elements of the trans-neptunian planet X. *Pop. Astron.* **38**, 355.
- SEAGRAVE, F.E. (1931) Ephemeris of Pluto. *Pub. Astron. Soc. Pacific* **43**, 85.
- SEAGRAVE, F.E. (1931) Ephemeris of Pluto. *Pop. Astron.* **39**, 92.
- SEAGRAVE, F.E. (1931) Ephemeris of Pluto for November 1, 1931 to March 1, 1932. *Pop. Astron.* **39**, 469.
- SEAGRAVE, F.E. (1931) Ephemeris of Pluto, 1931 February—May. *Astron. Jour.* **41**, 24.
- SEAGRAVE, F.E. (1931) Ephemeris of Pluto, November 1931—March 1932. *Astron. Jour.* **41**, 127.
- SEATON, M.J. (1980) Meeting of the Royal Astronomical Society. Friday, 1980 March 14th at 16^h00^m. *The Observatory* **100**, 101-106.

- SECCULL, T., FRASER, W., PUZIA, T., BROWN, M.E., FITZSIMMONS, A., HYLAND, M., AND IZAWA, M. (2018) *Uncovering signatures of refractory materials on KBOs and Centaurs by reflectance spectroscopy.* *Bull. Amer. Astron. Soc.* **50**, 509.11 (Abstract).
- SECCULL, T., FRASER, W.C., KIERSZ, D.A., AND PUZIA, T.H. (2024) *Hunting for hydrated minerals on trans-Neptunian Objects.* *Planetary Sci. Jour.* **5**, no. 2, 42.
- SECKINGER, D.S. (1993) *Book Review: Clyde Tombaugh: discoverer of Planet Pluto.* By D.H. Levy Univ. of Arizona Press, Tucson. 211 pp. *Jour. of the West* **32**, 88–89.
- SEDLMAYR, E. (1988) *Activities report of the Institute of Astronomy and Astrophysics. Annual Report, Technische Univ. Berlin, 1987.*
- SEE, T.J.J. (1909) *On the cause of the remarkable circularity of the orbits of the planets and satellites and on the origin of the planetary system.* *Note. Astron. Nachr.* **180**, 185–194.
- SEE, T.J.J. (1909) *The Laws of cosmical evolution and the extension of the solar system beyond Neptune.* *Pub. Astron. Soc. Pacific* **21**, no. 125, 60–71.
- SEE, T.J.J. (1910) *Researches on the evolution of stellar systems* (T.P. Nicholas, Lynn, MA), 375–376 pp.
- SÉGUÉLA, P. (2011) *Space probes: 50 years of exploration from Luna 1 to New Horizons* (Firefly Books, Ltd., Richmond Hill, Ontario, Canada), 376 pp.
- SEIDELMANN, P.K. (1971) *Limitations on outer planet mass determinations from their mutual perturbations.* *Bull. Amer. Astron. Soc.* **3**, 270–271 (Abstract).
- SEIDELMANN, P.K. (1971) *A dynamical search for a transplutonian planet.* *Astron. Jour.* **76**, 740–742.
- SEIDELMANN, P.K., KLEPCZINSKI, W.J., DUNCOMBE, R.L., AND JACKSON, E.S. (1971) *The mass of Pluto.* *Astron. Jour.* **76**, 488–492.
- SEIDELMANN, P.K., KLEPCZINSKI, W.J., DUNCOMBE, R.L., AND JACKSON, E.S. (1971) *Determination of the mass of Pluto.* *Bull. Amer. Astron. Soc.* **3**, 270 (Abstract).
- SEIDELMANN, P.K., KLEPCZYNSKI, W.J., DUNCOMBE, R.L., AND JACKSON, E.S. (1971) *Determination of the mass of Pluto.* *Astron. Jour.* **76**, 488–492.
- SEIDELMANN, P.K. (1972) *Limitations on outer planet mass determinations from their mutual perturbations.* *Cel. Mech.* **5**, 3–7.
- SEIDELMANN, P.K., MARSDEN, B.G., AND GICLAS, H.L. (1972) *Note on Brady’s hypothetical trans-Plutonian planet.* *Pub. Astron. Soc. Pacific* **84**, 858–864.
- SEIDELMANN, P.K., KAPLAN, G.H., PULKKINEN, K.F., SANTORO, E.J., AND VAN FLANDERN, T.C. (1980) *Ephemeris of Pluto.* *Icarus* **44**, 19–28.
- SEIDELMANN, P.K. AND HARRINGTON, R.S. (1988) *Planet X: the current status.* *Cel. Mech.* **43**, 55–68.
- SEIDELMANN, P.K. AND WILLIAMS, C.A. (1988) *Discussion of current status of Planet X.* *Cel. Mech.* **43**, 409–412.
- SEIDELMANN, P.K., ARCHINAL, B.A., A’HEARN, M.F., CONRAD, A., CONSOLMAGNO, G.J., HESTROFFER, D., HILTON, J.L., KRASINSKY, G.A., NEUMANN, G., OBERST, J., STOOKE, P., TEDESCO, E.F., THOLEN, D.J., THOMAS, P.C., AND WILLIAMS, I.P. (2007) *Report of the IAU/IAG Working Group on cartographic coordinates and rotational elements: 2006.* *Cel. Mech. Dyn. Astron.* **98**, no. 3, 155–180.
- SEKINE, Y., GENDA, H., KAMATA, S., AND FUNATSU, T. (2017) *The Charon-forming giant impact as a source of Pluto’s dark equatorial regions.* *Nature Astronomy* **1**, 0031.
- SENN, R.H. (1999) *The plight of Pluto.* *Natural History* **108**, no. 4, 8.
- SEPAN, R.L., BAKER, F.C., LINSKOTT, I.R., OUDRHIRI, K., AND VINCENT, M.A. (2016) *“Preparing and implementing the New Horizons uplink occultations: applying concepts, tools, and lessons learned over nearly a decade of flight to achieve a successful operation.”* Paper given at *SpaceOps 2016 Conference, Daejeon, Korea, AIAA paper #2016-2537.*

- SEVIN, E. (1946) *Sur la longitude et la masse d'une planète transplutonienne hypothétique X*. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **223**, 469–472.
- SEVIN, E. (1946) *Nouveaux aperçus sur la planète transplutonienne X*. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **223**, 653–655.
- SEVIN, E. (1946) ??? *Bull. de l'association des anciens élèves de l'école Polytechnique* **19**, 3.
- SEVIN, M.E. (1946) *Un planète transplutonienne*. *L'Astronomie* **60**, 188–189.
- SEYMOUR, I. (1995) *The search for the ninth planet*. *Astron. Now* **9**, 39–40.
- SFAIR, R., VIEIRA NETO, E., VILLA ESPINOZA, O.J., AND LEAL PINHEIRO, T.F.L. (2016) *Study of the sailboat stable region for binaries systems*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 147 (Abstract).
- SHAFFER, R. (1989) *Pluto at opposition*. *Astronomy* **17**, no. 5, 65–67.
- SHALLER, E.L. AND BROWN, M.E. (2007) *Volatile loss and retention on Kuiper Belt Objects*. *Astrophys. Jour.Lett.* **659**, L61–L64.
- SHANNON, A.B. AND DAWSON, R. (2018) *The dynamical imprint of lost protoplanets on the trans-Neptunian populations, and limits on the primordial size distribution of trans-Neptunian objects at Pluto and larger Sizes*. *Bull. Amer. Astron. Soc.* **49**, 400.004 (Abstract).
- SHANNON, A. AND DAWSON, R. (2018) *Limits on the number of primordial scattered disc objects at Pluto mass and higher from the absence of their dynamical signatures on the present-day trans-Neptunian populations*. *Mon. Not. Roy. Astron. Soc.* **480**, no. 2, 1870–1882..
- SHAPLEY, H. (1930) *Transneptunian planet?* *IAU Circular No.* 255.
- SHAPLEY, H. (1930) *Planet Pluto*. *IAU Circular No.* 288.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. In “Planet Notes,” *Pop. Astron.* **38**, 295–296.
- SHAPLEY, H., NICHOLSON, S.B., AND MAYALL, N.U. (1930) *Planet Pluto*. *IAU Circular No.* 289.
- SHAPLEY, H. (1930) *Trans-Neptunian planet*. *Harvard College Observatory Announcement Card* 108.
- SHAPLEY, H. (1930) ??? *Harvard College Observatory Announcement Card* 109.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 112.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 113.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 117.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 118.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 119.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 120.
- SHAPLEY, H. (1930) *Trans-neptunian planet*. *Harvard College Observatory Announcement Card* 121.
- SHAPLEY, H. (1930) *Observations of the transneptune*. *Acta Astron.* **1 Série C**, 102.
- SHAPLEY, H. (1930) *Pluto*. *Harvard College Announcement Card* 131.
- SHAPLEY, H. (1930) *Pluto*. *Harvard College Announcement Card* 133.
- SHAPLEY, H. (1930) *Pluto*. *Harvard College Announcement Card* 134.
- SHAPLEY, H. (1930) *Pluto*. *Harvard College Announcement Card* 136.
- SHAPLEY, H. (1930) *Pluto*. *Harvard College Announcement Card* 137.
- SHAPLEY, H. (1930) *Pluto*. *Harvard College Announcement Card* 157.
- SHAPLEY, H. (1932) *An early Harvard photograph of Pluto*. *Harvard College Observatory Bulletin* **886**, 4.
- SHARAF, SH.G. (1955) *Improvement of the elements of Pluto*. *Trudy Inst. Teoret. Astron. Akad. Nauk SSR* **4**, 1–131.
- SHARAF, SH.G. (1955) *Theory of the motion of the planet Pluto. Part I*. *NASA Technical Translation TT. F-490*.

- SHARAF, SH.G. AND BUDNIKOVA, N.A. (1964) *Theory of motion of the planet Pluto. Part II. Trudy Inst. Teoret. Astron. Akad. Nauk* **10**, 1–160.
- SHARAF, SH.G. AND BUDNIKOVA, N.S. (1969) *Theory of the motion of the planet Pluto. Part II. NASA Technical Translation TT. F-491.*
- SHARMA, S.D. (1978) *Basis of prediction of Pluto and a transplutonian planet as predicted by V.B. Ketakara. Bull. Astron. Soc. India* **6**, 51 (Abstract).
- SHARMA, S.D. (1981) *Pluto and a transplutonian planet as predicted by Venkatesha Ketakara. Indian Jour. Hist. Astron.* **16**, 118–129 (Abstract).
- SHATOKHINA, S.V., KAZANTSEVA, L.V., AND ANDRUK, V.M. (2019) *The re-processing results of photographic observations of asteroids with GAIA Catalog at the Mao Nas of Ukraine. Odessa Astronomical Publications* **32**, 199.
- SHATOKHINA, S.V., YIZHAKOVYCH, O.M., PROTSYUK, YU.I., KAZANTSEVA, L.V., PAKULIAK, L.K., EGLITIS, I., RELKE, H., YULDOSHEV, Q.X., MULLO-ABDOLOV, A.SH., AND ANDRUK, V.M. (2019) *On the “Solar System Bodies” Astroplate Project of the Ukrainian Virtual Observatory. Odessa Astronomical Publications* **32**, 203.
- SCHAUFELBERGER, A., WURZ, P., LAMMER, H., KULIKOV, AND YU.N. (2010) *Velocity distributions in planetary exospheres: implications for Titan and Pluto. EPSC Abstracts* **5**, 621 (Abstract).
- SHAWL, S.J., BYRD, G., DEUTSA, S.E., AND LOPRESTO, M.C. (2016) *Discovering Astronomy 101: an Astro 101 e-book. AAS Meeting* **227**, , 245.12 (Abstract).
- SCHENK, P.M., ET AL. (2018) *Canyons, craters, and volcanism: Global cartography and topography of Pluto’s moon Charon from New Horizons. Icarus, in press.*
- SHECHTMAN, D. (1945) *Pluto’s advance of perihelion. Pop. Astron.* **53**, 42.
- SHECHTMAN, I. (2004) *To Pluto—in 1.5 years by nuclear electric rocket [rapid communication]. Acta Astronautica* **55**, no. 11, 959–964 5342.
- SHEEHAN, W. (1992) *Worlds in the sky — planetary discovery from earliest times through Voyager and Magellan. (U. Arizona Press, Tucson), 258 pp.*
- SHEEHAN, W. AND O’MEARA, S.J. (1993) *Exotic worlds. Sky and Tel.* **85**, no. 1, 20–24.
- SHEEHAN, W. (1997) *Obituary: Clyde Tombaugh (1906–1997). Astronomy* **25**, no. 4, 28–29.
- SHEEHAN, W. (2001) *The historic hunt for moons. Mercury* **30**, no. 2, 23–27.
- SHEEHAN, W. (2020) *Treading carefully: V.M. Slipher, C.O. Lampland, E.C. Slipher and their ambivalent relationship with Percival Lowell’s Mars. Jour.. Astronomical History and Heritage* **22**, no. 3, 365–400.
- SHEPPARD, S.S. (2006) *A planet more, a planet less. Nature* **439**, 541–542.
- SHEPPARD, S.S. (2007) *Light curves of dwarf Plutonian planets and other large Kuiper Belt Objects: their rotations, phase functions, and absolute magnitudes. Astron. Jour.* **134**, 787–798.
- SHERRILL, T.J. (1999) *A career of controversy: the anomaly of T.J.J. See. Jour. Hist. Astron.* **30**, no. 1, 25–50.
- SHEVCHENCKO, V.I., RIDE, S.K., AND BAINE, M. (1997) *Wave activity near Pluto. Geophys. Res. Letters* **24**, no. 1, 101–104.
- SHI, H.S. AND IP, W.H. (2018) *A study of the seasonal variation of the sublimation rate of the Sputnik Planum ice sheet on Pluto. Serendipities in the Solar System and Beyond ASP Conference Series* **513**, 275.
- SHI, H.S., LAI, I.L., AND IP, W.H. (2019) *The long-term evolution of Pluto’s atmosphere and its effect on Charon’s surface tholin formation. Pluto System After New Horizons, LPI Contribution No. 2133, Laurl, MD, 2019 July 14–18, 7014 (Abstract).*
- SHIBLEY, J. (1994) *Take the Pluto challenge. Astronomy* **22**, 88–90.
- SHIBLEY, J. (1994) *Take the Charon challenge. Astronomy* **22**, 90.

- SHIGA, D. (2009) *Book Review: The Pluto Files by Neil deGrasse Tyson*. *New Scientist* **201**, 56.
- SHIMONI, Y., AHARONSON, O., AND RUFU, R. (2022) *The influence of equation of state on impact dynamics between Pluto-like bodies*. *Icarus* **371**, 114677.
- SCHINDLER, K.S. (2019) *Pluto, the Moon, and the case for multi-stage space exploration.. Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7059 (Abstract).
- SHINKIN, V.N. (1992) *Integrable cases of the planetary three-body problem with first-order resonance*. *Kosmicheskie Issledovaniya* **30**, 455–461.
- SHIPMAN, H.L. (2009) *Using the Pluto controversy to teach the scientific process*. *Bull. Amer. Astron. Soc.* **41**, 263 (Abstract).
- SHIRLAW, J.G. (1994) *Pluto fast flyby spacecraft design and development*. S.M. thesis, Massachusetts Institute of Technology, Cambridge, MA.
- SHKURATOV, I.U.G. (1988) *A diffraction mechanism for the formation of the opposition effect of the brightness of surfaces having a complex structure*. *Kinematika i Fizika Nebesnykh Tel* **4**, 33–39.
- SHOCK, A. (1994) *Radioisotope Stirling Generator options for Pluto Fast Flyby mission. Space nuclear power and propulsion: eleventh symposium*. *AIP Conference Proceedings* **301**, 345–358.
- SHOCK, A., OR, C., AND KUMAR, V. (1997) *Design and integration of small RTPV generators with New Millennium spacecraft for outer solar system*. *Acta Astron.* **41**, 801–816.
- SHOSTAK, S. (2022) *Oh, the spaces we'll go*. *Astronomy* **50**, no. 10, 12–19.
- SHOWALTER, M.R., CHENG, A.F., WEAVER, H.A., STERN, S.A., SPENCER, J.R., ROSE, D., BIRATH, E., THROOP, H., AND NEW HORIZONS TEAM. (2007) *A new look at Jupiter's ring system: preliminary results from New Horizons*. *Bull. Amer. Astron. Soc.* **38**, 12.07 (Abstract).
- SHOWALTER, MARK R., CHENG, A.F., WEAVER, H.A., STERN, S.A., SPENCER, J.R., THROOP, H., BIRATH, E.M., ROSE, D., AND MOORE, J.M. (2007) *Clumps and temporal changes in the Jovian ring system as viewed by New Horizons*. *Bull. Amer. Astron. Soc.* **39**, 438 (Abstract).
- SHOWALTER, M.R., HAMILTON, D.P., STERN, S.A., WEAVER, H.A., STEFFL, A.J., AND YOUNG, L.A. (2011) *New satellite of (134340) Pluto: S/2012 (134340) 1*. *IAU Circular No. 2769*.
- SHOWALTER, M.R., HAMILTON, D.P., STERN, S.A., WEAVER, H.A., STEFFL, A.J., AND YOUNG, L.A. (2011) *New satellite of (134340) Pluto: S/2012 (134340) 1*. *IAU Circular No. 9221*.
- SHOWALTER, M.R., WEAVER, H.A., STERN, S.A., STEFFL, A.J., BUIE, M.W., MERLINE, W.J., MUTCHLER, M., SOUMMER, R., AND THROOP, H.B. (2012) *New satellite of (134340) Pluto: S/2012 (134340) 1*. *IAU Circular No. 9253*.
- SHOWALTER, M.R., WEAVER, H.A., STERN, S.A., STEFFL, A.J., HAMILTON, D.P., BUIE, M.W., MERLINE, W.J., YOUNG, L.A., MUTCHLER, M., SOUMMER, R., AND THROOP, H.B. (2012) *Pluto's P4 and P5: latest results for Pluto's tiniest moons*. *Bull. Amer. Astron. Soc.* **44**, 304.07 (Abstract).
- SHOWALTER, M.R., HAMILTON, D.P., WEAVER, H.A., STERN, S.A., STEFFL, A.J., AND YOUNG, L.A. (2012) *Pluto's "P4" and the search for additional moons and rings*. *Geophysical Research Abstracts* **14**, 12018 (Abstract).
- SHOWALTER, M.R., HAMILTON, D.P., WEAVER, H.A., STERN, S.A., STEFFL, A.J., AND YOUNG, L.A. (2012) *Pluto's "P4" and the search for additional moons and rings*. *Bull. Amer. Astron. Soc.* **43**, 8.09 (Abstract).
- SHOWALTER, M., WEAVER, H., BUIE, M., MERLINE, D., MUTCHLER, M., SOUMMER, R., STEFFL, A., STERN, S.A., THROOP, H., AND YOUNG, L. (2013) *Update on Pluto's tiniest moons*. *Geophys. Res. Abstracts* **15**, 13786 (Abstract).
- SHOWALTER, M.R. (2014) *Chaotic rotation of Nix and Hydra*. *Bull. Amer. Astron. Soc.* **45**, 340.02 (Abstract).
- SHOWALTER, M.R. AND HAMILTON, D.P. (2015) *Resonant interactions and chaotic rotation of Pluto's small moons*. *Nature* **522**, 45–49.

- SHOWALTER, M.R., SPENCER, J.R., PORTER, S.B., HAMILTON, D.P., BINZEL, R.P., STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., AND ENNICO, K. (2015) *Orbital and rotational dynamics of Pluto's small moons*. *Bull. Amer. Astron. Soc.* **47**, 102.09 (Abstract).
- SHOWALTER, M.R., WEAVER, H.A., SPENCER, J.R., PORTER, S., HAMILTON, D.P., BINZEL, R.P., BUIE, M.W., GRUNDY, W.M., NIMMO, F., JACOBSON, R.A., BROZOVIC, M., THROOP, H.B., STERN, S.A., OLKIN, C.B., YOUNG, L., ENNICO, K., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Orbital and rotational dynamics of Pluto's small moons*. *Bull. Amer. Astron. Soc.* **47**, 303.02 (Abstract).
- SHOWALTER, M.R., WEAVER, H.A., SPENCER, J.R., PORTER, S., HAMILTON, D.P., BINZEL, R.P., BUIE, M.W., GRUNDY, W.M., NIMMO, F., JACOBSON, R.A., BROZOVIC, M., THROOP, H.B., STERN, S.A., OLKIN, C.B., YOUNG, L., AND ENNICO, K. (2016) *Orbital and rotational dynamics of Pluto's small moons*. *Geophys. Res. Abstracts* **18**, EGU2016-9490 (Abstract).
- SHOWALTER, M.R., VERVISCER, A., BUIE, M., AND HELFENSTEIN, P. (2018) *A new look at Pluto's small satellites: observations with HST in 2018*. *Bull. Amer. Astron. Soc.* **50**, 315.14 (Abstract).
- SHOWALTER, M.R., PORTER, S.B., VERBISCHER, A.J., BUIE, M.W., AND HELFENSTEIN, P. (2019) *Rotation states of Pluto's small moons and the search for spin-orbit resonances*. *Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14-18*, 7052 (Abstract).
- SHOWALTER, M.R., VERBISCHER, A., BUIE, M., AND HELFENSTEIN, P. (2019) *The search for spin-orbit resonances in the Pluto system*. *Bull. Amer. Astron. Soc.* **51**, no. 5, 401.02 (Abstract).
- SHOWALTER, M., BENECCHI, S., BUIE, M.W., GRUNDY, W.M., KEANE, J.T., LISSE, C.M., OLKIN, C., PORTER, S., ROBBINS, S.J., SINGER, K.N., VERBISCHER, A., WEAVER, JR., H.A., ZANGARI, A.M., HAMILTON, D.P., KAUFMANN, D.E., LAUER, T., MEHOKE, D.S., MEHOKE, T.S., SPENCER, J.R., THROOP, H.PARKER, J.W., AND STERN, S.A. (2019) *A statistical test for the population of contact binaries in the Kuiper Belt*. *AGU Fall Meeting Abstracts P33I*, 3532 (Abstract).
- SHOWALTER, M.R., PORTER, S.B., VERBISCHER, A.J., BUIE, M.W., AND HELFENSTEIN, P.; (2019) *Rotation states of Pluto's small moons and the search for spin-orbit resonances*. *ESPC-DPS Joint Meeting* **13**, 1025S (Abstract).
- SHOWSTACK, R. (2002) *No major increase for NASA under Bush budget plan*. *Eos* **83**, no. 11, 117-118.
- SHOWSTACK, R. (2014) *Pluto-bound spacecraft crosses orbit of Neptune*. *Eos* **95**, no. 36, 327 Published on 09 September
- SHOWSTACK, R. (2015) *Long-traveled spacecraft buzzes Pluto in close flyby*. *Eos* **96**, doi:10.1029/2015EO032853. Published on
- SHOWSTACK, R. (2015) *"Amazing" activity evident on Pluto's surface*. *Eos* **96**, doi:10.1029/2015EO032899. Published on
- SHUPLA, C. (2016) *Planetary Exploration in Science Education. The Universe in the Classroom* **no. 90**, 1-6.
- SHUSTER, J. (2008) *Pluto, science and death*. *Sky and Tel.* **115**, no. 1112.
- SICKAFOOSE, A.A., BOSH, A.S., PERSON, M.J., ZULUAGA, C.A., LEVINE, S.E., PASACHOFF, J.M., BABCOCK, B.A., DUNHAM, E.W., MCLEAN, I., WOLF, J., ABE, F., BIDA, T.A., BRIGHT, L.P., BROTHERS, T., CHRISTIE, G., COLLINS, P.L., DURST, R.F., GILMORE, A.C., HAMILTON, R., HARRIS, H.C., JOHNSON, C., KILMARTIN, P.M., KOSARIEK, M.R., LEPPIK, K., LOGSDON, S., LUCAS, R., MATHERS, S., MORLEY, C.J.K., NATUSCH, T., NELSON, P., NGAN, H., PFÜLLER, E., ROESER, H.-P., SALLUM, S., SAVAGE, M., SEEGER, S.H., SIU, H., STOCKDALE, C., SUZUKI, D., THANATHIBODEE, T., TILLEMANN, T., TRISTAM, P.J., VAN CLEVE, J., VARUGHESE, C., WEISENBACH, L.W., WIDEN, E., AND WIEDEMANN, M. (2015) *Investigation of particle sizes in Pluto's atmosphere from the 29 June 2015 occultation*. *Bull. Amer. Astron. Soc.* **47**, 105.04 (Abstract).
- SICKAFOOSE, A.A., LEVINE, S.E., BOSH, A., S., ZULUAGA, C.A., PERSON, M.J., AND SCHINDLER, K. (2018) *Pluto's atmosphere after New Horizons: results from stellar occultations in 2017 and 2018*. *Bull. Amer. Astron. Soc.* **50**, 502.02 (Abstract).
- SICKAFOOSE, A.A., BOSH, A.S., LEVINE, S.E., PERSON, M.J., SCHINDLER, K., AND ZULUAGA, C.A. (2019) *Stellar occultations by Pluto: 2017-2018*. *Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14-18*, 7026 (Abstract).

- SICKAFOOSE, A., PERSON, M., ZULUAGA, C., BOSH, A., LEVINE, S., LISTER, T., OSIP, D., SCHINDLER, K., AND BROTHER, T. (2021) *Continuing program of stellar occultations by Pluto*. *Bull. Amer. Astron. Soc.* **53**, 307.13 (Abstract).
- SICARDY, B., COLAS, F., WIDEMANN, T., BEISKER, W., BIRNBAUM, C., BROOKS, K., DELSANTI, A., FIENGA, A., GENDRON, E., HAINAUT, O., KRETLOW, M., LAGRANGE, A.M., LECACHEUX, J., LEYRAT, C., MAURY, A., RAYNAUD, E., RAPAPORT, M., RENNER, S., ROQUES, F., AND SCHULTHEIS, M. (2002) *The 20 July 2002 occultation of P126 by Pluto*. *Bull. Amer. Astron. Soc.* **34**, no. 3877 (Abstract).
- SICARDY, B., WIDEMANN, T., LELLOUCH, T., COLAS, F., ROQUES, F., VEILLET, C., AND CUILLANDRE, J.-C. (2003) “*Drastic changes in Pluto atmosphere revealed by stellar occultations.*” Paper given at *Semaine de l’Astrophysique Française, meeting held in Bordeaux, France, June 16-20, 2003*. *EdP-Sciences, Conference Series.*, F. Combes, D. Barret, T. Contini, and L. Pagani, eds.129.
- SICARDY, B. (2003) *All eyes on Pluto*. *Sky and Tel.* **104**, 93.
- SICARDY, B., WIDEMANN, T., LELLOUCH, E., VEILLET, C., CUILLANDRE, J.-C., COLAS, F., ROQUES, F., BEISKER, W., KRETLOW, M., LAGRANGE, A.-M., GENDRON, E., LACOMBE, F., LECACHEUX, J., BIRNBAUM, C., FIENGA, A., LEYRAT, C., MAURY, A., RAYNAUD, E., RENNER, S., SCHULTHEIS, M., BROOKS, K., DELSANTI, A., HAINAUT, O.R., GILMOZZI, R., LIDMAN, C., SPYROMILIO, J., RAPAPORT, M., ROSENZWEIG, P., NARANJO, O., PORRAS, L., DÍAZ, F., CALDERÓN, H., CARRILLO, S., CARVAJAL, A., RECALDE, E., CAVERO, L., G., MONTALVO, C., BARRÍA, D., CAMPOS, R., DUFFARD, R., AND LEVATO, H. (2003) *Large changes in Pluto’s atmosphere as revealed by recent stellar occultations*. *Nature* **424**, no. 6945, 168–170.
- SICARDY, B., WIDEMANN, T., LELLOUCH, E., VEILLET, C., COLAS, F., ROQUES, F., BEISKER, W., KRETLOW, M., CUILLANDRE, J.C., AND HAINAUT, O. (2003) “*Changes in Pluto’s atmosphere revealed by occultations.*” Paper given at *Recent Progress in Planetary Exploration, 25th meeting of the IAU, Special Session 1, 17-18 July, 2003, Sydney, Australia*.
- SICARDY, B., WIDEMANN, T., LELLOUCH, E., ROQUES, F., GENDRON, E., VEILLET, C., CUILLANDRE, J., COLAS, F., BEISKER, W., KRETLOW, M., HAINAUT, O.R., AND LIDMAN, C. (2005) *Large changes in Pluto’s atmosphere revealed by stellar occultations*. *Highlights of Astronomy* **13**, 908–909.
- SICARDY, B., COLAS, F., WIDEMANN, A., BELLUCCI, E., FRAPPA, E., GENDRON, E., LACOUR, S., LECACHEUX, J., PAU, S., QUINTANILLA, J., RENNER, S., ROQUES, F., VACHIER, F., AGEORGES, N., HAINAUT, O., BEISKER, W., MAURY, A., LAZZARO, D., MARTINES, R., VEIGA, C., MOUSIS, O., ROUSSELOT, P., LECAMPION, J.-F., LEVATO, H., ZALLES, R. (2005) *The 11 July 2005 Charon stellar occultation*. *Bull. Amer. Astron. Soc.* **37**, 733 (Abstract).
- SICARDY, B., AGEORGES, N., MARCO, O., ROQUES, F., MOUSIS, O., ROUSSELOT, P., HAINAUT, O., BELLUCCI, A., COLAS, F., GENDRON, E., LELLOUCH, E., RENNER, S., AND WIDEMANN, T. (2006) *Pluto III (Hydra)* IAU Circular No. 8610.
- SICARDY, B., BELLUCCI, A., GENDRON, E., LACOMBE, F., LACOUR, S., LECACHEUX, J., LELLOUCH, E., RENNER, S., PAU, S., ROQUES, F., WIDEMANN, T., COLAS, F., VACHIER, F., MARTINS, R. VIEIRA, AGEORGES, N., HAINAUT, O., MARCO, O., BEISKER, W., HUMMEL, E., FEINSTEIN, C., LEVATO, H., MAURY, A., FRAPPA, E., GAILLARD, B., LAVAYSSIÈRE, M., DI SORA, M., MALLIA, F., MASI, G., BEHREND, R., CARRIER, F., MOUSIS, O., ROUSSELOT, P., ALVAREZ-CANDAL, A., LAZZARO, D., VEIGA, C., ANDREI, A. H., ASSAFIN, M., DA SILVA NETO, D. N., JACQUES, C., PIMENTEL, E., WEAVER, D., LECAMPION, J.-F., DONCEL, F., MOMIYAMA, T., AND TANCREDI, G. (2006) *Charon’s size and an upper limit on its atmosphere from a stellar occultation*. *Nature* **439**, 52–54.

- SICARDY, B., ORTIZ, J.L., ASSAFIN, M., JEHIN, E., MAURY, A., LELLOUCH, E., HUTTON, R.GIL, BRAGA-RIBAS, F., COLAS, F., HESTROFFER, D., LECACHEUX, J., ROQUES, F., SANTOS-SANZ, P., WIDEMANN, T., MORALES, N., DUFFARD, R., THIROUIN, A., CASTRO-TIRADO, A.J., JELÍNEK, M., KUBÁNEK, P., SOTA, A., SÁNCHEZ-RAMÍREZ, R., ANDREI, A.H., CAMARGO, J.I.B., DA SILVA NETO, D.N., GOMES, A. RAMOS, MARTINS, R. VIEIRA, GILLON, M., MANFROID, J., TOZZI, G.P., HARLINGTON, C., SARAVIA, S., BEHREND, R., MOTTOLA, S., MELENDO, E.GARCÍA, PERIS, V., FABREGAT, J., MADIEDO, J.M., CUESTA, L., EIBE, M.T., ULLÁN, A., ORGANERO, F., PASTOR, S., DE LOS REYES, J.A., PEDRAZ, S., CASTRO, A., DE LA CUEVA, I., MULER, G., STEELE, I.A., CEBRIÁN, M., MONTAÑÉS-RODRÍGUEZ, P., OSCOZ, A., WEAVER, D., JACQUES, C., CORRADI, W.J.B., SANTOS, F.P., REIS, W., MILONE, A., EMILIO, M., GUTIÉRREZ, L., VÁZQUEZ, R., AND HERNÁNDEZ-TOLEDO, H. (2011) *A Pluto-like radius and a high albedo for the dwarf planet Eris from an occultation.* *Nature* **478**, 493–496.
- SICARDY, B., BEISKER, W., BATISTA, V., COLAS, F., GENDRON, E., LECACHEUX, J., ROQUES, F., WIDEMANN, T., DORESSOUDIRAM, A., AGEORGES, N., FOELLM, C., IVANOV, V., MARCO, O., MOUSIS, O., ROUSSELOT, P., BEHREND, R., ASSAFIM, M., CAMARGO, J., DA SILVA NETO, D., ADREI, A., VIEIRA MARTINS, R., GAULT, D., RICHMOND, M., GREENHILL, J., DIETERS, S., GILMORE, A., KILMARTIN, P., HEARNshaw, J., MATHERS, S., AND PRIEST, L. (2006) *Observing two Pluto stellar approaches in 2006: results on Pluto's atmosphere and detection of Hydra.* *Bull. Amer. Astron. Soc.* **38**, 542 (Abstract).
- SICARDY, B., WIDEMANN, T., COLAS, F., DORESSOUDIRAM, A., LECACHEUX, J., VACHIER, F., BEISKER, W., ASSAFIN, M., CAMARGO, J., DA SILVA NETO, D., RIBAS, F.B., ANDREI, A., VIEIRA MARTINS, R., BEHREND, R., HUBBARD, W., LARSON, S., MARCHIS, F., WONG, M.H., SEVERSON, S., DUNHAM, D., WARNER, B.D., PETERSON, C., MOLNAR, L., GEORGE, T., MALEY, P., COZIOL, R., CHOI, Y., ESO TEAM, BATH, K., AND KRETLOW, M. (2007) *Pluto's atmospheric activity, ephemeris offset and satellite detections from observations in 2007.* *Bull. Amer. Astron. Soc.* **39**, 540 (Abstract).
- SICARDY, B., BOISSEL, Y., COLAS, F., ROQUES, F., WIDEMANN, T., ASSAFIN, M., CAMARGO, J.I.B., DA SILVA NETO, D.N., RIBAS, F.B., VIEIRA MARTINS, R., ANDREI, A.H., BEHREND, R., BEISKER, W., HERALD, D., BOLT, G., BROUGHTON, J., DOBOSZ, T., GAULT, D., GROOM, R., KERR, S., ANDERSON, P., BATISTA, V., BLAIR, L., GREENHILL, J., FRAPPA, E., BENARD, F., TENG, J.P., GRUHN, C., BLANCHARD, G., CASTETS, M. (2008) *Pluto atmospheric activity, ephemeris offset and Charon orbital radius constrained by stellar occultations.* *Bull. Amer. Astron. Soc.* **40**, 461 (Abstract).
- SICARDY, B., BOISSEL, Y. COLAS, F., DORESSOUDIRAM, A., LECACHEUX, J., ROQUES, F., WIDEMANN, T., BEISKER, W., ADREI, A.H., CAMARGO, J.I.B., VIEIRA MARINS, R., ASSAFIN, M., SILVA NETO, D., BRAGA-RIBAS, F., TENG, J.P., BENARD, F., FRAPPA, E., BOLT, G., BROUGHTON, J., DOBOSZ, T., GAULTM D., KERR, S., GROOM, R., GRUHN, C., LADE, B., HERALD, D., BATISTA, V., GREENHILL, J., AND BIGGS, J. (2009) *Constraints on Charon's orbit from the stellar occultation of 22 June 2008.* *EPSC Abstracts* **4**, 164 (Abstract).
- SICARDY, B., BOLT, G., BROUGHTON, J., DOBOSZ, T., GAULT, D., KERR, S., BÉNARD, F., FRAPPA, E., LECACHEUX, J., PEYROT, A., TENG-CHUEN-YU, J.-P., BEISKER, W., BOISSEL, Y., BUCKLEY, D., COLAS, F., DE WITT, C., DORESSOUDIRAM, A., ROQUES, F., WIDEMANN, T., GRUHN, C., BATISTA, V., BIGGS, J., DIETERS, S., GREENHILL, J., GROOM, R., HERALD, D., LADE, B., MATHERS, S., ASSAFIN, M., CAMARGO, J.I.B., VIEIRA-MARTINS, R., ANDREI, A.H., DA SILVA NETO, D.N., BRAGA-RIBAS, F., AND BEHREND, R. (2011) *Constraints on Charon's orbital elements from the double stellar occultation of 2008 June 22.* *Astron. Jour.* **141**, 67–82.

- SICARDY, B., BRAGA-RIBAS, F., WIDEMANN, T., JEHIN, E., GILLON, M., MANFROID, J., ORTIZ, J. L., MORALES, N., MAURY, A., ASSAFIN, M., CAMARGO, J.I.B., VIEIRA MARTINS, R., DIAS OLIVEIRA, A., RAMOS GOMES, JR., A., VANZI, L., LEIVA, R., YOUNG, L.A., BUIE, M. W., OLKIN, C.B., YOUNG, E.F., HOWELL, R.R., FRENCH, R.G., BIANCO, F.B., FULTON, B.J., LISTER, T.A., BODE, H.J., BARNARD, B., MERRITT, J.C., SHOEMAKER, K., VENGEL, T., THOLEN, D.J., HALL, T., REITSEMA, H.J., WASSERMAN, L.H., AND GO, C. (2012) *Charon's size and orbit from double stellar occultations*. *Bull. Amer. Astron. Soc.* **44**, 304.01 (Abstract).
- SICARDY, B., TALBOT, J., MEZA, E., CAMARGO, J.I.B., DESMARS, J., GAULT, D., HERALD, D., KERR, S., PAVLOV, H., BRAGA-RIBAS, F., ASSAFIN, M., BENEDETTI-ROSSI, G., DIAS-OLIVEIRA, A., RAMOS-GOMES-JR., A., VIEIRA-MARTINS, R., BERARD, D., KERVELLA, P., LECACHEUX, J., LELLOUCH, E., BEISKER, W., DUNHAM, D., JELINEK, M., DUFFARD, R., ORTIZ, J.L., CASTRO-TIRADO, A.J., CUNNIFFE, R., QUEREL, R., YOCK, P.A., COLE, A.A., GILES, A.B., HILL, K.M., BEAULIEU, J.P., HARNISCH, M., JANSEN, R., PENNELL, A., TODD, S., ALLEN, W.H., GRAHAM, P.B., LOADER, B., MCKAY, G., MILNER, J., PARKER, S., BARRY, M.A., BRADSHAW, J., BROUGHTON, J., DAVIS, L., DEVILLEPOIX, H., DRUMMOND, J., FIELD, L., FORBES, M., GILES, D., GLASSEY, R., GROOM, R., HOOPER, D., HORVAT, R., HUDSON, G., IDACZYK, R., JENKE, D., LADE, B., NEWMAN, J., NOSWORTHY, P., PURCELL, P., SKILTON, P.F., STREAMER, M., UNWIN, M., WATANABE, H., WHITE, G.L., AND WATSON, D. (2016) *Pluto's atmosphere from the 29 June 2015 ground-based stellar occultation at the time of the New Horizons flyby*. *Astrophys. Jour.Lett.* **no. 2, L38–L45**, .
- SICARDY, B. (2016) *Probing Pluto's atmosphere using ground-based stellar occultations*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 172 (Abstract).
- SICARDY, B., ASHOK, NAGARHALLI M., TEJ, A., PAWAR, G., DESHMUKH, S., DESHPANDE, A., SHARMA, S., DESMARS, J., ASSAFIN, M., ORTIZ, J.L., BENEDETTI-ROSSI, G., BRAGA-RIBAS, F., VIEIRA-MARTINS, R., SANTOS-SANZ, P., CHAND, K., AND BHATT, B.C. (2021) *Pluto's atmosphere in plateau phase since 2015 from a stellar occultation at Devasthal*. *Astrophys. Jour. Lett.* **923**, no. 2, L31.
- SIDROW, E. AND BAGENAL, F. (2015) *Extended neutral cloud around Pluto's orbit*. *Bull. Amer. Astron. Soc.* **47**, 210.25 (Abstract).
- SILLANPÄÄ, I., EBERT, R., ELLIOTT, H., AND KALLIO, E. (2012) *Preliminary model for the solar wind interaction with Pluto's extended plasma tail*. *Geophysical Research Abstracts* **14**, 6526 (Abstract).
- SILSBEE, K. AND TREMAINE, S. (2018) *Producing distant planets by mutual scattering of planetary embryos*. *Astron. Jour.* **155**, no. 2, 75.
- SILVA, G. (1930) *Vorläufige untersuchungen uber das Lowell'sche objekt*. *Acta Astron.* **1c**, 101.
- SILVA, G. (1930) *Pluton est-il la planète prévue par Percival Lowell?* *L'Astronomie* **44**, 492–494.
- SILVA, J.S., REYES-RUIZ, M., AND CASTRO-CHACON, J.H. (2019) *Lightcurves of the August 15, 2018 Pluto occultation from the San Pedro Martir Observatory*. *ESPC–DPS Joint Meeting* **13**, 1236S (Abstract).
- SILVA-CABRERA, J.S., CASTRO-CHACÓN, J.H., REYES-RUIZ, M., LEHNER, M.J., GUERRERO, C.A., HUANG, C.K., ALVAREZ-SANTANA, F.I., CHANG, Y.C., LING, H.H., PORRAS-NAVARRO, I., HERNÁNDEZ-ÁGUILA, J.B., PÉREZ-ARCE, R.L., ROJAS-QUINTERO, J.A., AVILA, R., WANG, S.Y., ALCOCK, C., CHEN, W.P., GRANADOS CONTRERAS, A.P., COOK, K.H., AND GEARY, J.C. (2022) *2018 August 15 stellar occultation by minor planet (134340) Pluto*. *Mon. Not. Roy. Astron. Soc.* **511**, no. 4, 5550–5559.
- SILVERBERG, R. (2000) *Pluto story—The discovery of extraterrestrial life was the key event of the third millennium*. *Nature* **403**, 367.
- SIMMONS, G.G., HOWETT, C.J.A., YOUNG, L.A., AND SPENCER, J.R. (2015) *Searching for thermal anomalies on icy satellites: Step 1— Validation of the Three Dimensional Volatile-Transport (VT3D)*. *Bull. Amer. Astron. Soc.* **47**, 411.01 (Abstract).
- SIMON, J.-L., FRANCOU, G., FIENGA, A., AND MANCHE, H. (2013) *New analytical planetary theories VSOP2013 and TOP2013*. *Astron. Astrophys.* **557**, A49.

- SIMONELLI, D.P., POLLACK, J.B., MCKAY, C.P., REYNOLDS, R.T., AND SUMMERS, A.L. (1989) *The carbon budget in the outer solar nebula. Icarus* **82**, 1–36.
- SIMONELLI, D.P. (1989) *The interiors of Pluto and Charon: composition, structure, and implications. Eos* **70**, 381 (Abstract).
- SIMONELLI, D.P. AND REYNOLDS, R.T. (1989) *The interiors of Pluto and Charon: structure, composition, and implications. Geophys. Res. Letters* **16**, 1205–1212.
- SIMONELLI, D.P., POLLACK, J.B. AND MCKAY, C.P. (1990) “The carbon budget in the outer solar system.” Paper given at *Carbon in the Galaxy: studies from Earth and space*, Moffett Field, CA November 5–6 NASA CP–3061, pp. 342–343.
- SIMON-MILLER, A.A., REUTER, D., LUNSFORD, A., JENNINGS, D.E., BAINES, K.H., TSAVARIS, I., CHENG, A.F., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., STERN, S.A., AND NEW HORIZONS TEAM. (2007) *Jovian Winds and Waves from New Horizons. Bull. Amer. Astron. Soc.* **39**, 407 (Abstract).
- SIMON-MILLER, A.A., BAINES, K.H., REUTER, D.C., JENNINGS, D.E., LUNSFORD, A.W., WEAVER, H.A., MOMARY, T.W., CHENG, A.F., SPENCER, J.R., GLADSTONE, G.R., MOORE, J.M., STERN, S.A., AND NEW HORIZONS TEAM. (2007) *New Horizons at Jupiter: from polar lightning to equatorial waves. AGU Fall Meeting Abstracts P53C*, 02 (Abstract).
- SIMS, J.A., STAUGLER, A.J., AND LONGUSKI, J.M. (1996) “Trajectory options to Pluto via gravity assists from Venus, Mars, and Jupiter.” Paper given at *AIAA/AAS, Astrodynamics Conference, San Diego, CA, July 29-31, 1996*, AIAA Paper # 96–3614.
- SIMS, J.A., STAUGLER, A.J., AND LONGUSKI, J.M. (1997) *Trajectory options to Pluto via gravity assists from Venus, Mars, and Jupiter. Jour. Spacecraft and Rockets* **34**, 347–353.
- SIMS, J.A., LONGUSKI, J.M., AND PATEL, M.R. (2000) *Aerogravity-assist trajectories to the outer planets and the effect of drag. Jour. Spacecraft and Rockets* **37**, no. 1, 49–55.
- SINAN, LE P.C.M. (1907) *Recherches sur la planète transneptunienne. L’Astronomie* **21**, 122.
- SINCELL, M. (1999) *Telling Pluto and its partner apart. Science* **285**, 649–650.
- SINGER, K.N. AND STERN, S.A. (2015) *On the provenance of Pluto’s nitrogen (N₂). Astrophys. Jour.Lett.* **808**, L50.
- SINGER, K.N., MCKINNON, W.B., GREENSTREET, S., GLADMAN, B. PARKER, A., ROBBINS, S.J., SCHENK, P.M., SPENCER, J.R., STERN, S.A., BRAY, V.J., WEAVER, H.J., HOWARD, A.D., YOUNG, L.A., OLKIN, C., ENNICO, K., MOORE, J., BINZEL, R., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Pluto system cratering history and surface ages (Invited Presentation). Geological Soc. Amer. Annual Meeting T160*, 48–5 (Abstract).
- SINGER, K.N. AND STERN, S.A. (2015) *An endogenous source for Pluto’s nitrogen (N₂). Lunar & Planetary Sci.* **46**, 1192 (Abstract).
- SINGER, K.N., MCKINNON, W.B., GREENSTREET, S., GLADMAN, B. PARKER, A., ROBBINS, S.J., SCHENK, P.M., SPENCER, J.R., STERN, S.A., BRAY, V.J., WEAVER, H.J., HOWARD, A.D., YOUNG, L.A., OLKIN, C., ENNICO, K., MOORE, J., BINZEL, R., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Pluto system cratering history and surface ages (Invited Presentation). Geological Soc. Amer. Annual Meeting T160*, 48–5 (Abstract).
- SINGER, K.N., SCHENK, P.M., ROBBINS, S.J., BRAY, V.J., MCKINNON, W.B., MOORE, J.M., SPENCER, J.R., STERN, S.A., GRUNDY, W.M., HOWETT, C.J.A., DALLE ORE, C.M., BEYER, R.M., PARKER, A.H., PORTER, S.B., ZANGARI, A.M., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K. (2015) *Craters on Pluto and Charon: characteristics and impactor population. Bull. Amer. Astron. Soc.* **47**, 102.02 (Abstract).

- SINGER, K.N., WHITE, O.L., SCHENK, P.M., MOORE, J.M., MCKINNON, W.B., HOWARD, A.D., SPENCER, J.R., STERN, S.A., COOK, J.C., GRUNDY, W.M., CRUIKSHANK, D.P., BEYER, R.A., NIMMO, F., UMURHAN, O., HOWETT, C.J.A., PARKER, A.H., PROTOPAPA, S., LAUER, T.R., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., ENNICO, K., NEW HORIZONS GEOLOGY, GEOPHYSICS TEAM, NEW HORIZONS COMPOSITION TEAM, NEW HORIZONS VIC TEAM, AND NEW HORIZONS LOORRI TEAM. (2016) *Pluto's putative cryovolcanic constructs*. *Lunar & Planetary Sci.* **47**, 2276 (Abstract).
- SINGER, K.N., MCKINNON, W.B., ROBBINS, S.J., SCHENK, P.M., GREENSTREET, S., GLADMAN, B., PARKER, A.H., STERN, S.A., BRAY, V.J., WEAVER, H.A., BEYER, R.A., YOUNG, L.A., SPENCER, J.R., MOORE, J.M., OLKIN, C.B., ENNICO, K., BINZEL, R.P., GRUNDY, W.M., NEW HORIZONS GEOLOGY, GEOPHYSICS TEAM, NEW HORIZONS COMPOSITION TEAM, NEW HORIZONS MVIC TEAM, AND NEW HORIZONS LORRI TEAM. (2016) *Craters on Pluto and Charon—surface ages and impactor populations*. *Lunar & Planetary Sci.* **47**, 2310 (Abstract).
- SINGER, K.N., WHITE, O.L., SCHENK, P.M., MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., HOWARD, A.D., STERN, S.A., COOK, J.C., GRUNDY, W.M., CRUIKSHANK, D.P., BEYER, R.A., UMURHAN, O., HOWETT, C.J.A., PARKER, A.H., PROTOPAPA, S., LAUER, T.R., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., ENNICO, K., NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING SCIENCE THEME TEAM, NEW HORIZONS MVIC TEAM, AND NEW HORIZONS LORRI TEAM. (2016) “*Pluto's putative cryovolcanic constructs*.” Paper given at *Annual Planetary Geologic Mappers Meeting*, 13–15 June 2016 Flagstaff, AZ.
- SINGER, K.N., MCKINNON, W.B., GREENSTREET, S., GLADMAN, B., PARKER, A., ROBBINS, S.J., SCHENK, P.M., SPENCER, J.R., STERN, S.A., BRAY, V.J., WEAVER, H.J., HOWARD, A.D., YOUNG, L.A., OLKIN, C., ENNICO, K., MOORE, J., BINZEL, R., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *Pluto system cratering history and surface ages (Invited Presentation)*. *Geological Soc. Amer. Annual Meeting T160*, 48-5 (Abstract).
- SINGER, K.N., MCKINNON, W.B., GREENSTREET, S., GLADMAN, B., PARKER, A.H., ROBBINS, S.J., SCHENK, P.M., STERN, S.A., BRAY, V., SPENCER, J.R., WEAVER, H.A., BEYER, R.A., YOUNG, L.A., MOORE, J.M., OLKIN, C.B., ENNICO, K., BINZEL, R.P., GRUNDY, W.M., AND THE NEW HORIZONS GEOLOGY GEOPHYSICS AND IMAGING SCIENCE THEME TEAM, THE NEW HORIZONS MVIC AND LORRI TEAMS. (2016) *Impact craters on Pluto and Charon indicate a deficit of small Kuiper Belt Objects*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 109–110 (Abstract).
- SINGER, K.N., MCKINNON, W.B., GREENSTREET, S., GLADMAN, B., BIERHAUS, E.B., STERN, S.A., PARKER, A.H., ROBBINS, S.J., SCHENK, P.M., BRAY, V.J., GRUNDY, W.M., BEYER, R.A., BINZEL, R.P., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., MOORE, J.M., OLKIN, C.B., LAUER, T.R., ENNICO, K., AND THE NEW HORIZONS TEAM. (2017) *Impact craters on Pluto and Charon reveal a deficit of small Kuiper Belt Objects*. *Asteroids, Comets, and Meteorites 2017*, 132–133 (Abstract).
- SINGER, K.N., MCKINNON, W.B., GLADMAN, B., GREENSTREET, S., BIERHAUS, E.B., STERN, S.A., PARKER, A.H., ROBBINS, S.J., SCHENK, P.M., GRUNDY, W.M., BRAY, V.J., BEYER, R.A., BINZEL, R.P., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., KAVELAARS, J.J., MOORE, J.M., ZANGARI, A.M., OLKIN, C.B., LAUER, T.R., LISSE, C.M., ENNICO, K., NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING SCIENCE THEME TEAM, NEW HORIZONS SURFACE COMPOSITION SCIENCE THEME TEAM, AND NEW HORIZONS RALPH AND LORRI TEAMS. (2019) *Impact craters on Pluto and Charon reveal a deficit of small Kuiper Belt Objects*. *Science* **363**, no. 6430, 955–959 (Abstract).
- SINGER, K.N., KNIGHT, K.I., STERN, S.A., OLKIN, C., GRUNDY, W.M., MCKINNON, W.B., MOORE, J.M., SCHENK, P.M., SPENCER, J.R., WEAVER, H.A., YOUNG, L., AND ENNICO, K. (2017) *Chaotic mountain blocks in Pluto's Sputnik Planitia*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 221.01 (Abstract).

- SINGER, K.N., SCHENK, P.M., WHITE, O.L., MOORE, J.M., MCKINNON, W.B., BEYER, R.A., SPENCER, J.R., HOWARD, A.D., SCHMITT, B., STERN, S.A., COOK, J.C., GRUNDY, W.M., CRUIKSHANK, D.P., UMURHAN, O., PROTOPAPPA, S., LAUER, T.R., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., AND ENNICO, K. (2018) "Cryovolcanism on Pluto from the New Horizons flyby." Paper given at *Cryovolcanism in the Solar System Workshop*, 5–7 June 2018, Houston, TX..
- SINGER, K.N., SCHENK, P.M., MCKINNON, W.B., BEYER, R.A., SCHMITT, B., WHITE, O.L., MOORE, J.M., GRUNDY, W., SPENCER, J., STERN, S.A., LAUER, T.R., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2018) *Cryovolcanic constructs on Pluto*. *Bull. Amer. Astron. Soc.* **50**, 506.04 (Abstract).
- SINGER, K.N., WHITE, O.L., MOORE, J.M., HOWARD, A.D., SCHENK, P.M., WILLIAMS, D.A., LOPES, R.M.C., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS TEAM. (2019) *The geology of Pluto. Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7005 (Abstract).
- SINGER, K.N., MCKINNON, W.B., GLADMAN, B., GREENSTREET, S., BIERHAUS, E.B., STERN, S.A., PARKER, A.H., ROBBINS, S.J., SCHENK, P.M., GRUNDY, W.M., BRAY, V.J., BEYER, R.A., BINZEL, R.P., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., KAVELAARS, J.J., MOORE, J.M., ZANGARI, A.M., OLKIN, C.B., LAUER, T.R., LISSE, C.M., ENNICO, K., NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING SCIENCE THEME TEAM, NEW HORIZONS SURFACE COMPOSITION SCIENCE THEME TEAM, AND NEW HORIZONS RALPH AND LORRI TEAMS. (2019) *Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects*. *Science* **363**, no. 6430, 955–959.
- SINGER, K.N., STERN, A., MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., WHITE, O.L., SCHENK, P., PORTER, S., VERBISER, A., PARKER, A.H., BUIE, M.W., SHOWALTER, M., UMURHAN, O.M., YOUNG, L.A., BINZEL, R.P., GRUNDY, W.M., PROTOPAPPA, S., WEAVER, JR., H.A., OLKIN, C., ENNICO SMITH, K., AND PARKER, J.W. (2019) *The New Horizons mission: Pluto and the Kuiper Belt up-close*. *AGU Fall Meeting Abstracts* **P54B**, 09 (Abstract).
- SINGER, K.N., SPENCER, J.R., MCKINNON, W.B., STERN, A., GREENSTREET, S., GLADMAN, B., ROBBINS, S.J., RUNYON, K., SCHENK, P., KAVELAARS, J.J., LAUER, T., PARKER, A.H., WEAVER, JR., H.A., OLKIN, C., MOORE, J., PARKER, J.W., VERBISER, A., AND GRUNDY, W.M. (2019) *Impact craters on 2014 MU₆₉: implications for Kuiper Belt Object size-frequency distributions and planetesimal formation*. *AGU Fall Meeting Abstracts* **P33I**, 3535 (Abstract).
- SINGER, K.N., SPENCER, J.R., MCKINNON, W.B., STERN, S.A., GREENSTREET, S., GLADMAN, B., SCHENK, P.M., KAVELAARS, J.J., LAUER, T.R., PARKER, A.H., WEAVER, H.A., OLKIN, C.B., MOORE, J.M., PARKER, J.W., GRUNDY, W.M., AND VERBISER, A.J. (2020) *Impact craters on 2014 MU₆₉: Implications for Kuiper belt object size-frequency distributions and planetesimal formation*. *Bull. Amer. Astron. Soc.* **52**, no. 1, 419.06 (Abstract).
- SINGER, K., MCKINNON, W., SPENCER, J., GREENSTREET, S., GLADMAN, B., ROBBINS, S., RUNYON, K., SCHENK, P., KAVELAARS, J., LAUER, T., PARKER, A., STERN, A., WEAVER, H., AND OLKIN, C. (2019) *Impact craters on 2014 MU₆₉: The geologic history of MU₆₉ and Kuiper belt object size-frequency distributions*. *ESPC–DPS Joint Meeting* **13**, 1235S (Abstract).
- SINGER, K., PARKER, A., GLADMAN, B., MCKINNON, W., BOTTKER, W., KAVELAARS, J., SIMON, J., STERN, A., WEAVER, H., SPENCER, J., AND OLKIN, C. (2019) *The Kuiper belt vs the asteroid belt: Insights from the New Horizons mission results*. *The Pluto System After New Horizons* **13**, 1247S (Abstract).

- SINGER, K.N., MCKINNON, W.B., GLADMAN, B., GREENSTREET, S., BIERHAUS, E.B., STERN, S.A., PARKER, A.H., ROBBINS, S.J., SCHENK, P.M., GRUNDY, W.M., BRAY, V.J., BEYER, R.A., BINZEL, R.P., WEAVER, H.A., YOUNG, L.A., SPENCER, J.R., KAVELAARS, J.J., MOORE, J.M., ZANGARI, A.M., OLKIN, C.B., LAUER, T.R., LISSE, C.M., ENNICO, K., THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING SCIENCE THEME TEAM, THE NEW HORIZONS SURFACE COMPOSITION SCIENCE THEME TEAM, AND THE NEW HORIZONS RALPH AND LORRI TEAMS. (2019) *Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects.* *Science* **363**, no. 6430, 955–959.
- SINGER, K.N., GREENSTREET, S., SCHENK, P., ROBBINS, S., BRAY, V., MOORE, J., MCKINNON, W., AND STERN, S. (2020) *Impactor populations and terrain age estimates from craters on Pluto and Charon.* *Bull. Amer. Astron. Soc.* **52**, no. 6, 105.02 (Abstract).
- SINGER, K.N., GREENSTREET, S., SCHENK, P.M., ROBBINS, S.J., AND BRAY, V.J. (2020) “*Impact craters on Pluto and Charon and terrain age estimates.*” In *The Pluto System After New Horizons* (Stern, S.A., Moore, J.M., Grundy, W.M., Young, L.A., and Binzel, R.P.), U. Arizona Press, Tucson, AZ121–146.
- SINGER, K.N., GRUNDY, W.M., WHITE, O.L., AND BINZEL, R.P. (2021) *Introduction to Icarus special issue “Pluto System, Kuiper Belt, and Kuiper Belt Objects”.* *Icarus* **356**, 114269.
- SINGER, K.N., WHITE, O.L., SCHMITT, B., RADER, K.L., PROTOPAPA1, S., GRUNDY, W.M., CRUIKSHANK, D.P., BERTRAND, T., SCHENK, P.M., MCKINNON, W.B., STERN, S.A., DHINGRA, R.D., RUNYON, K.D., BEYER, R.A., BRAY, V.J., DALLE ORE, C., SPENCER, J.R., MOORE, J.M., NIMMO, F., KEANE, J.T., YOUNG, L.A., OLKIN, C.B., LAUER, T.R., WEAVER, H.A., AND ENNICO-SMITH, K. (2021) *Exploring morphometry, composition, and cryovolcanic emplacement mechanisms for the Wright Mons Region on Pluto.* *Bull. Amer. Astron. Soc.* **53**, 114.02 (Abstract).
- SINGER, K.N., WHITE, O.L., SCHMITT, B., RADER, E.L., PROTOPAPA, S., GRUNDY, W.M., CRUIKSHANK, D.P., BERTRAND, T., SCHENK, P.M., MCKINNON, W.B., STERN, S.A., DHINGRA, R.D., RUNYON, K.D., BEYER, R.A., BRAY, V.J., DALLE ORE, C., SPENCER, J.R., MOORE, J.M., NIMMO, F., KEANE, J.T., YOUNG, L.A., OLKIN, C.B., LAUER, T.R., WEAVER, H.A., AND ENNICO-SMITH, K. (2022) *Large-scale cryovolcanic resurfacing on Pluto.* *Nature Communications* **13**, 1542.
- SINGER, K.N., WHITE, O.L., SCHMITT, B., RADER, E.L., PROTOPAPA, S., GRUNDY, W.M., CRUIKSHANK, D.P., BERTRAND, T., SCHENK, P.M., MCKINNON, W.B., RUNYON, K.D., DHINGRA, R.D., STERN, S.A., MOORE, J.M., DALLE ORE, C., BRAY, V.J., KEANE, J.T., BEYER, R.A., NIMMO, F., YOUNG, L.A., OLKIN, C.B., LAUER, T.R., WEAVER, H.A., AND ENNICO-SMITH, K. (2022) *Large-scale cryovolcanic resurfacing in the Wright Mons region of Pluto.* *Lunar & Planetary Sci.* **53**, 1043 (Abstract).
- SINNOTT, R.W. (1983) *Pluto occultation alert.* In “*Celestial Calendar,*” *Sky and Tel.* **65**, 349.
- SINNOTT, R.W. (2002) *Outer planets in 2002.* *Sky and Tel.* **103**, no. 4, 94–95.
- SIVARAMAN, B., PAVITHRAA, S., LO, J.-I., RAJA SEKSHAR, B.N., HILL, H., CHENG, B.-M., AND MASON, N.J. (2016) *Vacuum ultraviolet photoabsorption spectra of nitrile ices for their identification on Pluto.* *Astrophys. Jour.* **825**, no. 2, 141.
- SJOGREN, W.L. (1983) *Planetary geodesy.* *Rev. Geophys. Space Phys.* **21**, 528–537.
- SKILLMAN, D., STEPP, A., STEWART, P.D., TAYLOR, S., THEBARGE, J., VELTHUIS, R., VYSKUBOV, L., WALRAVENS, E., AND ZEHNER, M. (2012) *Minor Planet Observations [268 New Horizons KBO Search-Magellan/Clay].* *Minor Planet Circular* 81620.
- SKJETNE, H.L., SINGER, K.N., HYNEK, B.M., KNIGHT, K.I., OLKIN, C.B., BERTRAND, T., SCHENK, P.M., MCKINNON, W.B., WHITE, O.L., GRUNDY, W.M., MOORE, J.M., STERN, S.A., RUNYON, K.D., WEAVER, H.A., AND YOUNG, L.A. (2019) *Chaos Terrains on Pluto, Europa, and Mars — morphological comparison of blocks.* *Lunar & Planetary Sci.* **50**, 2146 (Abstract).

- SKJETNE, H.L., SINGER, K.N., HYNEK, B.M., KNIGHT, K.I., SCHENK, P.M., OLKIN, C.B., WHITE, O.L., MCKINNON, W.B., BERTRAND, T., MOORE, J.M., STERN, S.A., RUNYON, K.D., WEAVER, H.A., AND YOUNG, L.A. (2019) *Chaos terrains on Pluto, Europa, and Mars — morphological comparison of blocks*. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7011 (Abstract).
- SKJETNE, H.L., SINGER, K.N., HYNEK, B.M., KNIGHT, K.I., SCHENK, P.M., OLKIN, C.B., WHITE, O.L., BERTRAND, T., RUNYON, K.D., MCKINNON, W.B., MOORE, J.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2021) *Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars*. *Icarus* **356**, 113856.
- SKJETNE, H.L., SINGER, K.N., HYNEK, B.M., SCHENK, P.M., OLKIN, C.B., WHITE, O.L., BERTRAND, T., RUNYON, K.D., MCKINNON, W.B., MOORE, J.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2021) *Chaos terrains on Pluto, Europa, and Mars: insights to crustal lithology and structure*. *Lunar & Planetary Sci.* **52**, 2052 (Abstract).
- SKJETNE, H.L., SINGER, K.N., HYNEK, B.M., KNIGHT, K.I., SCHENK, P.M., OLKIN, C.B., WHITE, O.L., BERTRAND, T., RUNYON, K.D., MCKINNON, W.B., MOORE, J.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., AND ENNICO, K. (2021) *Morphological comparison of blocks in chaos terrains on Pluto, Europa, and Mars*. *Icarus* **356**, 113866.
- SLATER, D.C., DAVIS, M.W., OLKIN, C.B., SCHERRER, J., AND STERN, S.A. (2005) *Radiometric performance results of the New Horizons' ALICE UV imaging spectrograph*. *Proc. SPIE* **5906**, 368–379.
- SLESARENKO, V.YU., BASHAKOVA, E.A., AND DEVYATKIN, A.V. (2015) *Astrometrical observations of Pluto-Charon system with the automated telescopes of Pulkovo Observatory*. *Planetary and Spa. Sci.* **122**, 66–69.
- SLIPHER, V.M. (1929) *Report of the Lowell Observatory to the American Astronomical Society*. *Pop. Astron.* **37**, 138–141.
- SLIPHER, V.M. (1930) *Report of the Lowell Observatory to the American Astronomical Society*. *Pop. Astron.* **38**, 224–228.
- SLIPHER, V.M. (1930) *The trans-Neptunian planet*. *Pop. Astron.* **38**, 415.
- SLIPHER, V.M. (1930) *Planet X—Lowell Observatory Observation Circular*. *Jour. Roy. Astron. Soc. Canada* **24**, 282–284.
- SLIPHER, V.M. (1930) *The discovery of a solar system body apparently trans-Neptunian*. *Lowell Observatory Observation Circular*, 13 March 1930.
- SLIPHER, V.M. (1930) ????. *Lowell Observatory Observation Circular*, 23 March 1930.
- SLIPHER, V.M. (1930) (untitled.) *Lowell Observatory Observation Circular*, 1 May 1930.
- SLIPHER, V.M. (1930) *Minutes of the 9 May 1930 meeting*. *Mon. Not. Roy. Astron. Soc.* **90**, 616.
- SLIPHER, V.M. (1931) *Report of the Lowell Observatory to the American Astronomical Society*. *Pop. Astron.* **39**, 204–207.
- SLIPHER, V.M. (1931) *Pluto*. *Jour. Brit. Astron. Assoc.* **39**, 354.
- SLIPHER, V.M. (1933) *Pluto*. In “Spectrographic studies of the planets,” *Mon. Not. Roy. Astron. Soc. Supp.* **93**, 665.
- SLIPHER, V.M. (1938) *The trans-Neptunian planet search*. *Proc. Amer. Phil. Soc.* **79**, 435.
- SLIVAN, S.M. (1989) *A refined model of Pluto's atmosphere using OSBERT and AMELIA*. S.M. thesis, S.M. thesis, Massachusetts Institute of Technology, Cambridge, MA.
- SLIVAN, S.M., AND DUNHAM, E.W. (1989) *Constraints on the structure of Pluto's atmosphere*. *Bull. Amer. Astron. Soc.* **21**, 986 (Abstract).
- SMAK, J. (1990) *Pluto, Charon, and the Planet X?* *Urania* **61**, 306–312.
- SMILEY, C.H. (1930) *A comparison of 1930 observations of Pluto*. *Astron. Nachr.* **239**, 113.

- SMILEY, C.H. (1931) *Mathematical features of Pluto's orbit*. *Pub. Amer. Astron. Soc.* **7**, 16–17 (Abstract).
- SMITH, B.A. (1992) *NASA studying mission to Pluto in the late 1990s*. *Aviation Week & Space Technology* **137**, no. 9, 22–23.
- SMITH, B.A. (1994) *U.S./Russian flights to planets discussed*. *Aviation Week & Space Technology* **140**, no. 25, 60.
- SMITH, J.C. (1978) 1978 P1. *IAU Circular No.* 3241, 1.
- SMITH, H.J. (1986) *Activities of the Department of Astronomy and McDonald Observatory of the University of Texas at Austin, Semiannual Report 1 Jan.–30 Jun. 1986* ???.
- SMITH, H.J., BARKER, E., COCHRAN, W.D., AND TRAFTON, L.M. (1986) *A continued program of planetary study at the University of Texas McDonald Observatory. Reports of Planetary Astronomy—1985 NASA Technical Memorandum 89189*, 55–56 (Abstract).
- SMITH, H.J., TRAFTON, L.A., COCHRAN, W., BARKER, E., AND COCHRAN, A. (1988) *A continued program of planetary study. Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 115 (Abstract).
- SMITH, H.T., HILL, M., KOLLMAN, O., AND MCNUTT, R. (2015) *Exploring potential Pluto-generated neutral tori*. *Bull. Amer. Astron. Soc.* **47**, 210.33 (Abstract).
- SMITH, K.T. (2015) *Planetary Science: New Horizons' views of Pluto*. *Science* **350**, no. 6258290-B.
- SMITH, K.T. (2018) *Methane ice dunes on Pluto*. *Science* **360**, no. 6392976–978.
- SMITH, K.T. (2019) *Outer solar system: Impact craters on Pluto and Charon*. *Science* **363**, no. 6430, 942.
- SMITH, K.T. (2019) *New Horizons flies past MU₆₉*. *Science* **364**, no. 6441, 645–647.
- SMITH, L.T., SCHAEFER, B.E., AND BUIE, M.W. (2005) *A new light curve for Pluto from 1933*. *Bull. Amer. Astron. Soc.* **37**, 485 (Abstract).
- SMITH, R.E. AND WEST, G.S. (1983) *Pluto. Space and planetary environment criteria guidelines for use in space vehicle development, 1982 revision (Volume II) NASA Technical Memorandum 82501*, 11.1–11.9.
- SMITH, R.J. AND MARCHANT, J.M. (2015) *Visible-band (390–940nm) monitoring of the Pluto absorption spectrum during the New Horizons encounter*. *Bull. Amer. Astron. Soc.* **47**, 210.34 (Abstract).
- SMITH, W.H., HAMMER, P., REITSEMA, H., ALBERT, H., NELSON, R., MCKINNON, W., AND BAINES, K. (1993) “PRIMIS: Pluto Reflectance Imaging-Mapping Spectrometer. Part 2.” In *Lunar and Planetary Institute Workshop on Advanced Technologies for Planetary Instruments (Houston, TX, LPI)*, 20.
- SMOLUCHOWSKI, R. (1980) “Recent progress in planetary physics and chemistry.” In *Astrophysics from Spacelab*, ed. P.L. Bernacca and R. Ruffini (Dordrecht, D. Reidel Publishing Co.), pp. 493–525.
- SMULLEN, R. AND KRATTER, K.M. (2016) *The fate of debris in the Pluto–Charon system*. *Bull. Amer. Astron. Soc.* **47**, 303.03 (Abstract).
- SMULLEN, R. AND KRATTER, K.M. (2017) *The fate of debris in the Pluto–Charon system*. *Mon. Not. Roy. Astron. Soc.* **466**, no. 4, 4480–4491.
- SMYE-RUMSBY, G. (1987) *Pluto, planet of mystery*. *Pop. Astron.* **34**, no. 1, 6–8.
- SOBEL, D. (1993) *The last world*. *Discover* **14**, no. 5, 68–76.
- SOIFER, B.T., NEUGEBAUER, G., AND MATTHEWS, K. (1980) *The 1.5–2.5 micron spectrum of Pluto*. *Astrophys. Jour.* **85**, 166–167.
- SOIFER, B.T., NEUGEBAUER, G., AND MATTHEWS, K. (1981) *Near-infrared spectroscopy of the satellites and rings of Uranus*. *Icarus* **45**, 612–617.
- SOIFER, B.T. (1988) *Planetary astronomy. Reports of Planetary Astronomy—1986 NASA Technical Memorandum 100776*, 101–102 (Abstract).

- SOIFER, B.T. (1988) *Research at Palomar Observatory in planetary astronomy. Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 174 (Abstract).
- SOIFER, B.T. AND GOLDREICH, P. (1988) *Research at Palomar Observatory in planetary astronomy. Reports of Planetary Astronomy—1988 NASA Technical Memorandum 4063*, 119–120 (Abstract).
- SOKÓŁ, J.M., KUBIAK, M.A., AND BZOWSKI, M. (2019) *Interstellar neutral gas species and their pickup ions inside the heliospheric termination shock: the large-scale structures. Astrophys. Jour.* **879**, no. 1, 24.
- SOLOMON, S.C. AND BEATTY, J.K. (2009) *Beatty receives 2009 Robert C. Cowan Award. Eos* **90**, no. 29, 253.
- SORI, M.M., BAPST, J., BECERRA, P., AND BYRNE, S. (2019) *Islands of ice on Mars and Pluto. Jour. Geophys. Res. Planets* **124**, no. 10, 2522–2542.
- SOTER, S. (2006) *What is a planet? Astron. Jour.* **132**, 2513–2519.
- SOTO, A., RAFKIN, S.C.R., AND MICHAELS, T.I. (2016) *Atmospheric circulation and distribution of nitrogen ice on Pluto due to surface ice and topography. Lunar & Planetary Sci.* **47**, 1648 (Abstract).
- SOUAMI, D. AND SOUCHAT, J. (2012) *The solar system’s invariable plane. Astron. Astrophys.* **543**, A133.
- SOUCI, R.D. (1994) *Pluto: grim lord of the underworld. Odyssey* **5**, no. 5, 32–33.
- SOUZA, S.P., BABCOCK, B.A., PASACHOFF, J.M., GULBIS, A.A.S., ELLIOT, J.L., PERSON, M.J., AND GANGESTAD, J.W. (2006) *POETS: Portable Occultation, Eclipse, and Transit System. Pub. Astron. Soc. Pacific* **118**, 1550–1557.
- SOUZA-FELICIANO, A.C., ALVAREZ-CANDAL, A., AND JIMÉNEZ-TEJA, Y. (2018) *The Wavelet theory applied to the study of spectra of Trans-Neptunian objects. Astron. Astrophys.*, in press.
- SPENCE, P. (1995) *Focus: Pluto and company. Introduction. Astron. Now* **3**, no. 5, 37–38.
- SPENCER, J.R. AND BUIE, M.W. (2008) *First 3–4 micron observations of Triton and Pluto. Bull. Amer. Astron. Soc.* **20**, 810 (Abstract).
- SPENCER, J.R., LEBOSKY, L.A., AND SYKES, M.V. (1989) *Systematic biases in radiometric diameter determinations. Icarus* **78**, 337–354.
- SPENCER, J.R., BUIE, M.W., AND BJORAKER, G.L. (1990) *Solid methane on Triton and Pluto: 3- to 4- μ m spectrophotometry. Icarus* **88**, 491–496.
- SPENCER, J.R., TRAFTON, L.A., STANSBERRY, J.A., YOUNG, E.F., AND BINZEL, R.P. (1993) *Dynamics, volatile transport, and seasonal cycles on Pluto. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- SPENCER, J., BUIE, M., YOUNG, L., GUO, Y., AND STERN, A. (2003) *Finding KBO flyby targets for New Horizons. Earth, Moon, and Planets* **92**, 483–491.
- SPENCER, J.R. AND NEW HORIZONS SCIENCE TEAM. (2007) *New Horizons at Jupiter: observations of Io. AGU Fall Meeting Abstracts P53C*, 07 (Abstract).
- SPENCER, J.R., STERN, S., RETHERFORD, K., ABRAMOV, O., REUTER, D., CHENG, A., WEAVER, H.A., LUNSFORD, A., MOORE, J., PERRY, J., LOPES, R.M., KAMP, L., AND NEW HORIZONS SCIENCE TEAM. (2007) *New Horizons observes Io’s volcanic activity. Bull. Amer. Astron. Soc.* **39**, 437 (Abstract).
- SPENCER, J.R., STERN, S.A., CHENG, A.F., WEAVER, H.A., REUTER, D.C., RETHERFORD, K., LUNSFORD, A., MOORE, J.M., ABRAMOV, O., LOPES, R.M.C., PERRY, J.E., KAMP, L., SHOWALTER, M., JESSUP, K.L., MARCHIS, F., SCHENK, P.M., AND DUMAS, C. (2007) *Io volcanism seen by New Horizons: a major eruption of the Tvashtar volcano. Science* **318**, 240–.

- SPENCER, J.R., STERN, S.A., MOORE, J., LOPES, R.M.C., RETHERFORD, K., ABRAMOV, O., SHOWALTER, M., CHENG, A.F., WEAVER, H.A., REUTER, D.C., LUNSFORD, A., OLKIN, C., THROOP, H., AND JESSUP, K.L. (2007) *New Horizons observations of Io's volcanism. Workshop on Ices, Oceans, and Fire: Satellites of the Outer Solar System, held August 13-15, 2007. Boulder, Colorado LPI Contribution No. 1357, 134-135.*
- SPENCER, J.R., STERN, S.A., BUIE, M.W., PARKER, A.H., PORTER, S.B., BENECCHI, S.D., KAVELAARS, J.J., BINZEL, R.P., GWYN, S., OLKIN, C., THOLEN, D.J., VERBISCHER, A.J., WEAVER, H.A., AND ZANGARI, A.M. (2016) *Cold classical KBO 2014 MU69: ready for its close-up. Geological Soc. Amer. Annual Meeting P3, 211-10 (Abstract).*
- SPENCER, J. R., MOORE, J.M., MCKINNON, W.B. STERN, S.A., YOUNG, L.A., WEAVER, H.A., SINGER, K.N., HOWARD, A.D., NIMMO, F., LAUER, T., WHITE, O., OLKIN, C.B., ENNICO, K., BEYER, R.A., AND NEW HORIZONS GGI TEAM. (2016) *The geology of Pluto and Charon revealed by New Horizons. Lunar & Planetary Sci. 47, 2240 (Abstract).*
- SPENCER, J.R., STERN, S.A., MOORE, J.M., GRUNDY, W.M., MCKINNON, W.B., CRUIKSHANK, D.P., WEAVER, H.A., OLKIN, C.B., YOUNG, L., ENNICO, K., AND THE NEW HORIZONS GEOLOGY/GEOPHYSICS AND COMPOSITION THEME TEAMS. (2016) *Geology and composition of Pluto and Charon from New Horizons. Bull. Amer. Astron. Soc. 48, no. 7, 88 (Abstract).*
- SPENCER, J.R., STERN, S.A., MOORE, J.M., GRUNDY, W.M., GLADSTONE, G.R., MCKINNON, W.B., CRUIKSHANK, D.P., SUMMEERS, M.E., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND THE NEW HORIZONS PLUTO ENCOUNTER SCIENCE TEAM. (2017) *The New Horizons encounter with Pluto. Asteroids, Comets, and Meteorites 2017, 40 (Abstract).*
- SPENCER, J.R., STERN, S.A., WEAVER, H.A., OLKIN, C.B., MOORE, J.M., GRUNDY, W.M., MCKINNON, W.B., AND NEW HORIZONS SCIENCE TEAM (2019) *Beyond Pluto: the New Horizons encounter with Kuiper Belt Object 2014 MU69. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14-18, 7057 (Abstract).*
- SPENCER, J.R., SHOWALTER, M.R., LAUER, T.R., BUIE, M.W., PORTER, S.B., THROOP, H.B., GRUNDY, W.M., WEAVER, H.A., STERN, S.A., HAMILTON, D.P., KAUFMANN, D.E., VERBISCHER, A.J., ZANGARI, A.M., OLKIN, C.B., PARKER, J.W., NEW HORIZONS GEOLOGY, GEOPHYSICS,, IMAGING TEAM, NEW HORIZONS LORRI TEAM, AND NEW HORIZONS RALPH TEAM. (2019) *The search for moons and rings of 2014 MU69. Lunar & Planetary Sci. 50, 2737 (Abstract).*
- SPENCER, J., MOORE, J. AND MCKINNON, W. (2019) *Geology and geophysics of 2014 MU69: New Horizons flyby results. ESPC-DPS Joint Meeting 13, 876S (Abstract).*
- SPENCER, J.R., STERN, S.A., MOORE, J.M., WEAVER, H.A., SINGER, K.N., OLKIN, C.B., VERBISCHER, A.J., MCKINNON, W.B., PARKER, J.W., BEYER, R.A., KEANE, J.T., LAUER, T.R., PORTER, S.B., WHITE, O.L., BURATTI, B.J., EL-MAARRY, M.R., LISSE, C.M., PARKER, A.H., THROOP, H.B., ROBBINS, S.J., UMURHAN, O.M., BINZEL, R.P., BRITT, D.T., BUIE, M.W., CHENG, A.F., CRUIKSHANK, D.P., ELLIOTT, H.A., GLADSTONE, G.R., GRUNDY, W.M., HILL, M.E., HORANYI, M., JENNINGS, D.E., KAVELAARS, J.J., LINSKOTT, I.R., MCCOMAS, D.J., MCNUTT, JR., R.L., PROTOPAPA, S., REUTER, D.C., SCHENK, P.M., SHOWALTER, M.J., YOUNG, L.A., ZANGARI, A.M., ABEDIN, A.Y., BEDDINGFIELD, C.B., NENECCHI, S.D., BERNARDONI, E., BIERSON, C.J., BORNCAMP, D., BRAY, V.J., CHAIKIN, A.L., DHINGRA, R.D., FUENTES, C., FUSE, T., GAY, P.L., GWYN, S.D.J., HAMILTON, D.P., HOFGARTNER, J.D., HOLMAN, M.J., HOQWARD, A.D., HOWELL, C.J.A., KAROJI, H., KAUFMANN, D.E., KINCZYK, M., MAY, B.H., MOUNTAIN, M., PÄTZOLD, M., PETIT, J.M., PIQUETTE, M.R., REID, I.N., REITSEMA, H.J., RUNYON, K.D., SHEPPARD, S.S., STANSBERRY, J.A., STRYK, T., TANGA, P., THOLEN D.J., TRILLING, D.E., AND WASSERMAN, L.H. (2020) *The geology and geophysics of Kuiper Belt object (486958) Arrokoth. Science 367, no. 6481, 998; eaay 3999.*
- SPENCER, J., GRUNDY, W.M., NIMMO, F., AND YOUNG, L.A. (2020) *"The Pluto system after New Horizons." In The Trans-Neptunian Solar System (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds.), 271-288.*

- SPENCER, J.R., MOORE, J.M., STERN, S.A., MCKINNON, W.B., WEAVER, H.A., OLKIN, C.B., SINGER, K.N., NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING SCIENCE THEME TEAM. (2020) *The geology and geophysics of cold classical Kuiper Belt Object (486958) 2014 MU₆₉*. *Bull. Amer. Astron. Soc.* **52**, no. 1, 419.04 (Abstract).
- SPENCER, J.R., STERN, S., WEAVER, H.A., LAUER, T.R., PORTER, S.B., SHOWALTER, M.R., BUIE, M.W., VERBISCHER, A.J., THROOP, H.B., MOORE, J.M., MCKINNON, W.B., OLKIN, C.B., SINGER, K.N., PARKER, J.W., AND THE NEW HORIZONS SCIENCE TEAM. (2020) *Searching for close satellites of the New Horizons KBO flyby target (486958) Arrokoth*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 508.01 (Abstract).
- SPERLING, N. (1980) *Meeting your fellow amateur astronomers*. In “Amateur Astronomers,” *Sky and Tel.* **60**, 239–243.
- SPILKER, B.C., CHRISTIANSEN, E.H., AND RADEBAUGH, J. (2018) *Revisions to the online textbook Exploring the Planets (explanet.info): Mercury and Pluto*. *Lunar & Planetary Sci.* **49**, 2724 (Abstract).
- SPILKER, B.C., CHRISTIANSEN, E.H., AND RADEBAUGH, J. (2019) *Revisions to the Online Textbook Exploring the Planets (explanet.info): Pluto Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7062 (Abstract).
- SPILKER, T.R., RAPPAPORT, N.J., AND ARCHER, E.D. (2003) *Two-way atmospheric radio occultation: a powerful new technique for probing tenuous planetary atmospheres*. *Bull. Amer. Astron. Soc.* **35**, 957–958 (Abstract).
- SPOHN, T. AND MULTHAUP, K. (2007) *Thermal evolution of Charon and the major satellites of Uranus: constraints on early differentiation*. *AGU Fall Meeting Abstracts* **PF13**, 03 (Abstract).
- SPRINGMANN, A., KERN, S.D., AND BINZEL, R.P. (2007) *Lightcurve observations of Nix and Hydra using the Magellan Telescopes*. *Bull. Amer. Astron. Soc.* **39**, 519 (Abstract).
- SPRUNGMAN, B. (1993) *The icy planet Pluto*. *Ad Astra* **5**, no. 5, 49.
- SQUYRES, S.W. (1983) *IUGG quadrennial report overviews—planetary science 1979–1982*. *Eos* **64**, 3.
- SREMCEVIC, M., KRIVOV, A.V., AND SPAHN, F. (2003) *Impact-generated dust clouds around planetary satellites: asymmetry effects*. *Planet. Spa. Sci.* **51**, 455–471.
- STAEDTER, T. (2019) *Probing the primordial*. *Mercury* **48**, no. 1, 31–35.
- STAEHLE, R.L., ABRAHAM, D.S., CARRAWAY, J.B., ESPOSITO, P.J., HANSEN, E., SALVO, C.G., TERRILE, R.J., WALLACE, R.A., AND WEINSTEIN, S.S. (1992) “*Exploration of Pluto*.” Paper given at 43rd Congress of the International Astronautical Federation, (IAF-92-0558), Washington, DC, August 28–September 05.
- STAEHLE, R.L., CARRAWAY, J.B., SALVO, C.G., TERRILE, R.J., WEINSTEIN, S.S., AND HANSEN, E. (1992) “*Exploration of Pluto: search for applicable satellite technology*.” Paper given at Sixth Annual AIAA/Utah State University Conference on Small Satellites, Logan, Utah, September 21–24, 23 pp.
- STAEHLE, R.L., ABRAHAM, D.S., CARRAWAY, J.B., ESPOSITO, P.J., SALVO, C.G., TERRILE, R.J., WALLACE, R.A., WEINSTEIN, S.S., AND HANSEN, E. (1993) *Exploration of Pluto*. *Acta Astron.* **30**, 289–310.
- STAEHLE, R.L., ABRAHAM, D.S., APPLEBY, R.R., BREWSTER, S.C., CAPUTO, R.S., CARRAWAY, J.B., CROW, R.B., EASTER, M.B., HENRY, P.K., RUDD, R.P., SALVO, C.G., TAYLOR, M.D., TERRILE, R.J., AND WEINSTEIN, S.S. (1993) *Spacecraft missions to Pluto and Charon*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- STAEHLE, R.L., BREWSTER, S., CALDWELL, D., CARRAWAY, J., HENRY, P., HERMAN, M., KISSEL, G., PEAK, S., RANDOLPH, V., SALVO, C., STRAND, L., TERRILE, R., UNDERWOOD, M., WAHL, B., AND WEINSTEIN, S. (1993) “*Pluto mission progress: incorporating advanced technology*.” Paper given at Seventh Annual AIAA/Utah State University Conference on Small Satellites, Logan, Utah, September 13–16.

- STAEHLE, R.L., BREWSTER, S., CALDWELL, D., CARRAWAY, J., HENRY, P., HERMAN, M., KISSEL, G., PEAK, S., SALVO, C., STRAND, L., TERRILE, R., UNDERWOOD, M., WAHL, B., AND WEINSTEIN, S. (1993) "Pluto mission progress report: lower mass and flight time through advanced technology insertion." Paper given at 44th Congress of the International Astronautical Federation, Graz, Austria, October 16-22.
- STAEHLE, R.L., TERRILE, R.J., AND WEINSTEIN, S.S (1994) *To Pluto by way of a postage stamp. Planetary Report* **14**, no. 5, 4-11.
- STAEHLE, R.L., CASSINGHAM, R., CARRAWAY, J. EASTER, P., HANSEN, C., HENRY, P.K., STERN, S.A., TERRILE, R., AND WEINSTEIN, S. (1994) *Last but not least—trip to Pluto. Part 1: Pluto sciences and Pluto spacecraft. Spaceflight* **36**, 101-104.
- STAEHLE, R.L., CASSINGHAM, R., CARRAWAY, J. EASTER, P., HANSEN, C., HENRY, P.K., STERN, S.A., TERRILE, R., AND WEINSTEIN, S. (1994) *Last but not least—trip to Pluto. Part 2: trajectories and spacecraft development. Spaceflight* **36**, 140-143.
- STAEHLE, R.L., ALKALAI, L.J., WYATT, E.J., AND DOHONEY, J. (1997) *Pluto express: Advanced technologies enable lower cost missions to the outer Solar System and beyond. AIP Conference Proceedings* **387**, 85-94.
- STAEHLE, R.L. (1999) *Pluto-Kuiper Express: to our last planet and beyond. Pluto and Triton: comparisons and evolution over time, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23-24 (Abstract).*
- STAEHLE, R.L., BREWSTER, S.C., CARRAWAY, J.B., CHATTERJEE, A.K. CLARK, K.B., DOYLE R.J., HENRY, P.K., JOHANNESSEN, J.R., JOHNSON, T.V., JORGENSEN, E.J., KEMSKI, R.P., LUDWINSKI, J.M., MADDOCK, R.W., MONDT, J.F., RANDOLPH, J.E., TERRILE, R.J., AND TSURUTANI, B.T. (1999) *Ice & fire: missions to the most difficult solar system destinations ... on a budget. Acta Astron.* **45**, 423-439.
- STAEHLE, R.L., ALKALAI, L.J., WYATT, E.J., AND DOHONEY, J. (1997) *Pluto Express: advanced technologies enable lower cost missions to the outer solar system and beyond. AIP Conference Proceedings* **387**, 85-94.
- STANDISH, JR., E.M. (1989) "Pluto's orbit." Paper given at *Pluto at Perihelion, JPL, Sept. 25.*
- STANDISH, JR., E.M. (1990) *The observational basis for JPL's DE 200, the planetary ephemerides of the Astronomical Almanac. Astron. Astrophys.* **233**, 252-271.
- STANDISH, JR., E.M. (1990) *An approximation to the outer planet ephemeris errors in JPL's DE 200. Astron. Astrophys.* **233**, 272-274.
- STANDISH, E.M. (1993) *Improved ephemerides of Pluto. Pluto and Charon, Flagstaff, AZ, 1993 July 10-14 (Abstract).*
- STANDISH, JR., E.M. (1994) *Pluto and Planets X. A.S.P. Conference Series* **107**, 163-170.
- STANDISH, E.M. (1994) *The edge! Odyssey* **3**, no. 8, 2-3.
- STANDISH, E.M. (1994) *Improved ephemerides of Pluto. Icarus* **108**, 180-185.
- STANDISH, E.M. (2004) *An approximation to the errors in the planetary ephemerides of the Astronomical Almanac. Astron. Astrophys.* **417**, 1165-1171.
- STANKIEWICZ, R. (2020) *New Horizons, a poem. Jour. Roy. Astron. Soc. Canada* **113**, no. 2, 72.
- STANSBERRY, J.A. AND LUNINE, J.I., AND TOMASKO, M.G. (1989) *Upper limits on photochemical hazes on Pluto. Geophys. Res. Letters* **16**, 1221-1224.
- STANSBERRY, J.A., LUNINE, J.I., YELLE, R.V., HUBBARD, W.B., BUIE, M.W., AND YOUNG, E.F. (1993) *Pluto's troposphere. Pluto and Charon, Flagstaff, AZ, 1993 July 10-14 (Abstract).*
- STANSBERRY, J.A., SPENCER, J.R., AND LUNINE, J.I. (1993) *Evolution of volatile solid solutions on Triton and Pluto. Bull. Amer. Astron. Soc.* **25**, 1130 (Abstract).

- STANSBERRY, J.A. (1994) *Surface-atmosphere coupling on Triton and Pluto*. Ph. D. dissertation, Univ. of Arizona, Tucson, AZ.
- STANSBERRY, J.A., LUNINE, J.I., HUBBARD, W.B., YELLE, R.V., AND HUNTEN, D.M. (1994) *Mirages and the nature of Pluto's atmosphere*. *Icarus* **111**, 503–513.
- STANSBERRY, J.A. (1995) *Triton and Pluto: on the frozen fringe*. *Ad Astra* **7**, no. 6, 39–42.
- STANSBERRY, J.A. (1996) *Pluto not a planet?* *Astronomy* **24**, no. 7, 16,20.
- STANSBERRY, J.A., PISANO, D.J., AND YELLE, R.V. (1996) *The emissivity of volatile ices on Triton and Pluto*. *Planetary and Spa. Sci.* **44**, 945–955.
- STANSBERRY, J.A., SPENCER, J.R., SCHMITT, B., BECNHKOURA, A., YELLE, R.V., AND LUNINE, J.I. (1996) *A model for the overabundance of methane in Pluto's atmosphere*. *Planetary and Spa. Sci.* **44**, 1051–1063.
- STANSBERRY, J.A., ELLIOT, J.L., AND OLKIN, C.B. (1996) *Strong zonal winds in Triton's (and Pluto's?) middle atmosphere*. *Bull. Amer. Astron. Soc.* **28**, 1079 (Abstract).
- STANSBERRY, J.A. AND YELLE, R.V. (1999) *Emissivity and the fate of Pluto's atmosphere*. *Icarus* **141**, 299–306.
- STANSBERRY, J. (1999) *Kuiper Belt may yield strange new worlds*. *Eos* **80**, 37–38.
- STANSBERRY, J.A. AND GRUNDY, W.M. (1999) *Current state and evolution of the surfaces and atmospheres of Triton and Pluto*. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- STANSBERRY, J.A. (2004) "Triton, Pluto, and beyond." In *Icy worlds of the solar system* (P. Dasch, ed., Cambridge, UK, Cambridge University Press), 139–167.
- STANSBERRY, J., GRUNDY, W., BROWN, M. CRUIKSHANK, D., SPENCER, J., TRILLING, D., AND MARGOT, J.L. (2008) "Physical properties of Kuiper Belt and Centaur objects: constraints from Spitzer Space Telescope." In *The solar system beyond Neptune* (M.A. Barucci, H. Boehnhardt, D.P. Cruikshank, and A. Morbidelli, eds.), University of Arizona Press, Tucson 161–179.
- STANSBERRY, J.A., LELLOUCH, E., GRUNDY, W., HICKS, M., BUIE, M., AND YOUNG, L. (2009) *Pluto's changing surface in the far-IR*. *Bull. Amer. Astron. Soc.* **41**, 6.02 (Abstract).
- STANSBERRY, J.A., SPENCER, J.R., AND LINSKOTT, I. (2015) *Voyager IRIS measurements of Triton's thermal emission: implications for Pluto?* *Bull. Amer. Astron. Soc.* **47**, 210.32 (Abstract).
- STANSBERRY, J., YOUNG, L., LUNINE, J., TRAFTON, L. GRUNDY, W., SPENCER, J.R., MCKINNON, W.B., NIMMO, F., SCHENK, P., MOORE, J.M., KEANE, J.T., ENNICO, K., OLKIN, C., STERN, S.A., AND WEAVER, H.A. (2018) *Long-term evolution of Sputnik Planitia: cryo-clastic eruptions and their implications*. *Bull. Amer. Astron. Soc.* **50**, 506.07 (Abstract).
- STARK, G., LEWIS, B.R., GIBSON, S.T., HEAYS, A., AND SMITH, P.L. (2006) *Molecular nitrogen photoabsorption cross section measurements and models in support of analyses of planetary atmospheres*. *Bull. Amer. Astron. Soc.* **38**, 609 (Abstract).
- STAUFFER, N.W. (1989) *The seasons of Pluto*. *Technology Review* **92**, no. 5, 9–10.
- STECKLOFF, J.K., LISSE, C.M., SAFRIT, T.K., BOSH, A.S., LYRA, W., AND SARID, G. (2021) *The sublimative evolution of (486958) Arrokoth*. *Icarus* **356**, 113998.
- STEEL, D.I. (1985) *The orbital evolution of Pluto-like objects*. *The Observatory* **105**, 40–42.
- STEEL, D.I. (1998) *Pluto here we come*. *Australasian Science (incorporating Search)* **19**, no. 4, 43–45.
- STEFFEY, P.C. (1995) *Color me Pluto*. *Astronomy* **23**, no. 5, 15; 17 (Letter to editor).
- STEFFL, A.J., MUTCHLER, M.J., WEAVER, H.A., STERN, S.A., DURDA, D.D., TERRELL, D., MERLINE, W.J., YOUNG, L.A., YOUNG, E.F., BUIE, M.W., AND SPENCER, J.R. (2006) *New constraints on additional satellites of the Pluto system*. *Astron. Jour.* **132**, 614–619.

- STEFFL, ANDREW J., A'HEARN, M.F., BERTAUX, J.L., FELDMAN, P.D., GLADSTONE, G.R., PARKER, J.W., RETHERFORD, K.D., SLATER, D.C., STERN, S.A., VERSTEEG, M., AND WEAVER, H.A. (2007) *UV observations of the Io plasma torus from New Horizons and Rosetta*. *Bull. Amer. Astron. Soc.* **39**, 415 (Abstract).
- STEFFL, A.J. AND STERN, S.S. (2006) *First observational constraints on rings in the Pluto system*. *Bull. Amer. Astron. Soc.* **38**, 557 (Abstract).
- STEFFL, A.J. AND STERN, S.S. (2007) *First constraints of rings in the Pluto system*. *Astron. Jour.* **133**, 1485–1489.
- STEFFL, A.J., SHINN, A.B., GLADSTONE, G.R., PARKER, J.W., RETHERFORD, K.D., SLATER, D.C., VERSTEEG, M.H., AND STERN, S.S. (2012) *MeV electrons detected by the Alice UV spectrograph during the New Horizons flyby of Jupiter*. *Jour. Geophys. Res.* **117**, A10, 10222.
- STEFFL, A.J., SHINN, A.B., DESROCHE, M.J., GLADSTONE, G.R., PARKER, J.W., RETHERFORD, K.D., SLATER, D.C., VERSTEEG, M.H., AND STERN, S.A. (2011) *Energetic electrons in the Jovian magnetosphere detected by the Alice UV Spectrograph aboard New Horizons*. *EPSC Abstracts* **6**, 1315 (Abstract).
- STEFFL, A., YOUNG, L., STROBEL, D., KAMMER, J., EVANS, J.S., ENNICO, K., GLADSTONE, R., GREATHOUSE, T., HINSON, D., OLKIN, C., PARKER, J. RETHERFORD, K., SCHINDHELM, R., STERN, A., SUMMERS, M., AND WEAVER, H. (2019) *Pluto's ultraviolet spectrum, airglow emissions, and surface reflectance*. *ESPC–DPS Joint Meeting* **13**, 1213S (Abstract).
- STEFFL, A.J. AND STERN, S.S. (2012) *MeV electrons detected by the Alice UV spectrograph during the New Horizons flyby of Jupiter*. *Astron. Jour.* **133**, 1485–1489.
- STEFFL, A.J., YOUNG, L.A., STROBEL, D.F., KAMMER, J.A., EVANS, J.S., STEVENS, M.H., SCHINDHELM, R.N., PARKER, J.W., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., CUMMINGS, J.R., GLADSTONE, G.R., GREATHOUSE, T.K., HINSON, D.P., RETHERFORD, K.D., SUMMERS, M.E., AND VERSTEEG, M. (2020) *Pluto's ultraviolet spectrum, surface reflectance, and airglow emissions*. *Astron. Jour.* **159**, no. 6, 274.
- ŠTEINS, K. (1950) *Precision of an orbit from 3 observations: third example*. *Acta Astronomica* **5 Série A**, 36.
- STEKLOV, A.F. (1977) *Atmospheres of planetary satellites I. — possible existence*. *Astron. Vestnik* **11**, 219–225 (Abstract).
- STEKLOV, A.F. (1978) *Atmospheres of planetary satellites I. — possible existence*. *Spa. Sci. Rev.* **11**, 179–185.
- STEPANTOV, V.A. AND CHURYUMOV, K.I. (1995) *On isotopic composition of hydrogen and carbon in the outer solar system*. *Bull. Amer. Astron. Soc.* **27**, 1173 (Abstract).
- STEPHENS, S. (1994) *Telescopes that fly*. *Astronomy* **22**, no. 11, 46–53.
- STERN, S.A. AND TRAFTON, L. (1981) *Seasonal variations in the global dynamical regime of Pluto's atmosphere*. *Bull. Amer. Astron. Soc.* **13**, 734.
- STERN, S.A. AND TRAFTON, L. (1984) *Constraints on bulk composition, seasonal variation, and global dynamics of Pluto's atmosphere*. *Icarus* **57**, 231–240.
- STERN, S.A. (1987) *Absolute constraints on Pluto's density*. *Bull. Amer. Astron. Soc.* **19**, 860 (Abstract).
- STERN, S.A. (1987) *Pluto and Charon: Implications of Bouet's empirical relation*. *Jour. Roy. Astron. Soc. Canada* **81**, 157–159.
- STERN, S.A., WHIPPLE, A.L., AND TRAFTON, L.M. (1987) *Theoretical considerations and observational constraints on additional satellites of Pluto*. *Bull. Amer. Astron. Soc.* **19**, 1072 (Abstract).
- STERN, S.A. (1988) *Constraints on Pluto's density and composition*. *Icarus* **73**, 269–278.
- STERN, S.A., TRAFTON, L.M., AND GLADSTONE, G.R. (1988) *Why is Pluto bright? Implications of the albedo and lightcurve behavior of Pluto*. *Icarus* **75**, 485–498.

- STERN, S.A., SKINNER, T.E., BROSCHE, N., VAN SANTVOORT, J., AND TRAFTON, L.A. (1988) *The UV spectrum of Pluto: 2600 – 3150Å*. *Bull. Amer. Astron. Soc.* **20**, 806 (Abstract).
- STERN, S.A. (1989) *Pluto: Comments on crustal composition, evidence for global differentiation*. *Icarus* **81**, 14–23.
- STERN, S.A., SKINNER, T.E., BROSCHE, N., VAN SANTVOORT, J., AND TRAFTON, L.M. (1989) *UV spectroscopy of Triton and Pluto: comparative results*. *Bull. Amer. Astron. Soc.* **21**, 766 (Abstract).
- STERN, S.A., SKINNER, T.E., BROSCHE, N., VAN SANTVOORT, J., AND TRAFTON, L.M. (1989) *The first UV spectrum of Triton: IUE observations from 2600–3200Å*. *Astrophys. Jour.Lett.* **341**, L107–L110.
- STERN, S.A., SKINNER, T.E., BROSCHE, N., VAN SANTVOORT, J., AND TRAFTON, L.M. (1989) *The UV spectrum of Pluto–Charon: IUE observations from 2600–3100Å*. *Astrophys. Jour.* **342**, 533–538.
- STERN, S.A. (1989) *The effects of stellar perturbations on the orbits of the outer planets and objects in the Kuiper–Duncan disk*. *Lunar & Planetary Sci.* **XX**, 1056 (Abstract).
- STERN, S.A. (1989) *Pluto at perihelion*. *Geophys. Res. Letters* **16**, 1205–1208.
- STERN, S.A., BROSCHE, N., GLADSTONE, R., AND TRAFTON, L.M. (1990) *Rotationally resolved UV spectra of Pluto and Triton from 2600–3150Å*. *Bull. Amer. Astron. Soc.* **22**, 1130 (Abstract).
- STERN, S.A., FESTOU, M.C., VAN SANTVOORT, J., AND BURATTI, B.J. (1990) *The first UV spectrum of a Uranian satellite: IUE observations of Oberon from 2650–3200Å*. *Astron. Jour.* **100**, 1676–1679.
- STERN, S.A. (1990) *External perturbations on distant planetary orbits and objects in the Kuiper Belt*. *Cel. Mech. Dyn. Astron.* **47**, 267–273.
- STERN, S.A. (1990) *2001! A mission to Pluto*. *Astronomy* **18**, no. 7, 10–11.
- STERN, S.A. (1991) *On the number of planets in the outer solar system: evidence of a substantial population of 1000-km bodies*. *Icarus* **90**, 271–281.
- STERN, S.A. (1991) *On the number of planetary bodies created in the outer solar system*. *Lunar & Planetary Sci.* **XXII**, 1331 (Abstract).
- STERN, S.A. (1991) *Pluto–Charon: a double planet on the ragged edge of the solar system*. *Bull. Amer. Astron. Soc.* **23**, 962 (Abstract).
- STERN, S.A., BROSCHE, N., BARKER, E.S., AND GLADSTONE, G.R. (1991) *Rotationally resolved mid-ultraviolet studies of Triton and the Pluto/Charon system I: IUE results*. *Icarus* **92**, 332–341.
- STERN, S.A., BARKER, E.S., AND GLADSTONE, G.R. (1991) *Rotationally resolved UV studies of Triton: IUE's preview and HST's promise*. *Bull. Amer. Astron. Soc.* **23**, 1208 (Abstract).
- STERN, S.A., FESEN, R.A., BARKER, E.S., PARKER, J.W., AND TRAFTON, L.M. (1991) *A search for distant satellites of Pluto*. *Bull. Amer. Astron. Soc.* **23**, 1210–1211 (Abstract).
- STERN, S.A., FESEN, R.A., BARKER, E.S., PARKER, J.W., AND TRAFTON, L.M. (1991) *A search for distant satellites of Pluto*. *Icarus* **94**, 246–249.
- STERN, A. (1992) *Where has Pluto's family gone?* *Astronomy* **20**, no. 9, 40–47.
- STERN, S.A. (1992) *The Pluto–Charon system*. *Ann. Rev. Astron. Astrophys.* **30**, 185–233.
- STERN, S.A. AND WEINTRAUB, D.A. (1992) *Millimeter-wave measurements of Pluto's thermal emission*. *Bull. Amer. Astron. Soc.* **24**, 961–962 (Abstract).
- STERN, S.A., WEINTRAUB, D.A., AND FESTOU, M.C. (1993) *Evidence for a low surface temperature on Pluto from millimeter-wave thermal emission measurements*. *Science* **261**, 1713–1716.
- STERN, A. AND MARSHALL, E. (1993) *Support for Pluto mission*. *Science* **259**, 14.
- STERN, A. (1993) *The Pluto reconnaissance flyby mission*. *Eos* **74**, 73, 76–78.
- STERN, S.A. (1993) *Shedding new light on Pluto*. *Earth and Space* **5**, no. 6, 12–13.
- STERN, S.A. (1993) *Where are brothers of Pluto?* *Kozmos* **24**, no. 6, 13–16.

- STERN, S.A., DUNCAN, M.J., BARKER, E.S., AND LEVINSON, H.F. (1993) *Photometric and dynamical constraints on additional satellites of Pluto. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- STERN, S.A. (1993) “Pluto Fast Flyby Mission and science overview.” In *Lunar and Planetary Institute Workshop on Advanced Technologies for Planetary Instruments (Houston, TX, LPI), 23.*
- STERN, S.A., MCKINNON, W.B., AND LUNINE, J.I. (1993) *The origin of Pluto, Charon, & the Pluto–Charon binary. Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract).*
- STERN, S.A. (1993) “Chairmanship of the Neptune/Pluto outer planets science working group.” In *Annual Report Southwest Research Institute; NASA CR-194625 (San Antonio, TX), ???.*
- STERN, S.A., PARKER, J.A., DUNCAN, M.J., SNOWDALL JR., J.C., AND LEVISON, H.F. (1994) *Dynamical and observational constraints on satellites in the inner Pluto–Charon system. Icarus 108, 234–242.*
- STERN, S.A. AND LEVISON, H. (1994) “The origin of Pluto.” Paper given at *Completing the inventory of the solar system, Flagstaff, AZ, 27–29 June 1994, ???.*
- STERN, A. (1994) *Hot science on a cryogenic world. Planetary Report 14, no. 5, 8.*
- STERN, S.A. (1994) *Pluto, alone no more. Technology Today ???, (May 1994 issue).*
- STERN, S.A. (1994) *Planet politics. Sky and Tel. 88, 8 (Letter to editor).*
- STERN, S.A., BUIE, M.W., TRAFTON, L.M., AND FLYNN, B.C. (1995) *High-resolution HST images of the Pluto–Charon system. Lunar & Planetary Sci. 26, 1359–1360 (Abstract).*
- STERN, S.A., FLYNN, B.C., BUIE, M.W., BINZEL, R.P., FESTOU, M., LEBOFISKY, L.A., AND TRAFTON, L.M. (1995) *Disk-resolved images of Pluto and Ceres from the Hubble Space Telescope. Bull. Amer. Astron. Soc. 27, 1448 (Abstract).*
- STERN, S.A., SLATER, D.C., GIBSON, W., REITSEMA, H.J., DELAMERE, W.A., JENNINGS, D.E., REUTER, D.C., CLARKE, J.T., PORCO, C.C., SHOEMAKER, E.M., AND SPENCER, J.R. (1995) *Highly integrated Pluto payload system (HIPPS): a scientific instrument for the Pluto mission. Proc. SPIE 2518, 39–58.*
- STERN, S.A. (1996) *The historical development and status of Kuiper Disk studies. A.S.P. Conference Proceedings, Completing the Inventory of the Solar System 107, 209–232.*
- STERN, S.A. AND CAMPINS, H. (1996) *Chiron and the Centaurs: escapees from the Kuiper Belt. Nature 382, 507–510.*
- STERN, S.A. (1997) *Obituary: Clyde Tombaugh (1906–97). Nature 385, 778.*
- STERN, S.A., BUIE, M.W., AND TRAFTON, L.M. (1997) *HST high-resolution images and maps of Pluto. Astron. Jour. 113, 827–843, 885.*
- STERN, S.A. AND COLWELL, J.E. (1997) *Accretion in the Edgeworth–Kuiper Belt: forming 100–1000 km radius bodies at 30 AU and beyond. Astron. Jour. 114, 841–849.*
- STERN, S.A. (1997) “Ask Astro.” In *Astronomy 25, no. 1087.*
- STERN, A. AND MITTON, J. (1998) *Pluto and Charon: ice worlds on the ragged edge of the solar system. (New York, John Wiley & Sons), 216 pp.*
- STERN, A. AND MITTON, J. (2005) *Pluto and Charon: ice worlds on the ragged edge of the solar system. 2nd edition. (New York, John Wiley & Sons), 256 pp.*
- STERN, S.A. (1998) “Pluto and the Kuiper disk.” In *Solar system ices, ed. B. Schmitt et al. (Kluwer Academic Publishers), pp. 685–709.*
- STERN, S.A. (1998) *Pluto and the Kuiper Disk. 1998 Astrophys. and Spa. Sci. Library, 227 685–710.*
- STERN, S.A., CANUP, R., AND DURDA, D.D. (1999) *Pluto’s family: debris from the binary–forming collision in the 2:3 resonance? Lunar & Planetary Sci. 30, 1213 (Abstract).*
- STERN, S.A., CANUP, R.M., ASPHAUG, E., AND DURDA, D.D. (1999) *Pluto’s family: might some Plutinos be debris from the Pluto–Charon binary formation event? Bull. Amer. Astron. Soc. 31, 1109 (Abstract).*

- STERN, S.A. (1999) *The plight of Pluto—reply*. *Natural History* **108**, no. 4, 8.
- STERN, S.A. (1999) *Pluto, the Edgeworth–Kuiper Belt, and the Pluto–Kuiper Express Flyby mission (Invited)*. *Bull. Amer. Astron. Soc.* **31**, 1119 (Abstract).
- STERN, S.A. AND CHENG, A.F. (2001) *2004: key year for Pluto mission*. *Aviation Week & Space Technology* **155**, no. 5, 66.
- STERN, S.A. AND CHENG, A.F. (2002) *NASA plans Pluto–Kuiper Belt mission*. *Eos* **83**, 101, 108–109.
- STERN, S.A. (2002) *Journey to the farthest planet*. *Sci. Amer.* **286**, 56–63.
- STERN, S.A. (2003) *Does the Pluto system contain additional satellites?* *Lunar & Planetary Sci.* **34**, 1106 (Abstract).
- STERN, S.A., BOTTKER, W.F., AND LEVISON, H.F. (2003) *Regarding the putative eccentricity of Charon’s orbit*. *Astron. Jour.* **125**, 902–905.
- STERN, A. AND CHENG, A. (2003) “*New Horizons: a Pluto–Kuiper belt mission*.” Paper given at *34th COSPAR Scientific Assembly, 10–19 October, 2002 in Houston, TX*. Abstract ???.
- STERN, S.A. (2003) *Does the Pluto system contain additional satellites?* *Lunar & Planetary Sci.* **34**, ??? (Abstract).
- STERN, S.A. (2003) *Comparison of the heliocentric and absolute magnitude distributions of KBOs with satellites to other KBOs*. *Bull. Amer. Astron. Soc.* **35**, 1016 (Abstract).
- STERN, S.A. (2002) *Delayed gratification habitable zones: when deep outer solar system regions become balmy during Post–Main Sequence stellar evolution*. *Bull. Amer. Astron. Soc.* **34**, 917 (Abstract).
- STERN, S.A. AND SPENCER, J. (2003) *New Horizons: the first reconnaissance mission to bodies in the Kuiper Belt*. *Earth, Moon, and Planets* **92**, 477–482.
- STERN, S.A. (2003) *Delayed gratification habitable zones: when deep outer solar system regions become balmy during Post–Main Sequence stellar evolution*. *Astrobiology* **3**, no. 2, 317–321.
- STERN, S.A., SCHERRER, J., SLATER, D.C., GLADSTONE, G.R., DIRKS, G., STONE, J., DAVIS, M., VERSTEEG, M., AND SIEGMUND, O.H.W. (2005) *ALICE: the ultraviolet imaging spectrograph aboard the New Horizons Pluto mission spacecraft*. *Proc. SPIE* **5906**, 358–367.
- STERN, S.A., WEAVER, H.A., YOUNG, L.A., MCKINNON, W.B., AND NEW HORIZONS SCIENCE TEAM. (2006) “*The New Horizons mission: a first reconnaissance of the Sun’s third zone*.” Paper given at *36th COSPAR Scientific Assembly, 16–23 July 2010, Beijing, China, #3429*, .
- STERN, S.A. AND YELLE, R.V. (2007) “*Pluto and Charon*” In *The Encyclopedia of the solar system, 2nd edition* (T.V. Johnson, P.R. Weissman, and L.A. McFadden, Academic Press), pp. ???.
- STERN, S.A., WEAVER, H.A., STEFFL, A.J., MUTCHLER, M.J., MERLINE, W.J., BUIE, M.W., YOUNG, E.F., YOUNG, L.A., AND SPENCER, J.R. (2006) *A giant impact origin for Pluto’s small moons and satellite multiplicity in the Kuiper belt*. *Nature* **439**, 946–948.
- STERN, S.A., WEAVER, H.A., MUTCHLER, M.J., STEFFL, A.J., MERLINE, W.J., SPENCER, J.R., BUIE, M.W., YOUNG, E.F., AND YOUNG, L.A. (2006) *S/2005 P1 and S/2005 P2* IAU Circular No. 8686, 1.
- STERN, S.A., WEAVER, H.A., STEFFL, A.J., MUTCHLER, M.J., MERLINE, W.J., BUIE, M.W., YOUNG, E.F., YOUNG, L.A., AND SPENCER, J.R. (2006) *The origin of the quadruple system at Pluto*. *Lunar & Planetary Sci.* **37**, 1241 (Abstract).
- STERN, S.A., WEAVER, H.A., STEFFL, A.J., MUTCHLER, M.J., MERLINE, W.J., BUIE, M.W., W.J., YOUNG, E.F., YOUNG, L.A., AND SPENCER, J.R. (2006) *Characteristics and origin of the quadruple system at Pluto*. *Nature*, in press.
- STERN, S.A., MUTCHLER, M.J., WEAVER, H.A., AND STEFFL, A.J. (2006) *The positions, colors, and photometric variability of Pluto’s small satellites from HST observations 2005–2006*. arXiv:astro-ph/0605014, in press.
- STERN, S.A. (2007) *New Horizons at Jupiter*. *Bull. Amer. Astron. Soc.* **39**, 790 (Abstract).

- STERN, S.A. (2007) “Pluto.” In *Encyclopedia of the Solar System*, ed. L.A. McFadden and T. Johnson (Elsevier, San Diego, CA.), pp. 541–556.
- STERN, S.A., MUTCHLER, M.J., WEAVER, H.A., AND STEFFL, A.J. (2007) The positions, colors, and photometric variability of Pluto’s small satellites from HST observations 2005–2006. *Lunar & Planetary Sci.* **38**, 1722 (Abstract).
- STERN, S.A. AND WEAVER, H. (2006) How we discovered Pluto’s new worlds. *Astronomy* **34**, no. 6, 44–47.
- STERN, S.A., WEAVER, H.A., STEFFL, A.J., MUTCHLER, M.J., MERLINE, W.J., BUIE, M.W., YOUNG, E.F., YOUNG, L.A., AND SPENCER, J.R. (2006) A giant impact origin for Pluto’s small moons and satellite multiplicity in the Kuiper belt. *Nature* **439**, 946–948.
- STERN, S.A. (2007) New Horizons flies past Jupiter. *Astronomy* **35**, no. 4, 32–37.
- STERN, S.A. (2007) Jupiter up close and personal. *Sky and Tel.* **35**, no. 8, 28–33.
- STERN, S.A. (2007) Seven ways to view a planet. *Sky and Tel.* **35**, no. 8, 32.
- STERN, S.A. (2007) The New Horizons Pluto Kuiper Belt mission: an overview with historical context. *Spa. Sci. Rev.* **140**, no. 1–4, 3–21.
- STERN, S.A. (2010) Solar system: Pluto is again a harbinger. *Nature* **468**, no. 7325, 775–776.
- STERN, S.A., SLATER, D.C., SCHERRER, J., STONE, J., DIRKS, G., VERSTEEG, M., DAVIS, M., GLADSTONE, G.R., PARKER, J.W., YOUNG, L.A., AND SIEGMUND, O.H.W. (2007) ALICE: the Ultraviolet Imaging Spectrograph aboard the New Horizons Pluto-Kuiper Belt mission. *Spa. Sci. Rev.* **140**, no. 1–4, 155–187.
- STERN, S.A. AND TRAFTON, L.M. (2008) “On the atmospheres of objects in the Kuiper Belt.” In *The solar system beyond Neptune*, Barucci, M.A., Boehnhardt, H., Cruikshank, D.P., and Morbidelli, A., eds. (Tucson: Univ. Arizona Press), pp. 365–380.
- STERN, S.A. (2009) Ejecta exchange and satellite color evolution in the Pluto system, with implications for KBOs and asteroids with satellites. *Icarus* **199**, 571–573.
- STERN, S.A., CUNNINGHAM, N.J., HAIN, M.J., SPENCER, J.R., AND SHINN, A. (2012) First ultraviolet reflectance spectra of Pluto and Charon by the Hubble Space Telescope Cosmic Origins Spectrograph: detection of absorption features and evidence for temporal change. *Astron. Jour.* **143**, 22–25.
- STERN, S. AND GLADSTONE, R. (2013) Cometary impacts produce transient atmospheres on Charon. *Bull. Amer. Astron. Soc.* **45**, 303.06 (Abstract).
- STERN, S., GLADSTONE, R., ZANGARI, A., GOLDSTEIN, D., AND FLEMING, T. (2014) Transient atmospheres on Charon and water-ice covered KBOs resulting from comet impacts. *Lunar & Planetary Sci.* **45**, 1268 (Abstract).
- STERN, S.A. (2014) An overview of New Horizons at the Pluto system in 2015. *AGU Fall Meeting Abstracts* **P31E**, 01 (Abstract).
- STERN, S.A. (2014) The Pluto system in the context of planetary exploration. *AGU Fall Meeting Abstracts* **P11C**, 3765 (Abstract).
- STERN, S., GLADSTONE, R., ZANGARI, A., FLEMING, T., AND GOLDSTEIN, D. (2015) Transient atmospheres on Charon and water-ice covered KBOs resulting from comet impacts. *Icarus* **246**, 298–302.
- STERN, S., PORTER, S., AND ZANGARI, A. (2015) On the roles of escape erosion and the viscous relaxation of craters on Pluto. *Icarus* **250**, 287–293.
- STERN, S.A. (2015) The Pluto system explored! *Astronomy* **43**, no. 11, 24–29.
- STERN, S.A. (2015) News: In Brief. *Science* **349**, no. 6245, 218.

- STERN, S.A., BAGENAL, F., ENNICO, K., GLADSTONE, G.R., GRUNDY, W.M., MCKINNON, W.B., MOORE, J.M., OLKIN, C.B., SPENCER, J.R., WEAVER, H.A., YOUNG, L.A., ANDERT, T., ANDREWS, J., BANKS, M., BAUER, B., BAUMAN, J., BARNOUIN, O.S., BEDINI, P., BEISSER, K., BEYER, R.A., BHASKARAN, S., BINZEL, R.P., BIRATH, E., BIRD, M., BOGAN, D.J., BOWMAN, A., BRAY, V.J., BROZOVIC, M., BRYAN, C., BUCKLEY, M.R., BUIE, M.W., BURATTI, B.J., BUSHMAN, S.S., CALLOWAY, A., CARCICH, B., CHENG, A.F., CONARD, S., CONRAD, C.A., COOK, J.C., CRUIKSHANK, D.P., CUSTODIO, O.S., DALLEORE, C.M., DEBOY, C., DISCHNER, Z.J.B., DUMONT, P., EARLE, A.M., ELLIOTT, H.A., ERCOL, J., ERNST, C.M., FINLEY, T., FLANIGAN, S.H., FOUNTAIN, G., FREEZE, M.J., GREATHOUSE, T., GREEN, J.L., GUO, Y., HAHN, M., HAMILTON, D.P., HAMILTON, S.A., HANLEY, J., HARCH, A., HART, H.M., HERSMAN, C.B., HILL, A., HILL, M.E., HINSON, D.P., HOLDRIDGE, M.E., HORANYI, M., HOWARD, A.D., HOWETT, C.J.A., JACKMAN, C., JACOBSON, R.A., JENNINGS, D.E., KAMMER, J.A., KANG, H.K., KAUFMANN, D.E., KOLLMANN, P., KRIMIGIS, S.M., KUSNIERKIEWICZ, D., LAUER, T.R., LEE, J.E., LINDSTROM, K.L., LINSOTT, I.R., LISSE, C.M., LUNSFORD, A.W., MALLDER, V.A., MARTIN, N., MCCOMAS, D.J., MCNUTT, JR., R.L., MEHOKE, D., MEHOKE, T., MELIN, E.D., MUTCHLER, M., NELSON, D., NIMMO, F., NUNEZ, J.I., OCAMPO, A., OWEN, W.M., PAETZOLD, M., PAGE, B., PARKER, A.H., PARKER, J.W., PELLETIER, F., PETERSON, J., PINKINE, N., PIQUETTE, M., PORTER, S.B., PROTOPAPA, S., REDFERN, J., REITSEMA, H.J., REUTER, D.C., ROBERTS, J.H., ROBBINS, S.J., ROGERS, G., ROSE, D., RUNYON, K., RETHERFORD, K.D., RYSCHKEWITSCH, M.G., SCHENK, P., SCHINDHELM, E., SEPAN, B., SHOWALTER, M.R., SINGER, K.N., SOLURI, M., STANBRIDGE, D., STEFFL, A.J., STROBEL, D.F., STRYK, T., SUMMERS, M.E., SZALAY, J.R., TAPLEY, M., TAYLOR, A., TAYLOR, H., THROOP, H.B., TSANG, C.C.C., TYLER, G.L., UMURHAN, O.M., VERBISCHER, A.J., VERSTEEG, M.H., VINCENT, M., WEBBERT, R., WEIDNER, S., WEIGLE, II, G.E., WHITE, O.L., WHITTENBURG, K., WILLIAMS, B.G., WILLIAMS, K., WILLIAMS, S., WOODS, W.W., ZANGARI, A.M., AND ZIRNSTEIN, E. (2015) *Research Article Summary: The Pluto system: initial results from its exploration by New Horizons*. *Science* **350**, no. 6258292.
- STERN, S.A., WEAVER H., YOUNG, L., OLKIN, C., ENNICO, K., MOORE, J., GRUNDY, W., GLADSTONE, R., AND BAGENAL, F. (2015) *The Pluto System: initial results from the exploration by New Horizons*. *Bull. Amer. Astron. Soc.* **47**, 100.01 (Abstract).
- STERN, S.A. AND NASA NEW HORIZONS TEAM (2016) *New Horizons: The exploration of the Pluto system and the Kuiper Belt beyond*. *Lunar & Planetary Sci.* **47**, 1317 (Abstract).
- STERN, S.A. AND NASA NEW HORIZONS TEAM (2016) *The Exploration of the Pluto system by New Horizons*. *Bull. Amer. Astron. Soc.* **227**, 101.01 (Abstract).
- STERN, S.A. (2016) *New Horizons at Pluto: overview of results and plans for exploration after the Pluto system*. *Geological Soc. Amer. Annual Meeting* **P3**, 211-1 (Abstract).
- STERN, S.A. (2016) *New Horizons and the exploration of the Pluto system*. *Mercury* **45**, no. 2, 20–28.
- STERN, S.A., KAMMER, J.A., GLADSTONE, G.R., STEFFL, A.J., CHENG, A.F., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., PARKER, J.W., PARKER, A.H., LAUER, T.R., ZANGARI, A., SUMMERS, M., AND THE NEW HORIZONS ATMOSPHERES TEAM (2017) *New Horizons constraints on Charon's present day atmosphere*. *Icarus* **287**, 124–130.
- STERN, S.A., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., ENNICO, K., MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., GRUNDY, W., GLADSTONE, R., CRUIKSHANK, D.P., BAGENAL, F., SUMMERS, M., AND THE NEW HORIZONS TEAM. (2016) *New Horizons: overview of results from and plans after the exploration of the Pluto system*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 3 (Abstract).
- STERN, S.A., BINZEL, R.P., EARLE, A.M., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS AND ATMOSPHERES TEAMS. (2017) *Past epochs of significantly higher pressure atmospheres on Pluto*. *Icarus* **287**, 47–53.

- STERN, S.A., SPENCER, J.R., WEAVER, H.A., OLKIN, C.B., AND THE NEW HORIZONS TEAM. (2017) *Transneptunian belt science with New Horizons. Asteroids, Comets, and Meteorites* **2017**, 41 (Abstract).
- STERN, S.A., KAMMER, J.A., BARTH, E.L., SINGER, K.N., LAUER, T.R., HOFGARTNER, J.D., WEAVER, H.A., ENNICO, K., OLKIN, C.B., YOUNG, L.A., THE NEW HORIZONS LORRI INSTRUMENT TEAM, THE NEW HORIZONS RALPH INSTRUMENT TEAM, AND THE NEW HORIZONS ATMOSPHERES INVESTIGATION TEAM. (2017) *Evidence for possible clouds in Pluto's present day atmosphere. Astron. Jour.* **154**, no. 2, 43–51.
- STERN, S.A. (2017) *Puzzled by Pluto. Astronomy* **45**, no. 722–27.
- STERN, S.A. AND RUNYON, K.D. (2018) *An organically grown planet definition. Astronomy* **46**, no. 5, 28–29.
- STERN, S.A., WEAVER, H.A., SPENCER, J.R., AND ELLIOTT, H.A. (2018) *The New Horizons Kuiper Belt Extended Mission. Spa. Sci. Rev.* **214**, no. 4, 77.
- STERN, S.A., SINGER, K.N., KNOLL, K., VERBISER, A., LEVISON, H.F., BOTTKER, W.F., AND STERN, D. (2018) *Exploring the Kuiper Belt close to home: a mission to explore Centaurs. Bull. Amer. Astron. Soc.* **50**, 305.10 (Abstract).
- STERN, A. AND GRINSPOON, D. (2018) *Chasing New Horizons: inside the epic first mission to Pluto. (Picador, ???, ???), ??? pp.*
- STERN, S.A., WEAVER, H.A., YOUNG, L.A., OLKIN, C.B., MOORE, J.M., GRUNDY, W.M., MCKINNON, W.B., LAUER, T.R., CRUIKSHANK, D.P., SPENCER, J.R., GLADSTONE, G.R., ENNICO, K., AND NEW HORIZONS SCIENCE TEAM. (2019) *Pluto's far side. Pluto System After New Horizons, LPI Contribution No. 2133, Larch, MD, 2019 July 14–18, 7024 (Abstract).*

- STERN, S.A., WEAVER, H.A., SPENCER, J.R., OLKIN, C.B., GLADSTONE, G.R., GRUNDY, W.M., MOORE, J.M., CRUIKSHANK, D.P., ELLIOTT, H.A., MCKINNON, W.B., PARKER, J.W., VERBISER, A.J., YOUNG, L.A., AGUILAR, D.A., ALBERS, J.M., ANDERT, T., ANDREWS, J.P., BAGENAL, F., BANKS, M.E., BAUER, B.A., BAUMAN, J.A., BECHTOLD, K.E., BEDDINGFIELD, C.B., BEHROOZ, N., BEISSER, K.B., BENECHCHI, S.D., BERNARDONI, E., BEYER, R.A., BHASKARAN, S., BIERSON, C.J., BINZEL, R.P., BIRATH, E.M., BIRD, M.K., BOONE, D.R., BOWMAN, A.F., BRAY, V.J., BRITT, D.T., BROWN, L.E., BUCKLEY, M.R., BUIE, M.W., BURATTI, B.J., BURKE, L.M., BUSHMAN, S.S., CARCICH, B., CHAIKIN, A.L., CHAVEZ, C.L., CHENG, A.F., COLWELL, E.J., CONARD, S.J., CONNER, M.P., CONRAD, C.A., COOK, J.C., COOPER, S.B., CUSTODIO, O.S., DALLE ORE, C.M., DEBOY, C.C., DHARMAVARAM, P., DHINGRA, R.D., DUNN, G.F., EARLE, A.M., EGAN, A.F., EISIG, J., EL-MAARRY, M.R., ENGELBRECHT, C., ENKE, B.L., ERCOL, C.J., FATTIG, E.D., FERRELL, C.L., FINLEY, T.J., FIRER, J., FISCHETTI, J., FOLKNER, W.M., FOSBURY, M.N., FOUNTAIN, G.H., FREEZE, J.M., GABASOVA, L., GLAZE, L.S., GREEN, J.L., GRIFFITH, G.A., GUO, Y., HAHN, M., HALS, D.W., HAMILTON, D.P., HAMILTON, S.A., HANLEY, J.J., HARCH, A., HARMON, K.A., HART, H.M., HAYES, J., HERSMAN, C.B., HILL, M.E., HILL, T.A., HOFGARTNER, J.D., HOLDRIDGE, M.E., HORÁNYI, M., HOSADURGA, A., HOWARD, A.D., HOWETT, C.J.A., JASKULEK, S.E., JENNINGS, D.E., JENSEN, J.R., JONES, M.R., KANG, H.K., KATZ, D.J., KAUFMANN, D.E., KAVELAARS, J.J., KEANE, J.T., KELEHER, G.P., KINCZYK, M., KOCHTE, M.C., KOLLMANN, P., KRIMIGIS, S.M., KRUIZINGA, G.L., KUSNIERKIEWICZ, D.Y., LAHR, M.S., LAUER, T.R., LAWRENCE, G.B., LEE, J.E., LESSAC-CHENEN, E.J., LINSOTT, I.R., LISSE, C.M., LUNSFORD, A.W., MAGES, D.M., MALLDER, V.A., MARTIN, N.P., MAY, B.H., MCCOMAS, D.J., MCNUTT, R.L., MEHOKE, D.S., MEHOKE, T.S., NELSON, D.S., NGUYEN, H.D., NÚÑEZ, J.I., OCAMPO, A.C., OWEN, W.M., OXTON, G.K., PARKER, A.H., PÄTZOLD, M., PELGRIFT, J.Y., PELLETIER, F.J., PINEAU, J.P., PIQUETTE, M.R., PORTER, S.B., PROTOPAPA, S., QUIRICO, E., REDFERN, J.A., REGIEC, A.L., REITSEMA, H.J., REUTER, D.C., RICHARDSON, D.C., RIEDEL, J.E., RITTERBUSH, M.A., ROBBINS, S.J., RODGERS, D.J., ROGERS, G.D., ROSE, D.M., ROSENDALL, P.E., RUNYON, K.D., RYSCHKWITSCH, M.G., SAINA, M.M., SALINAS, M.J., SCHENK, P.M., SCHERRER, J.R., SCHLEI, W.R., SCHMITT, B., SCHULTZ, D.J., SCHURR, D.C., SCIPIONI, F., SEPAN, R.L., SHELTON, R.G., SHOWALTER, M.R., SIMON, M., SINGER, K.N., STAHLHEBER, E.W., STANBRIDGE, D.R., STANSBERRY, J.A., STEFFL, A.J., STROBEL, D.F., STOTHOFF, M.M., STRYK, T., STUART, J.R., SUMMERS, M.E., TAPLEY, M.B., TAYLOR, A., TAYLOR, H.W., TEDFORD, R.M., THROOP, H.B., TURNER, L.S., UMURHAN, O.M., VAN ECK, J., VELEZ, D., VERSTEEG, M.H., VINCENT, M.A., WEBBERT, R.W., WEIDNER, S.E., WEIGLE, G.E., WENDEL, J.R., WHITE, O.L., WHITTENBURG, K.E., WILLIAMS, B.G., WILLIAMS, K.E., WILLIAMS, S.P., WINTERS, H.L., ZANGARI, A.M., AND ZURBUCHEN, T.H. (2019) *Initial results from the New Horizons exploration of 2014 MU₆₉, a small Kuiper Belt object.* *Science* **364**, no. 6441, 649.
- STERN, S.A., SPENCER, J.R., WEAVER, H.A., OLKIN, C.B., MOORE, J.M., GRUNDY, W.M., GLADSTONE, G.R., MCKINNON, W.B., CRUIKSHANK, D.P., YOUNG, L.A., ELLIOTT, H.A., VERBISER, A.J., PARKER, J.W., AND NEW HORIZONS TEAM. (2019) *Overview of initial results from the reconnaissance flyby of a Kuiper Belt planetesimal: 2014 MU₆₉.* *Lunar & Planetary Sci.* **50**, 1742 (Abstract).
- STERN, S.A. (2019) *The exploration of the Pluto system and the Kuiper Belt by New Horizons.* *AGU Fall Meeting Abstracts* **P13A**, 01 (Abstract).
- STERN, S.A., SPENCER, J.R., VERBISER, A., ELLIOTT, H.E., AND PORTER, S.P. (2020) *“Initial results from the exploration of the Kuiper belt by New Horizons.”* In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds.), 379–394.
- STERN, S.A. (2020) *The New Horizons Encounter with 2014 MU₆₉.* *Bull. Amer. Astron. Soc.* **52**, no. 1, 419.01 (Abstract).
- STERN S.A., TAPLEY, M.B., FINLEY, T.J., AND SCHERRER, J.A. (2020) *Pluto Orbiter-Kuiper Belt Explorer: mission design for the gold standard.* *Jour. Spacecraft & Rockets* **57**, no. 5, 956–963.

- STERN, S., KEENEY, B.A., HOOVER, R., PROTOPAPA, S., AND THE NEW HORIZONS TEAM. (2020) *The pits of Pluto's Sputnik Planitia: volatile loss considerations*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 310.07 (Abstract).
- STERN, S.A., KEENEY, B., SINGER, K.N., WHITE, O., HOFGARTNER, J.D., GRUNDY, W., AND THE NEW HORIZONS TEAM. (2021) *Some new results and perspectives regarding the Kuiper Belt Object Arrokoth's remarkable, bright neck*. *Planetary Sci. Jour.* **2**, no. 3, 87.
- STERN, S.A., WHITE, O.L., MCGOVERN, P.J., KEANE, J.T., CONRAD, J.W., BIERSON, C.J., LAUER, T.R., OLKIN, C.B., YOUNG, L.A., SCHENK, P.M., MOORE, J.M., WEAVER, H.A., RUNYON, K.D., ENNICO, K., AND THE NEW HORIZONS TEAM. (2021) *Pluto's far side*. *Icarus* **356**, 113805.
- STERN, S.A., KEENEY, B., HOOVER, R., PROTOPAPA, S., WHITE, O., GRUNDY, W., CRUIKSHANK, D.P., AND THE NEW HORIZONS TEAM. (2021) *The properties and origin of Kuiper Belt Object Arrokoth's large mounds*. *Planetary Sci. Jour.* **4**, no. 9, 176.
- STERN, S.A., WHITE, O.L., GRUNDY, W.M., KEENEY, B.A., HOFGARTNER, J.D., NESVORNÝ, D., MCKINNON, W.B., RICHARDSON, D.C., MAROHNIC, J.C., VERBISCHER, A.J., BENECCHI, S.D., SCHENK, P.M., MOORE, J.D., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS INVESTIGATION TEAM. (2023) *New investigations of dark floored pits in the volatile ice of Sputnik Planitia on Pluto*. *Astron. Jour.* **162**, no. 5, 207.
- STETSON, D. (2000) *New horizons in solar system exploration Proceedings of the 2000 IEEE Aerospace Conference* **7**, 323–328.
- STETSON, H.T., MCLAUGHLIN, D.B., AND LA PAZ, L. (1940) *Special issue containing reports of the Third Columbus Meeting of the American Association for the Advancement of Science. Section (D) Astronomy and Associated Societies*. *Science* **91**, no. 2353, 108–109. 323–328.
- STEVENSON, D.J. (1978) "The outer planets and their satellites" In *The origin of the solar system* (NY, Wiley Interscience), 395–431.
- STEVENSON, D.J. (1993) *Volatile loss from accreting icy protoplanets*. *Lunar & Planetary Sci.* **24**, 1355–1356 (Abstract).
- STEWART, G.R. AND LISSAUER, J.J. (1995) "Planet formation." In *Transactions of the International Astronomical Union XXIII A Reports on Astronomy*, ed. I. Appenzeller (Kluwer Press, Boston), pp. 213.
- STOBER, I. AND BUCHER, K. (2005) *Deep-fluids: Neptune meets Pluto*. *Hydrogeology Jour.* **13**, no. 1, 112–115.
- STOKLEY, J. (1930) *Yardstick of the solar system*. *Sci. NewsLetter* **18**, 358–359, 364.
- STONE, R. (1993) *Will Goldin wave bye-bye to Pluto Flyby?* *Science* **262**, 979.
- STONE, R. (1994) *Agency spat snags Pluto Flyby*. *Science* **266**, 1147.
- STONE, R.C. (1996) *CCD positions for the outer planets in 1995 determined in the extragalactic reference frame*. *Astron. Jour.* **112**, 781–787.
- STONE, R.C. (1998) *CCD positions for the outer planets in 1996–1997 determined in the extragalactic reference frame*. *Astron. Jour.* **115**, 1461–1469.
- STONE, R.C. (1999) *CCD solar system astrometry reduced to the Hipparcos reference frame*. *Bull. Amer. Astron. Soc.* **31**, 849.
- STONE, R.C. AND HARRIS, F.H. (2000) *CCD positions determined in the International Celestial Reference Frame for the outer planets and many of their satellites in 1995–1999*. *Astron. Jour.* **119**, 1985–1998.
- STONE, R.C., MONET, D.G., MONET, A.K.B., HARRIS, F.H., ABLES, H.D., DAHN, C.C., CANZIAN, B., GUETTER, H.H., HARRIS, H.C., HENDEN, A.A., LEVINE, S.E., LUGINBUHL, C.B., MUNN, J.A., PIER, J.R., VRBA, F.J., AND WALKER, R.L. (2003) *Upgrades to the Flagstaff Astrometric Scanning Transit Telescope: A Fully Automated Telescope for Astrometry*. *Astron. Jour.* **126**, 2060–2080.
- STORRS, A. AND ENEY, B. (2010) *Synoptic observations of 134340 Pluto from the Hubble Space Telescope*. *Bull. Amer. Astron. Soc.* **42**, 456 (Abstract).

- STOVER, D. (1992) *Pluto's picture*. *Popular Science* **241**, no. 6, 19.
- STOVER, D. (1993) *Quick trip to Pluto*. *Popular Science* **242**, no. 6, 27.
- STOYKO, N. (1930) *Sur l'orbite de l'astre transneptunien découvert à l'observatoire Lowell*. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **190**, 1275–1277.
- STOYKO, N. (1930) *Influence des termes des troisième et quatrième ordres dans l'emploi de la méthode de M.E. Esclangon pour la détermination de l'orbite d'un astre. Application à l'astre transneptunien*. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **190**, 1379–1381.
- STRATTON, J. (2004) "The use of the Aerojet MR-103H Thruster on the New Horizons Mission to Pluto." Paper given at *55th International Astronautical Congress*, Vancouver, BC, IAC paper #04-S.1.09.
- STRAZZULLA, G., CALCAGNO, L. AND FOTI, G. (1984) *Build up of carbonaceous material by fast protons on Pluto and Triton*. *Astron. Astrophys.* **140**, 441–444.
- STRAZZULLA, G. (1987) *Fast-ion induced chemical evolution in the outer solar system*. *Adv. Spa. Res.* **7**, no. 5, 17–21.
- STRAZZULLA, G., BARATTA, G.A., LETO, G., AND PALUMBO, M.E. (1992) *Application of ion irradiation experiments to planetary surfaces in the outer solar system*. *Earth, Moon, and Planets* **56**, 35–45.
- STRAZZULLA, G. (1997) *Ion irradiation: its relevance to the evolution of complex organics in the outer solar system*. *Life Sciences: Complex Organics in Space* **19**, 1077–1084.
- STREET, R.A. AND BACHELET, E. (2019) *Studying microlensing events from New Horizons*. *Astron. Jour.* **158**, no. 3, 110.
- STREET, R.A. AND BACHELET, E. (2020) *Studying microlensing events from New Horizons*. *Astron. Jour.* **158**, no. 3, 123.
- STRITTMATTER, P.A. (1980) "The Steward Observatory speckle interferometry program." In *Applications of speckle phenomena; Proceedings of the SPIE Seminar (San Diego, CA, July 29–30, 1980)*, 75–79.
- STROBEL, D.F., ZHU, X., SUMMERS, M.E., AND STEVENS, M.H. (1995) *On the vertical thermal structure of Pluto's atmosphere*. *Bull. Amer. Astron. Soc.* **27**, 1101–1102 (Abstract).
- STROBEL, D.F., ZHU, X., AND SUMMERS, M.E. (1995) *On the vertical thermal structure of Pluto's atmosphere*. *Icarus* **120**, 266–289.
- STROBEL, D.F. (2003) *Photochemistry of the N₂ atmospheres of Titan, Triton, and Pluto*. *AGU Fall Meeting Abstracts* **A12A**, 0067 (Abstract).
- STROBEL, D.F. (2008) *N₂ escape rates from Pluto's atmosphere*. *Icarus* **193**, 612–619.
- STROBEL, D.F. AND ZHU, X. (2016) "Comparative planetary nitrogen atmospheres: Titan, Triton and Pluto." Paper given at *Titan Aeronomy and Climate. Proceedings of the Workshop held 27–29 June, 2016 in Reims, Champagne-Ardenne, France.*, page 5.
- STROBEL, D.F. AND ZHU, X. (2017) *Comparative planetary nitrogen atmospheres: density and thermal structures of Pluto and Triton*. *Icarus* **291**, 55–64.
- STROM, R.G. (1990) *Voyager 2 results at Neptune: Triton and the satellite system*. *Eos* **71**, 890 (Abstract).
- STRÖMBERG, G. AND MAYALL, N.U. (1931) *Observed position of Pluto in 1935*. *Astron. Nachr.* **243**, 15.
- STROOBANT, P. (1930) *Revision of the measure of the image of Pluto on the Uccle plate of 1927 January 27*. *Mon. Not. Roy. Astron. Soc.* **91**, 210.
- STRUBELL, W. (1952) *Existenzmöglichkeit eines transplutonische planeten*. *Die Sterne* **3**, 70–72.
- STRUBELL, W. (1953) ??? *Die Sterne* **29**, 111.
- STRUVE, G. (1931) *Mikrometermessungen des Planeten Pluto*. *Astron. Nachr.* **243**, 257.
- STRYK, T., MOORE, J.M., SPENCER, J.R., OLKIN, C.B., WEAVER, H.A., STERN, S.A. (2019) *2014 MU69 in context. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7019 (Abstract)*.

- SU, Y., BAGENAL, F., MCCOMAS, D.J., ELLIOTT, H.A., AND CRARY, F.J. (2007) Characteristics of low energy ions observed by New Horizon/SWAP during Jupiter's magnetotail flyby. *AGU Fall Meeting Abstracts SM44A*, 03 (Abstract).
- SUÁREZ, J., OCHOA, L., DELGADO, C., AND SAAVEDRA, F. (2021) Geomorphological mapping of Sputnik Planitia and its surroundings, and how it's shaped by Pluto internal and external processes. *Lunar & Planetary Sci.* **52**, 1736 (Abstract).
- SUÁREZ VALENCIA, J., OCHOA GUTIÉRREZ, L.H., DELGADO-CORREAL, C., AND DAZA, F.S. (2022) Geomorphological evidence of the internal geological activity of Sputnik Planitia, and its relationship with the surrounding terrains. *Planetary and Spa. Sci.* **214**, 105433.
- SUGATA, P.T. AND KARGEL, J.S. (2018) Solid-phase equilibria on Pluto's surface. *Mon. Not. Roy. Astron. Soc.* **474**, no. 3, 4254–4263.
- SUGATA, P.T. (2022) Low-pressure and low-temperature phase equilibria applied to Pluto's lower atmosphere. *Mon. Not. Roy. Astron. Soc.* **515**, no. 2, 1690–1698.
- SUGITA, S. AND SCHULTZ, P.H. (1999) Spectroscopic characterization of hypervelocity jetting: comparison with a standard theory. *Jour. Geophys. Res. Planets* **104**, 30825–30845.
- SÜLI, Á. AND ZSIGMOND, Zs. (2009) Detailed survey of the phase space around Nix and Hydra. *Mon. Not. Roy. Astron. Soc.* **398**, 2199–2208.
- SULLIVAN, A.M. AND OWEN, JR., W.M. (2004) Pluto Observations [673 Table Mountain Observatory, Wrightwood]. *Minor Planet Circular* 52163, 4.
- SUMMERS, M.E. AND STROBEL, D.F. (1993) Chemical models of Pluto's atmosphere. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract)*.
- SUMMERS, M.E., STERN, S.A., GLADSTONE, G.R., YOUNG, L.A., OLKIN, C.B., WEAVER, H.A., CHENG, A.F., STROBEL, D.F., ENNICO, K.A., KAMMER, J.A., PARKER, A.H., RETHERFORD, K.D., SCHINDHELM, E., SINGER, K.N., STEFFL, A.J., TSANG, C.C., VERSTEEG, M.H., GREATHOUSE, T.K., LINSKOTT, I.R., TYLER, L.G., WOODS, W.W., HINSON, D.P., PARKER, J.W., RENAUD, J.P., EWELL, M., AND LISSE, C.M. (2015) Photochemistry, ion chemistry, and haze formation in Pluto's atmosphere. *Bull. Amer. Astron. Soc.* **47**, 105.11 (Abstract).
- SUMMERS, M.E., GLADSTONE, G.R., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., STROBEL, D.F., HINSON, D.P., KAMMER, J.A., PARKER, A.H., STEFFL, A.J., LINSKOTT, I.R., PARKER, J.W.M., CHENG, A.F., LISSE, C.M., VERSTEEG, M.H., GREATHOUSE, T.K., RETHERFORD, K.D., WOODS, W.W., SINGER, K.N., TSANG, C.C.C., SCHINDHELM, E., WONG, M.L., YUNG, Y.L., ZHU, X., LAVVAS, P., EWELL, M., JACOBS, A.D., TYLER, G.L., AND NEW HORIZONS SCIENCE TEAM. (2016) The neutral atmospheres of Pluto and Charon. *Lunar & Planetary Sci.* **47**, 2864 (Abstract).
- SUMMERS, M.E., YOUNG, L.A., GLADSTONE, G.R., STROBEL, D.F., AND PERSON, M.J. (2019) The composition of Pluto's atmosphere. *Pluto System After New Horizons, LPI Contribution No. 2133, Larch, MD, 2019 July 14–18, 7077 (Abstract)*.
- SURENDRANATH, S. AND YOUNG, D. (2009) "Orbital modeling of the trans-Neptunian dwarf planets using Celestia." Paper given at American Physical Society, 2009 Spring Meeting of the Texas Sections of the APS, AAPT, and SPS, April 02-04, 2009, abstract C1.010.
- SUSSENBACH, J.S. (1989) Op jacht naar Pluto. *Zenit* **16**, no. 10, 351–356.
- SUSSMAN, G.J. AND WISDOM, J. (1988) Numerical evidence that the motion of Pluto is chaotic. *Science* **241**, 433–437.
- SUSSMAN, G.J. AND WISDOM, J. (1992) Chaotic evolution of the solar system. *Science* **257**, 56–62.
- SUTHERLAND, A.P. AND KRATTER, K.M. (2019) Instabilities in multiplanet circumbinary systems. *Mon. Not. Roy. Astron. Soc.* **487**, no. 3, 3288–3304.
- SUTPHIN, C. (1993) Eye on Pluto. *Space World Y-3-291*, (March 1988) 29.

- SVITEK, T., LINDBERG, R., MURRAY, B., DANIELSON, G.E., AND MUHLEMAN, D. (1993) *A low-cost, near-term Pluto–Charon flyby mission*. *ISSN* ???, 1395–1410.
- SWACZYNA, P., MCCOMAS, D.J., AND ZIRNSTEIN, E.J. (2019) *He⁺ ions comoving with the solar wind in the outer heliosphere*. *Astrophys. Jour.* **875**, no. 1, 36.
- SWACZYNA, P., MCCOMAS, D.J., ZIRNSTEIN, E.J.; SOKÓŁ, J.M., ELLIOTT, H.A., BZOWSKI, M., KUBIAK, M.A., RICHARDSON, J.D., KOWALSKA-LESZCZYNSKA, I., STERN, S.A., WEAVER, H.A., OLKIN, C.B., SINGER, K.N., AND SPENCER, J.R. (2020) *Density of neutral hydrogen in the Sun’s interstellar neighborhood*. *Astrophys. Jour.* **903**, no. 1, 48.
- SYBERT, C.B., BOSH, A.S., SAUTER, L.M., ELLIOT, J.L., AND WASSERMAN, L.H. (1992) *Magnitudes of selected stellar occultation candidates for Pluto and other planets, with new predictions for Mars and Jupiter*. *Astron. Jour.* **103**, 1395–1398.
- SYBERT, C.B., ELLIOT, J.L., AND WASSERMAN, L.H., KLEMOLA, A.R., AND MORRISON, L. (1992) *No occultation by Pluto on 1992 May 21*. *IAU Circular No. 5500*, 1.
- SYKES, M.W., CUTRI, R.M., AND BINZEL, R.P. (1987) *IRAS Serendipitous Survey observations of Pluto and Charon*. *Science* **237**, 1336–1340.
- SYKES, M.W. (1987) *Pluto’s identity crisis*. *Discover* **8**, no. 12, 18.
- SYKES, M.V. (1993) *Pluto–Charon thermal emission*. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14 (Abstract)*.
- SYKES, M.V. (1993) *Implications of Pluto–Charon radiometry*. *Bull. Amer. Astron. Soc.* **25**, 1138 (Abstract).
- SYKES, M.W. (1999) *IRAS Survey Mode observations of Pluto–Charon*. *Icarus* **142**, 155–159.
- SYKES, M.V. (2009) *Classifying planets from a geophysical perspective*. *Bull. Amer. Astron. Soc.* **41**, 740 (Abstract).
- SYKES, M.W., CUTRI, R., AND FOWLER, J. (2000) *Pluto*. *IAU Circular No. 7518*.
- SYKES, M.V. (2006) *The Great Planet Debate*. *Planetary Science Institute Newsletter* **7**, no. 3, 1.
- SYKES, M.V. (2008) *The Planet Debate continues*. *Science* **319**, no. 5871, 1765.
- SZALAY, J., PIQUETTE, M., AND HORANYI, M. (2015) *Dust measurements by the Student Dust Counter onboard the New Horizons mission to Pluto*. *Lunar & Planetary Sci.* **46**, 1701 (Abstract).
- SZUROMI, P. (1993) *Pluto—cold and distant*. *Science* **261**, no. 5129, 1657.
- SZUTOWICZ, S. (1988) *Pluto discloses its mysteries*. *Urania* **59**, 162–167.
- TALCOTT, R. (1989) *Get ready for Pluto at its best: this guide contains the finder charts and the best observing times for Pluto’s brightest opposition of the century*. *Astronomy* **17**, no. 5, 84–86.
- TALCOTT, R. (1991) *Hubble opens new vistas*. *Astronomy* **19**, no. 2, 30–37.
- TALCOTT, R. (1991) *Pluto meets the Serpent*. *Astronomy* **19**, no. 5, 77–79.
- TALCOTT, R. (1992) *In pursuit of Pluto*. *Astronomy* **20**, no. 5, 73–76.
- TALCOTT, R. (1996) *Observing to the edge*. *Astronomy* **24**, no. 5, 54.
- TALCOTT, R. (2007) *New Horizons passes Jupiter test*. *Astronomy* **35**, no. 6, 24.
- TAN, S.P., KARGEL, J.S., ADIDHARMA, H., AND MARION, G.M. (2014) *CRYOCHEM, thermodynamic model for cryogenic chemical systems: solid-vapor and solid-liquid-vapor phase equilibria toward applications on Titan and Pluto*. *AGU Fall Meeting Abstracts* **P11A**, 3750 (Abstract).
- TAN, S.P., AND KARGEL, J.S. (2018) *Solid-phase equilibria on Pluto’s surface*. *Mon. Not. Roy. Astron. Soc.* **474**, no. 3, 4253–4263 (Abstract).
- TANCREDI, G. AND FERNÁNDEZ, J.A. (1991) *The angular momentum of the Pluto–Charon system: considerations about its origin*. *Icarus* **93**, 298–315.

- TARNUTZER, A. (1997) *Clyde William Tombaugh (4 February 1906 – 17 January 1997). Zum Andenken. Orione* **55**, 7.
- TARNUTZER, A. (1982) *Die entdeckung des planeten Pluto. Orione* **40**, 182–184.
- TAYLOR, G.E. (1971) *Possible occultation of a star by Pluto. IAU Circular No. 2310.*
- TAYLOR, G.E. (1979) *Possible occultation by Pluto on 1980 April 6. Occultation Newsletter* **2**, 27.
- TAYLOR, G.E. (1978) ??? *Working Group on the Prediction of Occultations by Satellites and Minor Planets (IAU Commission 20), Bull. No. 10.*
- TAYLOR, G.E. (1978) ??? *Working Group on the Prediction of Occultations by Satellites and Minor Planets (IAU Commission 20), Bull. No. 23.*
- TAYLOR, G.E. (1982) *Occultation of 15th magnitude star by Pluto/Charon on 1983 April 24. Working Group on the Prediction of Occultations by Satellites and Minor Planets (IAU Commission 20), Bull. No. 27.*
- TAYLOR, R.L. (1986) *Letter to editor. Planetary Report* **6**, no. 4, 2.
- TAYLOR, R.L.S. (1994) *Deep into that darkness peering. Part 2: origin of the outer solar system. Spaceflight* **36**, no. 7, 241–245.
- TAYLOR, S.R. (1992) “6.14. *Pluto and Charon.*” In *Solar system evolution: a new perspective* (New York, Cambridge University Press), 264–267.
- TAYLOR, S.R. (2006) *The beginning of wisdom: Is Pluto a planet? a historical journey through the solar system, by D.A. Weintraub. (Book review) Nature* **444**, no. 7122, 1006.
- TEDESCO, E.F. (1980) *Photometric properties of Pluto. Icarus [See Las Cruces Conference Abstracts for 1980], in press.*
- TEDESCO, E.F. AND THOLEN, D.J. (1980) *Photometric observations of Pluto in 1980. Bull. Amer. Astron. Soc.* **12**, 729 (Abstract).
- TEDESCO, E.F., THOLEN, D.J., AND ZELLNER, B. (1982) *The Eight-Color Asteroid Survey: standard stars. Astron. Jour.* **87**, 1585–1592.
- TEDESCO, E.F. (1985) *The Pluto–Charon mutual eclipse season campaign. IAPPP Comm.* **22**, 23–24.
- TEDESCO, E.F. (1986) *Asteroid shapes and pole orientations from visual and infrared astronomy. Reports of Planetary Astronomy—1985 NASA Technical Memorandum* **89189**, 129–130 (Abstract).
- TEDESCO, E.F. AND DUNBAR, R.S. (1986) *Modeling Pluto–Charon mutual eclipse lightcurves: first order models and predictions for 1987 events. Bull. Amer. Astron. Soc.* **18**, 820–821 (Abstract).
- TEDESCO, E.F. (1987) *Asteroid shapes and pole orientations from visual and infrared astronomy. Reports of Planetary Astronomy—1986 NASA Technical Memorandum* **100776**, 108 (Abstract).
- TEDESCO, E.F., VEEDER, G.J., DUNBAR, R.S., AND LEBOFISKY, L.A. (1987) *IRAS constraints on the sizes of Pluto and Charon. Nature* **327**, 127–129.
- TEDESCO, E.F. (1988) *Asteroid shapes and pole orientations from visual and infrared astronomy. Reports of Planetary Astronomy—1988 NASA Technical Memorandum* **4063**, 125–126 (Abstract).
- TEDESCO, E.F. (1988) *Visual and infrared studies of asteroids Pluto–Charon mutual events. Reports of Planetary Astronomy—1988 NASA Technical Memorandum* **4063**, 181 (Abstract).
- TEDESCO, E.F. (1989) “*The Pluto campaign.*” Paper given at *Pluto at Perihelion, JPL, Sept. 25.*
- TEDESCO, E.F. (1989) “*Future observational programs.*” Paper given at *Pluto at Perihelion, JPL, Sept. 25.*
- TEDESCO, E.F. (1991) *Visual and infrared studies of asteroids and the Pluto–Charon system. Reports of Planetary Astronomy—1991 NASA Technical Memorandum* **4329**, 121 (Abstract).
- TEGLER, S.C. AND ROMANISHIN, W. (1999) *Kuiper Belt Objects. Bull. Amer. Astron. Soc.* **31**, 1110 (Abstract).

- TEGLER, S.C., CORNELISON, D.M., GRUNDY, W.M., ROMANISHIN, W., ABERNATHY, M.R., BOVYN, M.J., BURT, J.A., EVANS, D.E., MALESZEWSKI, C.K., THOMPSON, Z., AND VILAS, F. (2010) *Methane and nitrogen abundances on Eris and Pluto*. *Bull. Amer. Astron. Soc.* **425**, 984 (Abstract).
- TEGLER, S.C., CORNELISON, D.M., GRUNDY, W.M., ROMANISHIN, W., ABERNATHY, M.R., BOVYN, M.J., BURT, J.A., EVANS, D.E., MALESZEWSKI, C.K., THOMPSON, Z., AND VILAS, F. (2010) *Methane and nitrogen abundances on Pluto and Eris*. *Astron. Jour.* **725**, 1296–1305.
- TEGLER, S.C., CORNELISON, D.M., GRUNDY, W.M., ROMANISHIN, W., ABERNATHY, M.R., BOVYN, M.J., BURT, J.A., EVANS, D.E., MALESZEWSKI, C.K., THOMPSON, Z., AND VILAS, F. (2010) *Methane and Nitrogen Abundances on Pluto and Eris*. *Astron. Jour.* **725**, 1296–1305.
- TEGLER, S.C., GRUNDY, W.M., OLKIN, C.B., YOUNG, L.A., ROMANISHIN, W., CORNELISON, D.M., AND KHODADADKOUCHAKI, R. (2012) *Ice mineralogy across and into the surfaces of Pluto, Triton, and Eris*. *Astrophys. Jour.* **751**, 76–85.
- TEGLER, S.C., STUFFLEBEAM, T., GRUNDY, W., HANLEY, J., LINDBERG, G.E., DUSTRUD, S., ENGLE, A., DILLINGHAM, T., AND QUIRICO, E. (2018) *A new, unusual, and diagnostic band in near-infrared spectra of laboratory ice samples and Triton*. *Bull. Amer. Astron. Soc.* **50**, 311.05 (Abstract).
- TELFER, M.W., PARTELI, E.J.R., RADEBAUGH, J., BEYER, R.A., BERTRAND, T., FORGET, F., NIMMO, F., GRUNDY, W.M., MOORE, J.M., STERN, S.A., SPENCER, J., LAUER, T.R., EARLE, A.M., BINZEL, R.P., WEAVER, H.A., OLKIN, C.B., YOUNG, L.A., ENNICO, K., RUNYON, K., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING SCIENCE THEME TEAM. (2018) *Dunes on Pluto*. *Science* **360**, no. 6392, 992–997.
- TEL'NYUK-ADAMCHUK, V.V. AND PASECHNIK, S.V. (1989) *Results of astrographic position observations of Pluto*. *Vestn. Kiev Univ., Astron.* **31**, 82–83.
- TEOLIS, B.D., RAUT, U., KAMMER, J.A., HOWETT, C.J.A., RETHERFORD, K.D., AND GLADSTONE, G.R. (2019) *Origin of Charon's red poles: new insights from exospheric modeling and solid methane photolysis*. *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7079 (Abstract).
- TEOLIS, B.D., RAUT, U., KAMMER, J.A., GIMAR, C.J., HOWETT, C.J.A., GLADSTONE, G.R., AND RETHERFORD, K.D. (2022) *Charon's extreme exospheric dynamics and red Spot origins*. *Lunar & Planetary Sci.* **53**, 2806 (Abstract).
- TEOLIS, B., RAUT, U., KAMMER, J.A., GIMAR, C.J., HOWETT, C.J.A., GLADSTONE, G.R., AND RETHERFORD, K.D. (2022) *Extreme exospheric dynamics at Charon: implications for the Red Spot*. *Geophys. Res. Letters* **49**, no. 8, e97580.
- TERRILE, R.J., KLAASEN, K.P., LUNINE, J.I., AND JOHNSON, T.V. (1999) *Outer Planets/Solar Probe Project: Pluto Kuiper Express*. *Lunar & Planetary Sci.* **30**, 1988 (Abstract).
- TERRILE, R.J., JOHNSON, T.V., TSURUTANI, B.T., AND KLAASEN, K.P. (1999) "The Outer Planets/Solar Probe Project: opportunities for bioastronomy." Paper given at *Bioastronomy 99: a new era in bioastronomy*, Sixth Bioastronomy Meeting, Kohala Coast, HI, 2–6 August, 1999.
- TERRILE, R.J. (1999) *Exploration at the edge of the solar system: the Pluto–Kuiper Express mission (Invited)*. 1999 *Bull. Amer. Astron. Soc.*, 311118 (Abstract).
- THIESSENHUSEN, K.U., KRIKOV, A.V., KRÜ GER, AND GRÜ N, E. (2002) *A dust cloud around Pluto and Charon*. *Planetary and Spa. Sci.* **50**, 79–87.
- THIROUIN, A. AND SHEPPARD, S.S. (2018) *The Plutino population: an abundance of contact binaries*. *Astron. Jour.* **155**, no. 6, 248.
- THIROUIN, A. AND SHEPPARD, S.S. (2019) *Light curves and rotational properties of the pristine cold classical Kuiper Belt Objects*. *Astron. Jour.* **157**, no. 6, 228.
- THOLEN, D.J. AND TEDESCO, E.F. (1984) *Photometry of the Pluto/Charon system*. *Bull. Amer. Astron. Soc.* **16**, 923 (Abstract).

- THOLEN, D.J. (1987) *The orbit of Pluto's satellite and new limits on the size and density of Pluto.* *Bull. Amer. Astron. Soc.* **17**, 714.
- THOLEN, D.J. (1985) *Pluto–Charon mutual event predictions for 1986.* *Astron. Jour.* **90**, 2639–2642.
- THOLEN, D.J. (1986) *Pluto.* (See corrigenda, IAU 4173). *IAU Circular No.* 4158, 1.
- THOLEN, D.J., BUIE, M.W., STORRS, A.D., AND LARK, N. (1986) *Improved physical parameters for the Pluto–Charon system.* *Bull. Amer. Astron. Soc.* **18**, 821 (Abstract).
- THOLEN, D.J. (1987) *Pluto.* *IAU Circular No.* 4303, 3.
- THOLEN, D.J. (1987) *The orbit of Pluto's satellite.* *Astron. Jour.* **90**, 2353–2359.
- THOLEN, D.J., BUIE, M.W., AND SWIFT, C.E. (1987) *Circumstances for Pluto–Charon mutual events in 1987.* *Astron. Jour.* **93**, 244–247.
- THOLEN, D.J., BUIE, M.W., BINZEL, R.P., AND FRUEH, M.L. (1987) *Improved orbital and physical parameters for the Pluto–Charon system.* *Science* **237**, 512–514.
- THOLEN, D.J., BUIE, M.W., AND SWIFT, C.E. (1987) *Circumstances for Pluto–Charon mutual events in 1988.* *Astron. Jour.* **94**, 1681–1685.
- THOLEN, D.J. AND BUIE, M.W. (1987) *Pluto and Charon: radii, density, and orbital elements from mutual event photometry through 1987.* *Bull. Amer. Astron. Soc.* **19**, 859–860 (Abstract).
- THOLEN, D.J. AND HUBBARD, W.B. (1988) *No effect of diffraction on Pluto–Charon mutual events.* *Astron. Astrophys.* **204**, L5–7.
- THOLEN, D.J. AND BUIE, M.W. (1988) *Further analysis of Pluto–Charon mutual event observations — 1988.* *Bull. Amer. Astron. Soc.* **20**, 807 (Abstract).
- THOLEN, D.J. AND BUIE, M.W. (1988) *Circumstances for Pluto–Charon mutual events in 1989.* *Astron. Jour.* **96**, 1977–1982.
- THOLEN, D.J. (1989) *Results from five years of Pluto–Charon mutual event observations.* *Eos* **70**, 385 (Abstract).
- THOLEN, D.J. AND BUIE, M.W. (1989) *Further analysis of Pluto–Charon mutual event observations — 1989.* *Bull. Amer. Astron. Soc.* **21**, 981–982 (Abstract).
- THOLEN, D.J. AND BUIE, M.W. (1990) *Further analysis of Pluto–Charon mutual event observations — 1990.* *Bull. Amer. Astron. Soc.* **22**, 1129 (Abstract).
- THOLEN, D.J. (1990) *Studies of Triton and the Pluto–Charon system.* *Reports of Planetary Astronomy—1991 NASA Technical Memorandum 4205*, 135 (Abstract).
- THOLEN, D.J. AND BUIE, M.W. (1991) *How big is Pluto?* *Bull. Amer. Astron. Soc.* **23**, 1216 (Abstract).
- THOLEN, D.J. (1991) *The year 1990 marks end of Pluto–Charon mutual event season.* *Reports of Planetary Astronomy NASA Technical Memorandum 4329*, 181–182 (Abstract).
- THOLEN, D.J. (1991) *Studies of Triton and the Pluto–Charon system.* *Reports of Planetary Astronomy—1991 NASA Technical Memorandum 4329*, 125–126 (Abstract).
- THOLEN, D.J. AND BUIE, M.W. (1993) *Bulk properties of the Pluto–Charon system.* *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- THOLEN, D.J. AND TEDESCO, E.F. (1994) *Pluto's lightcurve: results from four apparitions.* *Icarus* **108**, 200–208.
- THOLEN, D.J., BUIE, M.W., AND WASSERMAN, L.H. (1994) *The orbit of Charon from Hubble Space Telescope imaging.* *Bull. Amer. Astron. Soc.* **26**, 1554 (Abstract).
- THOLEN, D.J. AND BUIE, M.W. (1995) *“The orbit of Charon from Hubble Space Telescope observations.”* *Paper given at IAU Symposium 172, Paris, France 1995 July 3–8.*

- THOLEN, D.J. AND BUIE, M.W. (1995) “Astrochemical laboratory experiments as analogs to Plutonian chemistry: using FTIR spectroscopy to monitor the sublimation of irradiated 1:1:100 CO+H₂O+N₂ and 1:1:100 CH₄+H₂O+N₂ ices.” Paper given at 72nd International Symposium on Molecular Spectroscopy, University of Illinois at Urbana-Champaign. 2017 June 19–23.
- THOLEN, D.J. AND BUIE, M.W. (1996) The orbit of Charon. I. new Hubble Space Telescope observations. *Icarus* **125**, 245–260.
- THOLEN, D.J. AND STERN, S.A., EDS. (1997) *Pluto and Charon*. (U. Arizona Press, Tucson), 728 pp.
- THOLEN, D.J. (1996) Exploring Charon’s eccentric orbit. *Bull. Amer. Astron. Soc.* **28**, 1080 (Abstract).
- THOLEN, D.J. (1999) Recent work on Charon’s orbital eccentricity. *Pluto and Triton: comparisons and evolution over time*, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24 (Abstract).
- THOLEN, D.J. CLOSE, L.M., OWEN, T.C., CONNELLEY, M., RODDIER, C., RODDIER, F., GRAVES, J.E., AND NORTHCUTT, M.J. (2000) Adaptive optics observations of the Pluto–Charon system. *SPIE* **4007**, 787–795.
- THOLEN, D.J. (2002) Adaptive optics imaging of the Pluto–Charon system. *Bull. Amer. Astron. Soc.* **34**, 878 (Abstract).
- THOLEN, D.J. (2006) The ferryman casts his shadow. *Nature* **439**, 24–25.
- THOLEN, D.J., BUIE, M.W., AND GRUNDY, W. (2007) Masses of Nix and Hydra. *Bull. Amer. Astron. Soc.* **39**, 519 (Abstract).
- THOLEN, D.J., BUIE, M.W., AND GRUNDY, W. (2007) Dynamical state of the Pluto system. *Bull. Amer. Astron. Soc.* **39**, 542 (Abstract).
- THOLEN, D.J., BUIE, M.W., AND GRUNDY, W. (2008) Dynamical state of the Pluto system. *Asteroids, Comets, and Meteorites* **2008**, 8226 (Abstract).
- THOLEN, D.J., BUIE, M.W., GRUNDY, W.M., AND ELLIOT, G.T. (2008) Masses of Nix and Hydra. *Astron. Jour.* **135**, 777–784.
- THOLEN, D.J. (2014) The size of Pluto. *Bull. Amer. Astron. Soc.* **46**, 404.01 (Abstract).
- THOLEN, D.J., BUIE, M.W., AND GRUNDY, W.M. (2010) Improved masses of Nix and Hydra. *Bull. Amer. Astron. Soc.* **42**, 984. (Abstract).
- THOLEN, D.J., BUIE, M.W., AND GRUNDY, W.M. (2012) Masses in the Pluto system. *Asteroids, Comets, and Meteorites* **2012**, 6327 (Abstract).
- THOMAS, P.C. (1991) Planetary geodesy. *Rev. of Geophys. Supp.* **29**, 182–187.
- THOMAS, S.J., PALUSZIK, M., AND COHEN, S. (2017) “Fusion-enabled Pluto orbiter and lander.” Paper given at AIAA Space Forum, Orlando, FL, 13 September 2017.
- THOMASON, C.J. AND NIMMO, F. (2015) Determination of Pluto’s Radius During the New Horizons encounter. *Lunar & Planetary Sci.* **46**, 1462 (Abstract).
- THOMAS-OSIP, J.E., ELLIOT, J.L., AND CLANCY, K.B. (2002) Re-examination of the possibility of haze in Pluto’s atmosphere based on multi-wavelength observations of the Pluto occultation of P131.1. *Bull. Amer. Astron. Soc.* **34**, 1212 (Abstract).
- THOMSEN, B. AND ABLES, H.D. (1978) Measurement of the angular separation and magnitude difference for the Pluto/Charon system. *Bull. Amer. Astron. Soc.* **10**, 586 (Abstract).
- THOMSEN, D.E. (1971) The shrinking mass of Pluto. *Sci. News* **100**, 154–155.
- THOMPSON, G.L., HANLEY, J., GRUNDY, W., TEGLER, S., ROE, H.G., LINDBERG, G.E., AND TRILLING, D.E. (2016) Low temperature eutectic methane-ethane liquid: a potential geologic fluid in the outermost solar system. *Bull. Amer. Astron. Soc.* **48**, no. 7, 146–147 (Abstract).
- THROOP, H.B., STERN, S.A., PARKER, J.W., GLADSTONE, G.R., AND WEAVER, H.A. (2009) Introducing GV : The Spacecraft Geometry Visualizer. *Bull. Amer. Astron. Soc.* **41**, 68.20.

- THROOP, H.B., FRENCH, R.G., SHOEMAKER, K., RUHLAND, C.R., YOUNG, L.A., AND OLKIN, C.B. (2011) *Limits on Pluto's ring system from the June 12 2006 stellar occultation*. *EPSC Abstracts* **6**, 1640 (Abstract).
- THROOP, H.B., GULBIS, A., GRUNDY, W., YOUNG, L.A., AND OLKIN, C.B. (2014) *New rotationally resolved spectra of Pluto–Charon from 350 – 900 nm*. *Bull. Amer. Astron. Soc.* **46**, 419.05.
- THROOP, H.B., FRENCH, R.G., SHOEMAKER, K., OLKIN, C.B., RUHLAND, T.R., AND YOUNG, L.A. (2015) *Limits on Pluto's ring system from the June 12 2006 stellar occultation and implications for the New Horizons impact hazard*. *Icarus* **246**, 345–351.
- THROOP, H.B., GRUNDY, W., OLKIN, C.B., YOUNG, L.A., AND SICKAFOOSE, A.A. (2015) *New rotationally resolved spectra of Pluto-Charon from 350 – 900 nm*. *Bull. Amer. Astron. Soc.* **47**, 210.09 (Abstract).
- THROOP, H.B., SPENCER, J., ROBBINS, S.J., TSANG, C., CRUIKSHANK, D., STERN, S.A., WEAVER, H., BEDINI, P., AND CALLOWAY, A. (2015) *Photos from inside Pluto: historic images from the New Horizons encounter with Pluto*. *Bull. Amer. Astron. Soc.* **47**, 210.35 (Abstract).
- THROOP, H.B., LAUER, T.R., SHOWALTER, M.R., WEAVER, H.A., STERN, S.A., SPENCER, J.R., BUIE, M.W., HAMILTON, D.P., PORTER, S.B., VERBISCHER, A.J., YOUNG, L., OLKIN, C., AND ENNICO, K. (2017) *Observational limits for rings and debris at Pluto from New Horizons*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 215.04 (Abstract).
- THROOP, H., WEAVER, H., SPENCER, J., OLKIN, C., AND STERN, S.A. (2019) *MU69's hidden side: photography of the Team during the New Horizons flyby*. *ESPC–DPS Joint Meeting* **13**, 1129T (Abstract).
- THROOP, H., LAUER, T., SPENCER, J., SHOWALTER, M., BUIE, M., PORTER, S., GRUNDY, W., WEAVER, H., STERN, S.A., HAMILTON, D., KAUFMANN, D., VERBISCHER, A., ZANGARI, A., OLKIN, C., AND PARKER, J. (2019) *Limits on rings and debris around 201 MU69 from New Horizons*. *ESPC–DPS Joint Meeting* **13**, 1196T (Abstract).
- TIAN, F., TOON, O.B., AND DESTERCK, H. (2004) *Hydrodynamic escape on Pluto: relationship between escape rates and temperature*. *Bull. Amer. Astron. Soc.* **36**, 1109 (Abstract).
- TIAN, F., AND TOON, O.B. (2005) *Three-dimensional multi-fluid simulations of Pluto's magnetosphere: a comparison to 3D hybrid simulations*. *Jour. Geophys. Res.Lett.* **32**, L18201 (Abstract).
- TILLMAN, N.T. (2021) *Pluto and its neighbors*. *Mercury* **50**, no. 2, 31–36.
- TILLMAN, N.T. (2021) *A wealth of water*. *Mercury* **50**, no. 3, 21–27.
- TILLMAN, N.T. (2022) *Dunes of the solar system*. *Astronomy* **50**, no. 10, 20–27.
- TIRPAK, J. (1995) *New Millennium selection nears*. *Aviation Week & Space Technology* **142**, no. 20, 72–73.
- TISCARENO, M.S. AND MALHOTRA, R. (2009) *Chaotic diffusion of resonant Kuiper Belt Objects*. *Astron. Jour.* **138**, 827–837.
- TODD, D.P. (1880) *Preliminary account of a speculative and practical search for a trans-Neptunian planet*. *Amer. Jour. Science* **20**, 225–234.
- TODD, D.P. (1880) *Preliminary account of a speculative and practical search for a trans-Neptunian planet*. *Science* **1**, no. 14, 167–169.
- TODD, D.P. (1886) *Telescopic search for the trans-Neptunian planet*. *Proc. Amer. Acad. Arts & Sci.* **21**, 228–243.
- TODD, D.P. (1886) *Telescopic search for the trans-Neptunian planet*. *Astron. Nachr.* **113**, 153–166.
- TODOROVIC-JUCHNIEWICZ, B. (1984) *Charon–satellite of Pluto*. *Phys. Abstr.* **88**, #78143 (Abstract).
- TODOROVIC-JUCHNIEWICZ, B. (1984) *Charon–satellite of Pluto*. *Postepy Astronomii* **32**, 17–28.
- TODOROVIC-JUCHNIEWICZ, B. (1985) *The influence of subtle dynamical effects on the motion of comets and minor planets*. *Postepy Astronomii* **33**, 153–155.

- TOIGO, A.D., GIERASCH, P.J., SICARDY, B., AND LELLOUCH, E. (2009) *Thermal tides on Pluto*. *Bull. Amer. Astron. Soc.* **41**, 47.03 (Abstract).
- TOIGO, A.D., GIERASCH, P.J., SICARDY, B., AND LELLOUCH, E. (2010) *Thermal tides on Pluto*. *Icarus* **208**, 402–411.
- TOIGO, A.D., FRENCH, R.G., AND GIERASCH, P.J. (2012) *PlutoWRF: a new general circulation model for Pluto’s atmosphere*. *AGU Fall Meeting Abstracts 2012 P13B*, 1942 (Abstract).
- TOIGO, A.D., FRENCH, R.G., GIERASCH, P.J., RICHARDSON, M.I., AND GUZEWICH, S.D. (2014) *Simulating Pluto’s atmosphere with a unified multiple modeling framework*. *AGU Fall Meeting Abstracts P33B*, 4035 (Abstract).
- TOIGO, A.D., FRENCH, R.G., GIERASCH, P.J., AND GUZEWICH, S.D. (2013) *Pluto’s atmosphere and surface ices as simulated by the PlutoWRF GCM*. *AGU Fall Meeting Abstracts P21B*, 1735 (Abstract).
- TOIGO, A.D., FRENCH, R.G., GIERASCH, P.J., GUZEWICH, S.D., ZHU, X., AND RICHARDSON, M.I. (2015) *General circulation models of the dynamics of Pluto’s volatile transport on the eve of the New Horizons encounter*. *Icarus* **254**, 306–323.
- TOMANOV, V.P. AND KUZMIN, S.V. (1989) *An argument in favor of the existence of a transplutonian planet*. *Astron. Tsirk.* **1540**, 25.
- TOMBAUGH, C.W. (1930) *The Sun’s new trans-Neptunian planet*. *Sci. NewsLetter* **17**, 179.
- TOMBAUGH, C.W. (1946) *The search for the ninth planet, Pluto*. *ASP Leaflet 209*, 73–80.
- TOMBAUGH, C.W. (1960) *Reminiscences of the discovery of Pluto*. *Sky and Tel.* **19**, 264–270.
- TOMBAUGH, C.W. (1960) “*The discovery of Pluto.*” In *Source Book in Astronomy, 1900–1950*, ed. H. Shapley (Harvard Univ. Press, Cambridge, MA), pp. 69–74.
- TOMBAUGH, C.W. (1961) “*The trans-Neptunian planet search.*” In *Planets and Satellites*, ed. G.P. Kuiper and B.M. Middlehurst (Univ. of Chicago Press, Chicago), pp. 12–30.
- TOMBAUGH, C.W. (1979) *The search for the ninth planet, Pluto*. *Mercury* **8**, 4–6.
- TOMBAUGH, C.W. (1980) *Op zoek naar Pluto*. *Zenit* **7e**, 46–49.
- TOMBAUGH, C. (1994) “*The struggle to find the Ninth Planet.*” Paper given at *Completing the inventory of the solar system*, Flagstaff, AZ, 27–29 June 1994.
- TOMBAUGH, C. AND MOORE, P. (1980) *Out of the darkness: the planet Pluto* (Stackpole Books, Harrisburg, PA), 221 pp.
- TOMBAUGH, C.W. (1980) *Some early vexing optical and mechanical problems of the 13-inch “Pluto” telescope*. *Icarus* **44**, 2–6.
- TOMBAUGH, C. (1980) *Fifty years with the planet Pluto*. *Jour. International Planetarium Society* **9**, no. 3, 6–9.
- TOMBAUGH, C.W. (1981) *La recherche d’une planète Pluton à l’observatoire de Meudon en 1930*. *Astronomie* **95**, 546–547.
- TOMBAUGH, C.W. (1986) *The discovery of Pluto: Some generally unknown aspects of the story, Part I*. *Mercury* **15**, 66–72.
- TOMBAUGH, C.W. (1986) *The discovery of Pluto: Some generally unknown aspects of the story, Part II*. *Mercury* **15**, 98–102.
- TOMBAUGH, C.W. (1986) *The discovery of Pluto* (Elsevier), 12 pp.
- TOMBAUGH, C.W. (1986) “*The predictions and discovery of the ninth planet, and the extensive planet search.*” In *Chapter 10 of, Dark companions of stars: astrometric commentary on the lower end of the main sequence*. *Spa. Sci. Rev.* **43**, 281–287.
- TOMBAUGH, C.W. (1989) “*The discovery of Pluto.*” Paper given at *Pluto at Perihelion*, JPL, Sept. 25.
- TOMBAUGH, C.W. (1991) *Plates, Pluto, and Planets X*. *Sky and Tel.* **81**, 360–361.

- TOMBAUGH, C.W. (1994) *Pluto: the final word*. *Sky and Tel.* **88**, 8–9 (Letter to editor).
- TOMBAUGH, C.W. (1996) *Struggles to find the ninth planet*. *A.S.P. Conference Series* **107**, 157–162.
- TORBETT, M.V. (1989) *Chaotic motion in a comet disk beyond Neptune: the delivery of short-period comets*. *Astron. Jour.* **98**, 1477–1481.
- TOTH, I. (1999) *On the detectability of satellites of small bodies orbiting the Sun in the inner region of the Edgeworth-Kuiper belt*. *Icarus* **141**, 420–425.
- TOUCHET, E. (1901) *Planètes*. *L’Astronomie* **15**, 301.
- TOUCHET, E. (1901) *Planètes*. *L’Astronomie* **15**, 472.
- TOUCHET, E. (1900) *Communications diverses*. *L’Astronomie* **14**, 472.
- TOUCHET, E. (1902) *Communications écrites*. *L’Astronomie* **16**, 62.
- TOUCHET, E. (1902) *Communications verbales*. *L’Astronomie* **16**, 269.
- TOUCHET, E. (1902) *Lune; planètes*. *L’Astronomie* **16**, 549.
- TOUCHET, E. (1907) *Planètes*. *L’Astronomie* **21**, 122.
- TOUCHET, E. (1909) *Planètes, satellites, conjonctions*. *L’Astronomie* **23**, 477.
- TOUCHET, E. (1910) *Planètes*. *L’Astronomie* **24**, 174.
- TOUCHET, E. (1911) *Lunes; planètes*. *L’Astronomie* **25**, 276–277.
- TOUCHET, E. (1926) *Communications verbales*. *L’Astronomie* **40**, 507.
- TOUNCHEV, I. (2022) *On the dynamics of Pluto*. *International Conference on Analysis and Applied Mathematics (ICAAM 2022)AIP Conf. Proceedings* **3085**, 020025-1-020025-6.
- TOURNIER, J.M., EL-GENK, M.S., HUANG, L., AND SCHULLER, M. (1997) “Performance analysis of a multitube vapor-anode AMTEC cell.” Paper given at *32nd Intersociety Energy Conversion Engineering Conference, 27 July–01 August 1997, Honolulu, HI, Vol. 2, 1172–1179*.
- TOURNIER, J.M. AND EL-GENK, M.S. (1999) *A thermal model of the conical evaporator in Pluto/Express, multi-tube AMTEC cells*. *Space technology and applications international forum — 1999. AIP Conference Proceedings* **458**, 1526–1533.
- TOURNIER, J.M.P. AND EL-GENK, M.S. (1999) *Radiation heat transfer in multitube, alkali-metal thermal-to-electric converter*. *Jour. of Heat Transfer* **121**, no. 1, 239–245.
- TOURNIER, J.M. AND EL-GENK, M.S. (1999) *Performance analysis of Pluto/Express, multitube AMTEC cells*. *Energy Conversion and Management* **40**, 1113–1128.
- TOURNIER, J.M. AND EL-GENK, M.S. (1999) *Analysis of test results of a ground demonstration of a Pluto Express power generator*. *Energy Conversion and Management* **40**, 139–173.
- TRAFTON, L.M. (1977) “Recent observational studies of the outer planets.” In *Proceedings of the 19th Symposium on Planetary Atmospheres, August 16–19, 1977 (Ottawa)*, 111–116.
- TRAFTON, L. M. (1979) *Pluto’s atmosphere—reconciliation of the detection of gaseous methane with Pluto’s small mass*. *Bull. Amer. Astron. Soc.* **11**, 570 (Abstract).
- TRAFTON, L. (1980) *Does Pluto have a substantial atmosphere?* *Icarus* **44**, 53–61.
- TRAFTON, L. (1981) *The atmospheres of outer planets and satellites*. *Rev. Geophys. Spa. Phys.* **19**, 43–89.
- TRAFTON, L. (1981) *Pluto’s atmospheric bulk near perihelion*. *Adv. Spa. Res.* **1**, 93–97.
- TRAFTON, L. (1982) “Comments on Pluto’s atmosphere.” In *Vibrational-rotational spectroscopy for planetary atmospheres—Vol. II.*, ed. M.J. Mumma, K. Fox, and J. Hornstein (NASA CP-2223, April, 1982), pp. 709–715.
- TRAFTON, L. AND STERN, S.A. (1982) *The global distribution of Pluto’s atmosphere*. *Bull. Amer. Astron. Soc.* **14**, 766 (Abstract).

- TRAFTON, L. AND STERN, S.A. (1983) *On the global distribution of Pluto's atmosphere.* *Astrophys. Jour.* **267**, 872–881.
- TRAFTON, L. (1984) *Large seasonal variations in Triton's atmosphere.* *Icarus* **58**, 312–324.
- TRAFTON, L., STERN, S.A., AND GLADSTONE, G.R. (1987) *The Pluto–Charon system: escape of Charon's primordial atmosphere.* *Icarus* **74**, 108–120.
- TRAFTON, L.M., WHIPPLE, A.L., AND STERN, S.A. (1987) *The extended atmosphere of the Pluto–Charon system.* *Bull. Amer. Astron. Soc.* **19**, 1071–1072 (Abstract).
- TRAFTON, L. (1987) *Is methane the dominant gas of Pluto's atmosphere?* *Bull. Amer. Astron. Soc.* **19**, 858 (Abstract).
- TRAFTON, L. (1990) *Pluto's post-perihelion behavior.* *Reports of Planetary Astronomy—1990 NASA Technical Memorandum 4205*, 177 (Abstract).
- TRAFTON, L. (1990) *A two-component volatile atmosphere for Pluto. I. the bulk hydrodynamic escape regime.* *Astrophys. Jour.* **359**, 512–523.
- TRAFTON, L.A. AND STERN, S.A. (1993) *HST ultraviolet studies of Pluto and Charon: early spectroscopic results.* *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- TRAFTON, L.A., HUNTEN, D.M., MCNUTT, JR., R., AND ZAHNLE, K.J. (1993) *Escape processes at Pluto and Charon.* *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- TRAFTON, L. (1989) *Pluto's atmosphere near perihelion.* *Eos* **70**, 381 (Abstract).
- TRAFTON, L.A. (1989) *Pluto's atmosphere near perihelion.* *Geophys. Res. Letters* **16**, 1213–1216.
- TRAFTON, L.A. AND STERN, S.A. (1994) *HST spectroscopy of Pluto, Triton, and Charon: a progress report.* *Eos* **75**, 216 (Abstract).
- TRAFTON, L.M. AND STERN, S.A. (1994) *HST observations of Pluto's UV light curve and Charon's UV spectrum.* *Bull. Amer. Astron. Soc.* **26**, 1169 (Abstract).
- TRAFTON, L.M. AND STERN, S.A. (1996) *Rotationally resolved spectral studies of Pluto from 2500 to 4800 Å obtained with HST.* *Astron. Jour.* **112**, 1212–1224.
- TRAFTON, L.M. AND STERN, S.A. (1996) *Results of analysis of HST spectra of Pluto (1200–4800 Å) and Charon (2250–3300 Å).* *Bull. Amer. Astron. Soc.* **28**, 1080–1081 (Abstract).
- TRAFTON, L.M., MATSON, D.L., AND STANSBERRY, J.A. (1998) *“Surface/atmosphere interactions and volatile transport.”* In *Solar system ices* (Dordrecht, Kluwer), 773.
- TRAFTON, L.M., MATSON, D.L., AND STANSBERRY, J.A. (1998) *Surface/atmosphere interactions and volatile transport (Triton, Pluto, Io).* *Astrophys. and Spa. Sci. Library* **227**, 773–812.
- TRAFTON, L.M. (1999) *On the phases of N₂ and CH₄ ice on Pluto vs. Triton.* *Pluto and Triton: comparisons and evolution over time, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24* (Abstract).
- TRAFTON, L.M. (2013) *Interpreting the shifted CH₄ spectra of Pluto and Triton.* *Bull. Amer. Astron. Soc.* **45**, 303.02 (Abstract).
- TRAFTON, L.M. (2015) *On the state of methane and nitrogen ice on Pluto and Triton: implications of the binary phase diagram.* *Icarus* **246**, 197–205.
- TRAFTON, L.M. AND STANSBERRY, J.A. (2015) *On the departure from isothermality of Pluto's volatile ice due to local insolation and topography.* *Bull. Amer. Astron. Soc.* **47**, 210.02 (Abstract).
- TRAFTON, L.M., TAN, S., AND STANSBERRY, J.A. (2019) *On the equilibrium state of Pluto's surface ice.* *Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18*, 7070 (Abstract).
- TREFIL, J. (1991) *The astronomer who discovered Pluto in 1930 still keeps an eye on the sky from his backyard in New Mexico.* *Smithsonian* **22**, no. 2, 32–34.

- TRELA, M.D. AND FRETZ, K.A. (2010) “Principles for developing interplanetary spacecraft fault management systems.” Paper given at *AIAA Space 2009 Conference*, Pasadena, CA, AIAA paper #2009-6762.
- TREMAINE, S. (1991) *On the origin of the obliquities of the outer planets*. *Icarus* **89**, 85–92.
- TRILLING, D.E. (2016) *The surface age of Sputnik Planum, Pluto, must be less than 10 million years*. *PLOS One* **11**, no. 1, e0147386.
- TRIMBLE, V. AND MCFADDEN, L.A. (1997) *Astrophysics in 1996*. *Pub. Astron. Soc. Pacific* **109**, 78–113.
- TRIMBLE, V. AND ASCHWANDEN, M.J. (2000) *Astrophysics in 1999*. *Pub. Astron. Soc. Pacific* **112**, 434–503.
- TRIMBLE, V. AND ASCHWANDEN, M.J. (2001) *Astrophysics in 2000*. *Pub. Astron. Soc. Pacific* **113**, 1025–1114.
- TRIMBLE, V. AND ASCHWANDEN, M.J. (2002) *Astrophysics in 2001*. *Pub. Astron. Soc. Pacific* **114**, 475–528.
- TRIMBLE, V. AND ASCHWANDEN, M.J. (2005) *Astrophysics in 2004*. *Pub. Astron. Soc. Pacific* **117**, 311–394.
- TRIMBLE, V. ASCHWANDEN, M.J., AND HANSEN, C.J. (2006) *Astrophysics in 2005*. *Pub. Astron. Soc. Pacific* **118**, 947–1047.
- TRIPLETT, W. (2000) *Fan mail demands reprieve for delayed US Pluto mission*. *Nature* **407**, 933.
- TROLL, J. AND SCHULZE, R. (2006) *Measurement techniques used to boresight, flight qualify and align the 2.1-meter high gain antenna for NASA’s New Horizons mission to Pluto*. *Journal of the Coordinate Metrology Society* **1**, no. 1 (Summer, 2006), 6–15.
- TROWBRIDGE, A.J., MELOSH, H.J., AND FREED, A.M. (2015) *Vigorous convection underlies Pluto’s surface activity*. *Bull. Amer. Astron. Soc.* **47**, 102.01 (Abstract).
- TROWBRIDGE, A.J., MELOSH, H.J., STECKLOFF, J.K., AND FREED, A.M. (2016) *Vigorous convection as the explanation for Pluto’s polygonal terrain*. *Nature* **534**, no. 7605, 79–81.
- TROWBRIDGE, A.J., MELOSH, H.J., AND FREED, A.M. (2016) *Pluto’s geologic activity and a universal criterion for planetary vigor*. *Lunar & Planetary Sci.* **47**, 2431 (Abstract).
- TRUJILLO, C. AND JEWITT, D. (1998) *A semiautomated sky survey for slow-moving objects suitable for a Pluto Express mission encounter*. *Astron. Jour.* **115**, 1680–1687.
- TRUJILLO, C. (2003) *Discovering the edge of the solar system: recent discoveries suggest that planets larger than Pluto may exist in the outer reaches of our solar system*. *American Scientist* **91**, no. 5, 424–431.
- TRYKA, K.A., BROWN, R.H., CRUIKSHANK, D.P., OWEN, T.C., DEBERGH, C., AND GEBALLE, T.R. (1993) *Determination of the temperature of nitrogen on Pluto from spectral measurements*. *Bull. Amer. Astron. Soc.* **25**, 1129 (Abstract).
- TRYKA, K.A., BROWN, R.H., CRUIKSHANK, D.P., AND OWEN, T.C. (1993) *The temperature of nitrogen on Pluto*. *Lunar & Planetary Sci.* **25**, 1419–1420 (Abstract).
- TRYKA, K.A., BROWN, R.H., ANICICH, V., CRUIKSHANK, D.P., AND OWEN, T.C. (1993) *Spectroscopic determination of the phase composition and temperature of nitrogen ice on Triton*. *Science* **261**, 751–754.
- TRYKA, K.A., BROWN, R.H., CRUIKSHANK, D.P., OWEN, T.C., GEBALLE, T.R., AND DEBERGH, C. (1994) *Temperature of nitrogen ice on Pluto and its implications for flux measurements*. *Icarus* **112**, 513–527.
- TRYKA, K.A. (1995) *Nitrogen on Triton and Pluto*. Ph. D. dissertation, California Institute of Technology, Pasadena, CA.
- TSANG, C., RATHBUN, J.A., AND SPENCER, J.R. (2012) *New Horizons-LEISA observations of Io’s hotspots during the 2007 encounter*. *Bull. Amer. Astron. Soc.* **44**, 301.04 (Abstract).

- TSUI, K.H. (1999) Satellite capture by scattering of an existing massive planetary satellite. *Planetary and Spa. Sci.* **47**, no. 6-7, 917–920.
- TSUI, K.H. (2003) Formation of Kuiper Belt binaries by recoil. *Bull. Soc. Astron. Brasileira* **23**, no. 1, 244–245.
- TUBIANA, C., DUFFARD, R., BARRERA, L., AND BOEHNHARDT, H. (2007) Photometric and spectroscopic observations of (132524) 2002 JF₅₆: fly-by target of the New Horizons mission. *EPSC Abstracts* **2**, 682 (Abstract).
- TUBIANA, C., DUFFARD, R., BARRERA, L., AND BOEHNHARDT, H. (2007) Photometric and spectroscopic observations of (132524) 2002 JF₅₆: fly-by target of the New Horizons mission. *Astron. Astrophys.* **463**, 1197–1199.
- TUCKER, O.J., ERWIN, J.T., CASSIDY, T., AND JOHNSON, R. (2009) Thermally driven atmospheric escape: a combined Monte Carlo/Fluid approach for Pluto’s atmosphere. *Bull. Amer. Astron. Soc.* **41**, 47.02.
- TUCKER, O.J., ERWIN, J.T., DEIGHAN, J.I., VOLKOV, A.N., AND JOHNSON, R.E. (2012) Thermally driven escape from Pluto’s atmosphere: a combined fluid/kinetic model. *Icarus* **217**, 408–415.
- TUCKER, O.J., JOHNSON, R.E., YOUNG, L.A., JIA, X. AND TENISHEV, V. (2014) Gas transfer in the Pluto–Charon system: a Charon atmosphere. *AGU Fall Meeting Abstracts* **P21**, F08 (Abstract).
- TUCKER, O.J., JOHNSON, R.E., AND YOUNG, L.A. (2015) Gas transfer in the Pluto–Charon system: a Charon atmosphere. *Icarus* **246**, 291–297.
- TUCKER, O.J., JOHNSON, R.E., BELL, J., COLLIER, M.R., FARRELL, W.M., GLOCER, A., KILLEN, R.M., AND SAXENA, P. (2019) Limits on X-ray luminosity from Pluto’s H₂ corona. *Pluto System After New Horizons, LPI Contribution No. 2133*, Lauri, MD, 2019 July 14–18, 7080 (Abstract).
- TURNER, H.H. AND MAUNDER, E.W. (1892) Meeting of the Royal Astronomical Society, Friday, 1982 May 13. *The Observatory* **15**, 242–243.
- TURNER, H.H. (1930) Pluto. *The London Times* ???, ??? (28 May 1930) (Letter to Editor).
- TYLER, G.L., LINSKOTT, I.R., CHENG, A., AND ASMAR, S. (1993) Pluto Fast Flyby uplink radio occultation instrument. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- TYLER, G.L., STERN, S.A., AND WEAVER, H.A. (2003) “The New Horizons Mission to Pluto-Charon and the Kuiper Belt.” Paper given at *Recent Progress in Planetary Exploration, 25th meeting of the IAU, Special Session 1, 17–18 July, 2003*, Sydney, Australia.
- TYLER, G.L., STERN, S.A., AND WEAVER, H.A. (2005) The New Horizons Mission to Pluto/Charon and the Kuiper Belt. *Highlights of Astronomy* **13**, 910.
- TYLER, G.L., LINSKOTT, I. R., BIRD, M.K., HINSON, D.P., STROBEL, D.F., PÄTZOLD, M., SUMMERS, M.E., AND SIVARAMAKRISHNAN, K. (2008) The New Horizons Radio Science Experiment (REX). *Spa. Sci. Rev.* **140**, 217–259.
- TYSON, N.D. (1995) Chaos in the solar system. *Natural History* **104**, no. 7, 14–16.
- TYSON, N.D. (1999) Universe: Pluto’s honor. *Natural History* **108**, no. 1, 82–84.
- TYSON, N.D. (1999) The plight of Pluto—reply. *Natural History* **108**, no. 4, 8.
- TYSON, P. (2016) Pluto’s amazing story. *Sky and Tel.* **132**, no. 4, 4.
- TYTELL, D. (2001) The solar system’s edge? *Sky and Tel.* **102**, no. 3, 26.
- TYTELL, D. AND BEATTY, J.K. (2002) Pluto: mission impossible? *Sky and Tel.* **103**, no. 2, 21.
- TYTELL, D. (2006) The best-ever Pluto picture. *Sky and Tel.* **111**, no. 2, 18.
- TYTELL, D. (2006) Pluto adds two new moons. *Sky and Tel.* **111**, no. 2, 18.
- TYTELL, D. (2006) A colder Pluto. *Sky and Tel.* **111**, no. 4, 18.
- TYTELL, D. (2006) Former “10th Planet” formally named. *Sky and Tel.* **112**, no. 6, 22.

- TYTELL, D. (2006) *Pluto and Charon: ice worlds on the ragged edge of the solar system, second edition.* by S.A. Stern and J. Mitton (Book review.) *Sky and Tel.* **111**, no. 4, 83.
- TYTELL, D. (2007) *It's official: Eris outweighs Pluto.* *Sky and Tel.* **114**, no. 9, 17.
- UGELOW, M., ANDERSON, C., AND NNA MVONDO, D. (2019) *Laboratory studies of amorphous and crystalline cyanoacetylene ices.* *Proceedings of the EGU General Assembly, EGU 2019* **21**, 11414.
- ULRICH, H. (1982) *Speckle-interferometrie an Pluto und Charon.* *Sterne und Weltram* **21**, 449.
- UMURHAN, O.M., MOORE, J.M., MCKINNON, W.B., HOWARD, A.D., NIMMO, F., GRUNDY, W., STERN, S.A., WEAVER, H., OLKIN, C., ENNICO, K., AND YOUNG, L.A. (2015) *Glacial flow on and onto Sputnik Planum.* *Bull. Amer. Astron. Soc.* **47**, 210.11 (Abstract).
- UMURHAN, O.M., HOWARD, A.D., MOORE, J.M., SCHENK, P., BEYER, R.A., WHITE, O.L., BINZEL, R.P., SINGER, K., MCKINNON, W.B., NIMMO, F., STERN, S.A., WEAVER, H., YOUNG, L.A., ENNICO SMITH, K., AND OLKIN, C.B. (2016) *Examining scenarios for glacial flow of volatile ices onto Pluto's Sputnik Planum.* *Lunar & Planetary Sci.* **47**, 2093 (Abstract).
- UMURHAN, O.M., HOWARD, A.D., MOORE, J.M., EARLE, A.M., BINZEL, R.P., STERN, S.A. SCHENK, P.A., BEYER, R.A., WHITE, O.L., NIMMO, F., MCKINNON, W.B., ENNICO, K., OLKIN, C.B., WEAVER, H.A., AND YOUNG, L.A. (2017) *Modeling glacial flow on and onto Pluto's Sputnik Planum.* *Icarus* **287**, 301–319.
- UMURHAN, O., SPENCER, J., MCKINNON, W., WEAVER, H., OLKIN, C., ENNICO, K., YOUNG, L., MOORE, J.M., AND STERN, S.A. (2016) "Peering into distant lands: the geology of Pluto and Charon as revealed by New Horizons." Paper given at 41st COSPAR Scientific Assembly, abstracts from the meeting that was to be held 30 July–07 August at the Istanbul Congress Center (ICC), Turkey, but was cancelled. Abstract B0.4-6-16., .
- UMURHAN, O.M., LYRA, W., WONG, T., MCKINNON, W.B., NIMMO, F., HOWARD, A.D., MOORE, J.M., BINZEL, R., WHITE, O., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L., AND THE NEW HORIZONS GEOLOGY AND GEOPHYSICS SCIENCE TEAM. (2016) *An expanded analysis of nitrogen ice convection in Sputnik Planum.* *Bull. Amer. Astron. Soc.* **48**, no. 7, 107–108 (Abstract).
- UMURHAN, O., HOWARD, A.D., WHITE, O.L., SCHENK, P.M., BEYER, R.A., MCKINNON, W.B., SINGER, K.N., LAUER, T.R., CHENG, A.F., STERN, S.A., WEAVER, H.A., YOUNG, L., ENNICO, K., AND OLKIN, C. (2017) *Pluto's paleoglaciation: processes and bounds.* *Bull. Amer. Astron. Soc.* **49**, no. 5, 102.08 (Abstract).
- UMURHAN, O.M., KEANE, J.T., PORTER, S.B., LINSKOTT, I., GRUNDY, W.M., YOUNG, L.A., BEYER, R.A., BIERSON, C., SPENCER, J.R., STERN, S.A., WEAVER, H.A., OLKIN, C.B., PARKER, J.W., AND VERBISCHER, A.J. (2019) *Near surface temperature modelling of 2014 MU₆₉.* *ESPC–DPS Joint Meeting* **13**, 749U (Abstract).
- UMURHAN, O.M. AND CRUIKSHANK, D.P. (2019) *Cryovolcanism on Pluto: various theoretical considerations.* *Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18*, 7066 (Abstract).
- UMURHAN, O.M., KEANE, J.T., BEYER, R.A., BIRD, M., LINSKOTT, I., PORTER, S.B., SPENCER, J.R., WHITE, O.L., YOUNG, L.A., BIERSON, C.J., HAMILTON, D.P., LISSE, C.M., SHOWALTER, M.W., STANSBERRY, J.A., GRUNDY, W.M., MCKINNON, W.B., MOORE, J.M., STERN, S., PARKER, J.W., OLKIN, C.B., WEAVER, H.A., VERBISCHER, A.J., NEW HORIZONS COMPOSITION (COMP) THEME TEAM, AND NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING SCIENCE THEME TEAM. (2020) *Thermophysical, Gravitational, and Geomorphology Properties of 2014 MU₆₉.* *Bull. Amer. Astron. Soc.* **52**, no. 1, 419.05 (Abstract).
- UMURHAN, O.M., GRUNDY, W.M., BIRD, M.K., VERBISCHER, A.J., WEAVER, H.A., SPENCER, J.R., SINGER, K.N. STERN, S.A., AND PARKER, J.W. (2022) *Arrokoth's New Horizons measured brightness temperature provides consistent evidence for 0.1-1 cm near subsurface grain sizes: possible implications for planetesimal formation models.* *Lunar & Planetary Sci.* **53**, 2748 (Abstract).

- UMURHAN, O.M., GRUNDY, W.M., BIRD, M.K., BEYER, R., KEANE, J.T., LINSKOTT, I.R., BIRCH, S., BIERSON, C., YOUNG, L.A., STERN, S.A., LISSE, C.M., HOWETT, C.J.A., PROTOPAPA, S., SPENCER, J.R., BINZEL, R.P., MCKINNON, W.B., LAUER, T.R., WEAVER, H.A., OLKIN, C.B., SINGER, K.N., VERBISCHER, A.J., AND PARKER, A.H. (2022) *A near-surface temperature model of Arrokoth*. *Planetary Sci. Jour.* **3**, no. 5, 110.
- UMURHAN, O., BIRD, M.K., GRUNDY, W., KEANE, J., LINSKOTT, I., YOUNG, L., BIRCH, S., AND STERN, A. (2022) *A full orbital thermal near surface thermal solution for Arrokoth: possible applications to other bodies across the solar system*. 44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, **B1.2-0001-22**, (Abstract).
- UPGREN, A. (2005) "More than one Pluto?" In *Many skies: alternative histories of the Sun, Moon, Planets, and Stars*. (Rutgers University Press), 103–108.
- URSO, R.G., BAKLOUTI, D., BRUNETTO, R., AND DJOUADI, Z. (2019) *Methanol near-infrared bands as a probe of irradiated ices in space*. *AGU Fall Meeting Abstracts P331*, 3539 (Abstract).
- VAGNER, J., (EDITOR) (1971) *The outer solar system, parts I and II of (Advances in the Astronautical Sciences)*, 29 ??? pp.
- VAISALA, Y. (1950) *Minor planet work at the astronomical observatory of the Turku Observatory*. *Turku Informo* **6**, 12.
- VALENTIAN, D. (2003) "A nuclear electric propulsion module for outer planets exploration." Paper given at 39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference and Exhibit, Huntsville, Alabama, July 20–23, 2003.
- VANDERKERKHOVE, E. (1949) *Observations photographiques de petites plànetes, de comètes et de Pluton*. *Bull. Astronomique de l'Observatoire Royal de Belgique a Uccle* **4**, 14–22.
- VAN BIESBROEK, G. (1930) *Trans-Neptunian Planet (Pluto)*. *Harvard College Observatory Announcement Card* **129**, June 2.
- VAN BIESBROEK, G. (1930) *Pluto*. *Harvard College Observatory Announcement Card* **131**, June 5.
- VAN BIESBROEK, G. (1930) *Observations of asteroids and of Pluto at the Yerkes Observatory*. *Astron. Jour.* **41**, 5.
- VAN BIESBROEK, G. (1930) *Observations of Pluto*. *Astron. Jour.* **44**, 23.
- VAN BIESBROEK, G. (1931) *Observations of Pluto and of the eighth satellite of Jupiter*. *Astron. Jour.* **41**, 116–117.
- VAN BIESBROEK, G. (1932) *Observations of Pluto and of Jupiter's satellite VIII*. *Pub. Astron. Soc. Pacific* **42**, no. 982, 106.
- VAN BIESBROEK, G. (1934) *Observations of Pluto*. *Astron. Jour.* **44**, 23–24.
- VAN BIESBROEK, G. (1936) *Observations of asteroids and of Pluto with the 24-inch reflector of the Yerkes Observatory*. *Astron. Jour.* **45**, 97–99.
- VAN BIESBROEK, G. (1937) *Observations of asteroids and of Pluto.** *Astron. Jour.* **46**, 122–124.
- VAN BIESBROEK, G. (1944) *Observations of Pluto with the 24-inch reflector of the Yerkes Observatory*. *Astron. Jour.* **50**, 182–183.
- VAN BIESBROEK, G. (1944) *Position of Pluto in 1944*. *Pub. Astron. Soc. Pacific* **56**, 89.
- VAN BIESBROEK, G. (1945) *Observations of comets and Pluto with the 24-inch reflector of the Yerkes Observatory*. *Astron. Jour.* **51**, 112–114.
- VAN BIESBROEK, G. (1949) *Positions of Pluto (1950.0) from plates taken with the 24-inch reflector*. *Astron. Jour.* **54**, 94.
- VAN BIESBROEK, G. (1963) *Positions of planet Pluto*. *Astron. Jour.* **68**, 738.
- VAN BIESBROEK, G., VESELY, C.D., MARSDEN, B.G., AND ASKNES, K. (1976) *Observations of comets, minor planets, Pluto, and satellites*. *Astron. Jour.* **81**, 122–124.

- VAN CLEVE, J.E., CRUIKSHANK, D.P., STANSBERRY, J.A., BURGDORF, M.J., DEVOST, D., EMERY, J.P., FAZIO, G., FERNANDEZ, Y.R., GLACCUM, W., GRILLMAIR, C., HOUCK, J.R., MEADOWS, V.S., MORRIS, P., REACH, W., REISTEMA, H., RIEKE, G.H., AND WERNER, M.W. (2004) *Imaging and spectroscopy of outer planets and their satellites with the Spitzer Space Telescope*. *Bull. Amer. Astron. Soc.* **36**, 721 (Abstract).
- VAN DE KAMP, P. (1986) "The planets Neptune and Pluto." In *Dark companions of stars: astrometric commentary on the lower end of the main sequence*. *Spa. Sci. Rev.* **43**, 277–280.
- VANDENABBEEL, F. (2003) *Pluto Observations [231 Vesqueville]*. *Minor Planet Circular* 49767, 1.
- VAN DISHOECK, E.F. (2000) *Astrochemistry: from molecular clouds to planetary systems: IAU Symposium 197*. *Pub. Astron. Soc. Pacific* **112**, 286–287.
- VAN FLANDERN, T.C., KAPLAN, G.H., PULKKINEN, K.F., SANTORO, E.J., AND SEIDELMANN, P.K. (1980) *The renewal of the trans-Neptunian planet search*. *Bull. Amer. Astron. Soc.* **12**, 830 (Abstract).
- VAN FLANDERN, T.C., PULKKINEN, K.F., RIES, J., AND DUNCAN, R.L. (1981) *The period of Charon, derived from the observed barycentric motion of Pluto*. *Bull. Amer. Astron. Soc.* **13**, 573 (Abstract).
- VAN FLANDERN, T. (1982) *Application of a new algebraic manipulation theory*. *Cel. Mech.* **26**, 197 (Abstract).
- VAN FLANDERN, T. AND MCKINNON, W.B. (1991) *Worlds apart*. *Sky and Tel.* **82**, 340–341.
- VANGVICHITH, M., FORGET, F., AND WORDSWORTH, R. (2011) *A 3D model of Pluto's atmosphere*. *EPSC Abstracts* **6**, 1165 (Abstract).
- VAN HEMELRIJK, E. (1982) *An estimate of the solar radiation incident at the top of Pluto's atmosphere*. *Academie Royale de Belgique, Class des Sciences* **68**, no. 10, 675–698.
- VAN HEMELRIJK, E. (1982) *The insolation at Pluto*. *Icarus* **52**, 560–564.
- VAN HEMELRIJK, E. (1985) *Insolation changes on Pluto caused by orbital element variations*. *Earth, Moon, and Planets* **33**, 163–177.
- VANING, W. (1989) *Unique gravity assist missions for the 1990s*. *Adv. in the Astronautical Sci.* **71**, Part II, 1191.
- VANING, W. (1992) *Fire and frost—advanced trajectories to Pluto and interstellar space*. *Adv. in the Astronautical Sci.* **72**, Part II, 1163.
- VANING, W. (1993) *Pluto and Charon's weather*. ???.
- VANING, W.S. (1996) "Stellar occultation mission with high eccentricity Earth orbits." Paper given at *AIAA/AAS Astrodynamics Conference, Reston, VA, July 29–31, 1996*, 130–137.
- VANING, W.S. (1996) "Small space telescope for stellar occultations using repeated lunar gravity assists." Paper given at *AIAA/AAS Astrodynamics Conference, Reston, VA, July 29–31, 1996*, 647–655.
- VANING, W. (2005) *Pluto and Charon occultations during the next decade*. *Occultation Newsletter, International Occultation Timing Association (IOTA)* **12**, no. 4, 4.
- VARADI, F. (1999) *Periodic orbits in the 3:2 orbital resonance and their stability*. *Astron. Jour.* **118**, 2526–2531.
- VASCONCELOS, F.A., PILLING, S., AGNIHOTRI, A., ROTHARD, H., AND BODUCH, P. (2020) *Methylenimine and cyanomethanimine synthesis from ion irradiation of N₂-CH₄ ice: implication on the formation of prebiotic molecules in outer solar system bodies*. *Icarus* **351**, 113944.
- VASHKOV'YAK, S.N., URAL'SKAYA, V.S., NASONOVA, L.P., SEMENOVA, S.L., EMEL'YANOV, N.V., AND CHEPUROVA, V.M. (1991) *Dynamics of the planetary satellites*. *Itogi Nauki i Tekhniki, Seriya Issledovanie Kosmicheskogo Prostranstva* **35**, 1–197.

- VASILE, M. (2003) “Design of low-thrust trajectories for the exploration of the outer solar system.” Paper given at o, 54th International Astronautical Congress of the International Astronautical Federation, the International Academy of Astronautics, and the International Institute of Space Law Bremen, September 29–30, 2003. AIAA paper #IAC-03-A.P.14.
- VASILE, M. AND DEPASCALE, P. (2007) Preliminary design of multiple gravity-assist trajectories. *Jour. Spacecraft and Rockets* **43**, no. 4, 794–805.
- VASSART, F.C. (1910) Douze planètes composant notre système solaire, dont trois ultraneptuniennes. *L’Astronomie* **24**, 174–???
- VASUNDHARA, R. AND BHATTACHARYYA, J.C. (1987) Pluto–Charon mutual event. *Bull. Astron. Soc. India* **15**, 20 (Abstract).
- VAUGHN, J. (2001) Odd planet out: what’s up with Pluto exploration? *Planetary Report* **22**, no. 2, 18–19.
- VEIGA, C.H. (2008) 134340 Pluto: nine years of CCD observations. *Astron. Astrophys.* **486**, 613–615.
- VEILLET, C., PARKER, J.W., GRIFFIN, I., MARSDEN, B., DORESSOUNDIRAM, A., BUIE, M., THOLEN, D.J., CONNELLEY, M., AND HOLMAN, M.J. (2002) The binary Kuiper-belt object 1998 WW31. *Nature* **416**, no. 6882, 711–713.
- VELDMAN, J.S. (2003) Galileo and Pluto. *Planetary Report* **23**, no. 6, 3 (Letter to editor).
- VENETOKLIS, P.S. (1993) Pluto exploration strategies enabled by SNTF technology. AIAA 29th Joint Propulsion Conference **Monterrey, CA**, .
- VENETOKLIS, P.S. (1995) Pluto/Charon exploration utilizing a bi-modal PBR nuclear propulsion/power system. *AIP Conference Proceedings* **324**, 169–174.
- VERBISER, A.J., PETERSON, D.E., SKRUTSKIE, M.F., CUSHING, M., NELSON, M.J., SMITH, J.D., AND WILSON, J.C. (2007) Simultaneous spatially-resolved near-infrared spectra of Pluto and Charon. *Lunar & Planetary Sci.* **38**, 2318 (Abstract).
- VERBISER, A.J., PETERSON, D.E., SKRUTSKIE, M.F., CUSHING, M., NELSON, M.J., SMITH, J.D., AND WILSON, J.C. (2007) “Solid nitrogen and simple hydrocarbons on Charon.” Paper given at *Workshop on Ices, Oceans, and Fire: Satellites of the Outer Solar System, held August 13-15, 2007. Boulder, Colorado, LPI Contribution No. 1357*, 144.
- VERBISER, A.J., BUIE, M.W., BINZEL, R.P., BROZOVIC, M., ENNICO, K., GRUNDY, W.M., JACOBSON, R., OLKIN, C.B., SHOWALTER, M.R., SPENCER, J.R., STERN, S.A., WEAVER, H.A., AND YOUNG, L.A. (2015) New Horizons and Hubble Space Telescope photometry of Nix and Hydra. *Bull. Amer. Astron. Soc.* **47**, 210.03 (Abstract).
- VERBISER, A.J., BUIE, M.W., BINZEL, R., ENNICO, K., GRUNDY, W.M., OLKIN, C.B., SHOWALTER, M.R., SPENCER, J.R., STERN, S.A., WEAVER, H.A., YOUNG, L., AND THE NEW HORIZONS SCIENCE TEAM. (2016) The Pluto system at small phase angles. *Bull. Amer. Astron. Soc.* **48**, no. 7, 106 (Abstract).
- VERBISER, A.J., BUIE, M.W., PORTER, S.B., TAMBLYN, P., TERRELL, D., BENECCHI, S., PARKER, A., SOTO, A., WASSERMAN, L.H., YOUNG, E.F., AND ZANGARI, A.M. (2017) Portable telescopic observations of the 3 June 2017 stellar occultation by New Horizons Kuiper Extended Mission target (486958) 2014 MU69. *Bull. Amer. Astron. Soc.* **49**, no. 5, 504.05 (Abstract).
- VERBISER, A.J., PORTER, S.B., BURATTI, B.J., WEAVER, H.A., SPENCER, J.R., SHOWALTER, M.R., BUIE, M.W., HOFGARTNER, J.D., HICKS, M.D., ENNICO-SMITH, K., OLKIN, C.B., STERN, S.A., YOUNG, L.A., CHENG, A., AND THE NEW HORIZONS TEAM. (Phase curves of Nix and Hydra from the New Horizons Imaging Cameras.) *Astrophys. Jour.Lett.* 852 **no. 2, L35**, .
- VERBISER, A., PORTER, S., BENECCHI, S., KAVELAARS, J.J., WEAVER, H.A., SPENCER, J., BUIE, M.W., BURATTI, B.J., OLKIN, C.B., PARKER, J., STERN, S.A., YOUNG, L.A., AND CHENG, A. (2018) Solar phase curves of distant Kuiper Belt Objects observed by New Horizons’ LORRI. *Bull. Amer. Astron. Soc.* **50**, 509.08 (Abstract).

- VERBISCHER, A.J., SHOWALTER, M.R., BUIE, M.W., AND HELFENSTEIN, P. (2019) *The Pluto system at true opposition. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7050 (Abstract).*
- VERBISCHER, A.J., PORTER, S.B., BENECHCHI, S.D., KAVELAARS, J.J., WEAVER, H.A., SPENCER, J.R., BUIE, M.W., BURATTI, B.J., HELFENSTEIN, P., PARKER, A.H., ZANGARI, A.M., HOFGARTNER, J.D., HOWETT, C.J.A., DALLE ORE, C.M., PROTOPAPA, S., GRUNDY, W., OLKIN, C.B., PARKER, J.W., STERN, S.A., AND NEW HORIZONS GGI TEAM NEW HORIZONS COMPOSITION TEAM. (2019) *New Horizons observations of distant Kuiper Belt Objects: rotational and solar phase curves of (486958) 2014 MU69 and other cold classical KBOs. Lunar & Planetary Sci. 50, 2959 (Abstract).*
- VERBISCHER, A., SHOWALTER, M., HELFENSTEIN, P., AND BUIE, M. (2019) *The Pluto system at true opposition. ESPC–DPS Joint Meeting 13, 1261V (Abstract).*
- VERBISCHER, A.J., PORTER, S., BENECHCHI, S.D., KAVELAARS, J.J., WEAVER, H.A., SPENCER, J.R., BUIE, M.W., THOLEN, D., BURATTI, B.J., HELFENSTEIN, P., PARKER, A.H., OLKIN, C.B., PARKER, J., STERN, S.A., YOUNG, L.A., ENNICO-SMITH, K., SINGER, K.N., CHENG, A.F., LISSE, C.M., AND THE NEW HORIZONS SCIENCE TEAM. (2019) *Phase curves from the Kuiper Belt: photometric properties of distant Kuiper Belt Objects observed by New Horizons. Astron. Jour. 158, no. 3, 123.*
- VERBISCHER, A., PORTER, S., BENECHCHI, S., KAVELAARS, J.J., WEAVER, H.A., JR., SPENCER, J.R., BUIE, M.W., BURATTI, B.J., HELFENSTEIN, P., PARKER, A.H., OLKIN, C., PARKER, J.W., STERN, S.A., YOUNG, L.A., ENNICO SMITH, K., AND SINGER, K.N. (2019) *Photometric properties of dwarf planets and other Kuiper Belt Objects determined from New Horizons. AGU Fall Meeting Abstracts P33I, 3530 (Abstract).*
- VERBISCHER, A.J., PORTER, S., BENECHCHI, S.D., KAVELAARS, J.J., WEAVER, H.A., SPENCER, J.R., BUIE, M.W., THOLEN, D., BURATTI, B.J., HELFENSTEIN, P., PARKER, A.H., OLKIN, C.B., PARKER, J., STERN, S.A., YOUNG, L.A., ENNICO-SMITH, K., SINGER, K.N., CHENG, A.F., LISSE, C.M., AND THE NEW HORIZONS SCIENCE TEAM. (2019) *Phase curves from the Kuiper Belt: photometric properties of distant Kuiper Belt Objects observed by New Horizons. Astron. Jour. 158, no. 3, 123.*
- VERBISCHER, A., PORTER, S., BENECHCHI, S., KAVELAARS, J., WEAVER, H., SPENCER, J., BUIE, M., BURATTI, B., HELFENSTEIN, P., PARKER, A., OLKIN, C., PARKER, J., STERN, S. YOUNG, L., SINGER, K., ENNICO, K., AND NEW HORIZONS SCIENCE TEAM. (2020) *Photometric properties of dwarf planets and other Kuiper Belt Objects observed by New Horizons. Bull. Amer. Astron. Soc. 52, no. 1, 438.07 (Abstract).*
- VERBISCHER, A.J., HELFENSTEIN, P., SHOWALTER, M., AND BUIE, M. (2020) *A tale of two hemispheres: scattering properties of Pluto’s Sputnik Planitia and Cthulhu Macula revealed by near-opposition photometry. Bull. Amer. Astron. Soc. 52, no. 6, 310.04 (Abstract).*
- VERBISCHER, A., PORTER, S., KAVELAARS, J., HELFENSTEIN, P., BENECHCHI, S., WEAVER, H., SPENCER, J., SINGER, K., STERN, S., AND PARKER, J. (2021) *Putting (486958) Arrokoth in context: New Horizons observations of other small cold classical Kuiper Belt Objects. Bull. Amer. Astron. Soc. 53, 111.04 (Abstract).*
- VERBISCHER, A., PORTER, S., KAVELAARS, J., HELFENSTEIN, P., BENECHCHI, S., WEAVER, H., SPENCER, J., SINGER, K., STERN, S., AND PARKER, J. (2021) *Putting (486958) Arrokoth in context: New Horizons observations of other small Cold Classical Kuiper Belt Objects. Bull. Amer. Astron. Soc. 53, 307.01 (Abstract).*
- VERBISCHER, A.J., PORTER, S.B., KAVELAARS, J.J., HELFENSTEIN, P., BENECHCHI, S.D., WEAVER, H.A., SPENCER, J.R., SINGER, K.N., STERN, S.A., PARKER, J.W., AND NEW HORIZONS SCIENCE TEAM. (2022) *Putting (486958) Arrokoth in context: New Horizons photometry of other small cold classical Kuiper Belt Objects. Lunar & Planetary Sci. 53, 2488 (Abstract).*

- VERBISCHER, A.J., HELFENSTEIN, P., PORTER, S.B., BENECCHI, S.D., KAVELAARS, J.J., LAUER, T.L., PENG, J., PROTOPAPA, S., SPENCER, J.R., STERN, S.A., WEAVER, H.A., BUIE, M.W., BURATTI, B.J., OLKIN, C.B., PARKER, J., SINGER, K.N., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2022) *The diverse shapes of dwarf planet and large KBO phase curves observed from New Horizons*. *Planetary Sci. Jour.* **3**, 95.
- VERBISCHER, A., PORTER, S., KAVELAARS, J.J., HELFENSTEIN, P., BENECCHI, S., WEAVER, H., SPENCER, J., SINGER, K., STERN, A., BRANDT, P., AND PARKER, J. (2022) *Putting (486958) Arrokoth in context: New Horizons observations of other Small Cold Classical Kuiper Belt Objects*. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece*, **B1.1-0050-22**, (Abstract).
- VERDENET, M. (2003) *Pluton, comme étoile variable!* *Bulletin de l'Association Française des Observateurs d'Étoiles Variables (ISSN 0153-9949)* **104**, 14–17.
- VÉRONNET, A. (1930) *La planète transneptunienne*. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **191**, 24–26.
- VEVERKA, J. (1980) *Pluto, the unique planet*. *Nature* **286**, 828.
- VEVERKA, J. (1980) *Book Review: The planet Pluto by A.J. Whyte* *Nature* **286**, 826.
- VIATEAU, B., RÉQUIÈME, LE CAMPION, J.F., BENEVIDES-SOARES, P., TEXEIRA, R., MONTIGNAC, G., MAZURIER, J.M., MONTEIRO, W., BOSQ, F., CHAUVET, F., COLIN, J., DAIGNE, G., DESBATS, J.M., DOMINICI, T.P., PÉRIÉ, J.P., RAFFAELLI, J., AND RAPAPORT, M. (1999) *The Bordedeaux and Valinhos CCD meridian circles*. *Astron. Astrophys.Supp.* **134**, 173–186.
- VICKERY, J.D. AND HORSEWOOD, J.L. (1969) *Mission window definition for Jupiter swingbys to the outer planets*. *Jour. Spacecraft and Rockets* **3**, 525–531.
- VIDMACHENKO, A.P. (2016) “Features of surface topography and the geological activity of Pluto.” Paper given at *18 International scientific conference Astronomical School of Young Scientists*. *National Aviation University*, Kyiv, Ukraine 26–27 May 2016.
- VIDMACHENKO, A.P. (2016) “The floating ices on the surface of Pluto.” Paper given at *18 International scientific conference Astronomical School of Young Scientists*. *National Aviation University*, Kyiv, Ukraine 26–27 May 2016.
- VIDMACHENKO, A.P. (2016) “New objective of the “New Horizons” in the Kuiper Belt.” Paper given at *18th International scientific conference Astronomical School of Young Scientists*. *National Aviation University*, Kyiv, Ukraine. 26–27 May 2016, pp. 14–16.
- VIDMACHENKO, A.P. (2018) “Water in solar system.” Paper given at *20th International scientific conference Astronomical School of Young Scientists*. *National Aviation University*, Uman, Ukraine. 23–24 May 2016, pp. 91–93.
- VIDMACHENKO, A.P. (2018) “Comparative features of volcanoes on Solar system bodies.” Paper given at *20th International scientific conference Astronomical School of Young Scientists*. *National Aviation University*, Uman, Ukraine. 23–24 May 2016, pp. 9–12.
- VIDMACHENKO, A.P. (2018) *Features of volcanoes on different Solar system bodies*. *Astronomical School's Report* **14**, no. 1, 1–14.
- VIDMACHENKO, A.P. (2019) *Pluto (to the 90th anniversary of the discovery of the planet)*. *Astronomical Almanac* **66**, 217–229.
- VIDMACHENKO, A.P. (2022) “Chapter 17. Features of seasonal changes on Pluto.” In *Proceedings of the 8th International scientific and practical conference. Science, innovations and education: problems and prospects*. (CPN Publishing Group. Tokyo, Japan), 108–116.
- VILAS, F. (2019) *Synergy in planetary science from the ground up*. *AGU Fall Meeting Abstracts* **P13D**, 01 (Abstract).

- VILLAÇA, C.V.N. AND CRÓSTA, A.P. (2019) *Semi-automated extraction of morphometric parameters of impact craters on Pluto's surface. Large Meteorite Impacts and Planetary Evolution VI proceedings of the conference held September 30–October 3, 2019 in Brasília, Brazil., LPI Contribution No. 2136, id. 5017.*
- VILLARD, R. (1979) *The outermost planet: re-stating the case for Neptune. Star and Sky* **1**, 6–7.
- VILLARD, R. (1979) *Neptune and Pluto may have had close encounter with unknown planet. Star and Sky* **1**, 4, 9.
- VILLARD, R. (1980) *Mission beyond the planets envisioned. Star and Sky* **2**, 6–8.
- VILLARD, R. (1980) *Pluto moon occults a star. Star and Sky* **2**, 44–47.
- VILLARD, R. (2006) *Are Pluto and Earth two of a kind? Astronomy* **34**, no. 6, 48–51.
- VINING, C.B. AND BENNETT, G.L. (2010) “Principles for developing interplanetary spacecraft fault management systems.” Paper given at *8th Annual International Energy Conversion Engineering Conference, Nashville, TNAIAA paper #2010-6598.*
- VINTER HANSEN, J.M. (1949) *Pluto. IAU Circular No. 1212.*
- VISSE, L.V. (1996) *Book Review: Chaos in the cosmos. by B. Parker (New York, NY, Plenum Press.) 300 pp., \$28.95 Astronomy* **24**, no. 7, 98.
- VOELZKE, M.R. AND DE ARAÚJO, M.S.T. (2010) *Pluto: Planet or “Dwarf Planet”?* *Revista de Ensino de Ciências e Matemática.* **1**, 66–79.
- VOGEL, G. (1999) *Planetary systems: Expanding the habitable zone. Science* **286**, 70–71.
- VOGT, N. (1980) *Pluto – der ferne planet. Sterne und Weltraum* **19**, 4–8.
- VOKROUHICKÝ, D., BOTTKÉ, W.F., AND NESVORNÝ, D. (2016) *Capture of trans-Neptunian planetesimals in the main asteroid belt. Astron. Jour.* **152**, no. 2, 39.
- VOLK, K. AND MALHOTRA, R. (2017) *The curiously warped plane of the Kuiper Belt. Asteroids, Comets, and Meteorites* **2017**, 205–206 (Abstract).
- VOOSEN, P. (2019) *New Horizons inspects a distant time capsule: Kuiper Belt “snowman” supports idea that planetary building blocks coalesced from clumps of pebbles. Science* **363**, no. 6423, 11.
- VOOSEN, P. (2019) *A close-up of a far-out object. Science* **366**, no. 6472, 11439.
- VOOSEN, P. (2020) *Planetary turmoil unleashed during Solar System infancy. Science* **367**, no. 6476, 350–351. ■
- VOOSEN, P. (2021) *Asteroid tour could reveal solar systems chaotic origin: NASA's Lucy mission will survey Jupiter's Trojans, thought to have been swept up by migrating gas giants. Science* **374**, no. 6564, 136–137.
- VOOSEN, P. (2023) *Astronomers may have spied second Kuiper belt. Science* **382**, no. 6666, 20–21.
- VOOSEN, P. (2024) *Giant planets ran amok soon after Solar System's birth. Science* **382**, no. 6693, 258–259.
- WACE, M. (1987) *Pluto has a methane atmosphere. Jour. Brit. Astron. Assoc.* **98**, 3.
- WAAGEN, E.O. (2012) *Possible Occultation by Pluto from US East Coast. AAVSO Alert Notice* 460.
- WAFF, C.B. (1989) *The struggle for the outer planets. Astronomy* **17**, no. 9, 44–52.
- WAGNER, N., KAY, J., AND SCHENK, P. (2018) *Study of the orientation of the Bladed Terrain feature in Tartarus Dorsa, Pluto. AGU Fall Meeting Abstracts* **P51e**, 2933 (Abstract).
- WAGNER, N.L., KAY, J.P., AND SCHENK, P.M. (2019) *The orientation of the Bladed Terrain feature in Tartarus Dorsa, Pluto and possible reorientation of Pluto. Lunar & Planetary Sci.* **50**, 1931 (Abstract).
- WAGNER, R. (1993) *Nein on nine? The end of the line may open up a new road to the rest of the solar system. Ad Astra* **5**, no. 5, 37–41.
- WALDROP, M.M. (1988) *Space science looks to the future—cautiously. Science* **241**, 162–163.
- WALDROP, M.M. (1990) *Looking forward to Hubble. Science* **247**, 412.

- WALDROP, M.M. (1990) *Hubble Space Telescope takes aim at the stars*. *Science* **247**, 1546–1547.
- WALDROP, M.M. (1991) *Radio astronomy’s crumbling showpiece*. *Science* **253**, 268–269.
- WALKER, A.R. (1980) *Probable occultation by 1978 P1*. *IAU Circular No. 3466*.
- WALKER, A.R. (1980) *An occultation by Charon*. *Mon. Not. Roy. Astron. Soc.* **192**, 47P–50P.
- WALKER, A.R. (1981) *Pluto’s companion lit up*. *Scientiae* **22**, 26.
- WALKER, M.F., AND HARDIE, R.H. (1955) *A photometric determination of the rotational period of Pluto*. *Pub. Astron. Soc. Pacific* **67**, 224–231.
- WALKER, W.S.G., DIX, D., MARINO, B.F., AND URQUHART, G. (1988) *Occultation by Pluto*. *IAU Circular No. 4620*, 2.
- WALKER, R. (1999) *Last rock from the Sun*. *New Scientist* **162**, no. 2186, 48.
- WALLACE, R.A., LANE, A.L., ROBERTS, P.H., AND SNYDER, G.C. (1981) “*Missions to the far outer planets in the 1990s*.” Paper given at *19th Aerospace Sciences Meeting*, St. Louis, MO. *AIAA paper #1981-311*.
- WALLER, W.H. (2019) *A Linnaean system for the stars*. (Book review). *Physics Today* **71**, no. 11, 55–56.
- WALSH, K.J. AND LEVISON, H.F. (2015) *Formation and evolution of Pluto’s small satellites*. *Astron. Jour.* **150**, 11.
- WALZ-CHOJNACKI, G. (1991) *Hubble goes to work*. *Odyssey* **13**, no. 1, 4–11.
- WAN, L. AND ZHANG, X. (2019) *Modeling Pluto’s atmosphere: temperature distribution and rotational emission lightcurves*. *AGU Fall Meeting Abstracts* **P322B**, 01 (Abstract).
- WAN, L. AND ZHANG, X. (2020) *Modeling Pluto’s rotational thermal emission from its atmosphere and surface*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.03 (Abstract).
- WAN, L., ZHANG, X., AND BERTRAND, T. (2021) *Effects of haze radiation and Eddy heat transport on the thermal structure of Pluto’s lower atmosphere*. *Astrophys. Jour.* **922**, no. 2, 244.
- WAN, X.-S., HUANG, T.-Y., AND INNANEN, K.A. (2000) *Resonances in the orbit motion of Pluto*. *Pub. Purple Mt. Obs.* **19**, no. 2, 80–84.
- WAN, X.-S. AND HUANG, T.-Y. (2001) *The 1:1 superresonance in Pluto’s motion*. *Astron. Jour.* **121**, 1155–1162.
- WAN, X.-S. AND HUANG, T.-Y. (2001) *The orbit evolution of 32 plutinos over 100 million year*. *Astron. Astrophys.* **368**, 700–705.
- WAN, X.-S., DAI, Z.-F., AND HUANG, T.-Y. (2003) *The resonance region of Plutinos under the perturbation of outer planets*. *Cel. Mech. and Dynam. Astron.* **87**, 121–127.
- WAN, X.-S. AND HUANG, T.-Y. (2007) *An exploration of the Kozai resonance in the Kuiper Belt*. *Mon. Not. Roy. Astron. Soc.* **377**, 133–141.
- WANG, J., FAN, S., LIU, C., NATRAJ, V., YOUNG, L., AND YUNG, Y.L. (2021) *Scattering properties of ice components in Plutos haze*. *Bull. Amer. Astron. Soc.* **53**, 114.08 (Abstract).
- WANG, J., FAN, S., LIU, C., NATRAJ, V., YOUNG, L., AND YUNG, Y.L. (2023) *Impacts of organic ice condensation on the optical properties of haze on Pluto*. *Planetary Sci. Jour.* **4**, no. 1, 17.
- WANROOY, S.H.J. (1937) *Pluto ein planetoid?* *Der Sterne* **18**, 85–86.
- WARD, W.R. AND HAHN, J.M. (1998) *Neptune’s eccentricity and the nature of the Kuiper Belt*. *Science* **280**, 2104–2106.
- WARD, W.R. AND CANUP, R.M. (2006) *Forced resonant migration of Pluto’s outer satellites by Charon*. *Science* **313**, 1107–1109.
- WASSERMAN, L.H., MILLIS, R.L., FRANZ, O.G., KLEMOLA, A.R., AND DAHN, C.C. (1988) *Precise astrometry of the Pluto/Charon system*. *Bull. Amer. Astron. Soc.* **20**, 806 (Abstract).

- WASSERMAN, L.H., MILLIS, R.L., ELLIOT, J.L., AND YOUNG, L.A. (1991) *The radius of Pluto from the 9 June 1988 occultation.* *Bull. Amer. Astron. Soc.* **23**, 1216 (Abstract).
- WASSERMAN, L.H., OLKIN, C.B., AND FRANZ, O.G. (2000) *HST measurement of the Charon/Pluto mass ratio.* *Bull. Amer. Astron. Soc.* **32**, 1082 (Abstract).
- WASSERMAN, L.H. (2005) *How close does Pluto's orbit come to Neptune?* In "Ask Astro." *Astronomy* **33**, no. 8, 66–67.
- WATSON, C.C. AND TOMBRELLO, T.A. (1982) *Enhanced ion erosion of planetary surfaces.* *Lunar & Planetary Sci.* **13**, 845–846 (Abstract).
- WATSON, R.D., HILL, K.M., AND DIETERS, S.W. (1988) *Occultation by Pluto.* *IAU Circular No. 4612*, 1.
- WATTEZ, T. (1997) *Clyde Tombaugh a rejoint Pluton.* *Astronomie* **111**, 262–268.
- WAYNE, R.P. (1991) "8.6 Uranus, Neptune, Triton, and Pluto." In *Chemistry of Atmospheres* (Clarendon Press, Oxford), 368–371.
- WEARNER, R.G. (1985) *The only American to discover a planet.* *McDonald Observatory News* **8**, no. 8, 4–5.
- WEAVER, H.A., STERN, S.A., MUTCHLER, M.J., STEFFL, A.J., BUIE, M.W., MERLINE, W.J., SPENCER, J.R., YOUNG, E.F., AND YOUNG, L.A. (2005) *S/2005 P 1 and S/2005 P 2.* *IAU Circular No. 8625*.
- WEAVER, H.A., STERN, S.A., MUTCHLER, M.J., STEFFL, A.J., BUIE, M.W., MERLINE, W.J., SPENCER, J.R., YOUNG, E.F., AND YOUNG, L.A. (2006) *The discovery of two new satellites of Pluto.* *Nature* **439**, 943–945.
- WEAVER, H.A., STERN, S.A., AND NEW HORIZONS SCIENCE ENGINEERING TEAM. (2004) "The New Horizons Mission to Pluto and the Kuiper Belt." Paper given at 35th COSPAR Scientific Assembly, 18–15 July 2010, Paris, France. p. 1752.
- WEAVER, H.A. AND STERN, S.A. (2008) "New Horizons: NASA's Pluto-Kuiper Belt mission." In *The solar system beyond Neptune* (M.A. Barucci, H. Boehnhardt, D.P. Cruikshank, and A. Morbidelli, eds.), University of Arizona Press, Tucson 557–571.
- WEAVER, HAROLD A., BAINES, K.H., SIMON-MILLER, A.A., CHENG, A.F., GLADSTONE, G.R., RETHERFORD, K.D., THROOP, H.B., MOORE, J.M., SPENCER, J.R., STERN, S.A., AND NEW HORIZONS SCIENCE TEAM. (2007) *New Horizons observations of polar lightning on Jupiter.* *Bull. Amer. Astron. Soc.* **39**, 408 (Abstract).
- WEAVER, H.A., GIBSON, W.C., TAPLEY, M.B., YOUNG, L.A., AND STERN, S.A. (2007) *Overview of the New Horizons science payload.* *Spa. Sci. Rev.* **140**, no. 1–4, 75–91.
- WEAVER, H., GRUNDY, W., STERN, A., YOUNG, L., BAGENAL, F., BINZEL, R., BURATTI, B., CHENG, A., CRUIKSHANK, D., GLADSTONE, R., HINSON, D., HORÁNYI, M., JENNINGS, D., LINSKOTT, I., MCCOMAS, D., MCKINNON, W., MCNUTT, R., MOORE, J., MURCHIE, S., OLKIN, C., PORCO, C., REITSEMA, H., REUTER, D., SLATER, D., SPENCER, J., STROBEL, D., SUMMERS, M., AND TYLER, L. (2010) "The New Horizons Mission to Pluto and the Kuiper Belt." Paper given at 38th COSPAR Scientific Assembly. 18–15 July 2010, Bremen, Germany, p. 3, .
- WEAVER, H.A., BUIE, M.W., BURATTI, B.J., GRUNDY, W.M., LAUER, T.R., OLKIN, C.B., PARKER, A.H., PORTER, S.B., SHOWALTER, M.R., SPENCER, J.R., STERN, S.R., VERBISCHER, A.J., MCKINNON, W.B., MOORE, J.M., ROBBINS, S.J., SCHENK, P., SINGER, K.N., BARNOUIN, O.S., CHENG, A.F., ERNST, C.M., LISSE, C.M., JENNINGS, D.E., LUNSFORD, A.W., REUTER, D.C., HAMILTON, D.P., KAUFMANN, D.E., ENNICO, K., YOUNG, L.A., BEYER, R.A., BINZEL, R.P., BRAY, V.J., CHAIKIN, A.L., COOK, J.C., CRUIKSHANK, D.P., DALLE ORE, C.M., EARLE, A.M., GLADSTONE, G.R., HOWETT, C.J.A., LINSKOTT, I.R., NIMMO, F., PARKER, J.W., PHILIPPE, S., PROTOPAPA, S., REITSEMA, H.J., SCHMITT, B., STRYK, T., SUMMERS, M.E., TSANG, C.C.C., THROOP, H.H.B., WHITE, O.L., AND ZANGARI, A.M. (2016) *The small satellites of Pluto as observed by New Horizons.* *Science* **351**, no. 6279, 1281.

- WEAVER, H.A., STERN, S.A., YOUNG, L.A., OLKIN, C.B., ENNICO, K., MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., GRUNDY, W.M., CRUIKSHANK, D.P., GLADSTONE, G.P., SUMMERS, M.E., AND BAGENAL, F. (2015) *New Horizons investigations of Charon and Pluto's small moons*. *Bull. Amer. Astron. Soc.* **47**, 100.02 (Abstract).
- WEAVER, H.A., BARNOUIN, O.S., CHENG, A.F., ERNST, C.M., LAUER, T.R., STERN, S.A., OLKIN, C.B., ENNICO, K., AND YOUNG, L.A. (2015) *Investigating surface features on Nix and Hydra*. *Bull. Amer. Astron. Soc.* **47**, 102.07 (Abstract).
- WEAVER, H.A. AND STERN, S.A. (2016) "Latest results from and plans for the New Horizons Pluto-Kuiper Belt Mission." Paper given at 41st COSPAR Scientific Assembly, abstracts from the meeting that was to be held 30 July–07 August at the Istanbul Congress Center (ICC), Turkey, but was cancelled. Abstract LR.1-3-16., .
- WEAVER, H.A. AND STERN, S.A. (2016) "The exploration of the Pluto system by New Horizons." Paper given at 41st COSPAR Scientific Assembly, abstracts from the meeting that was to be held 30 July–07 August at the Istanbul Congress Center (ICC), Turkey, but was cancelled. Abstract B0.4-4-16., .
- WEAVER, H.A., PORTER, S.B., BUIE, M.W., COOK, J.C., GRUNDY, W.M., VERBISCHER, A.J., HAMILTON, D.P., LAUER, T.R., SHOWALTER, M.R., SPENCER, J.R., STERN, S.A., ENNICO, K., OLKIN, C.B., YOUNG, L.A., AND NEW HORIZONS SCIENCE TEAM. (2019) *2019 Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, Pluto's small satellites. 7028 (Abstract).
- WEAVER, JR., H.A., PORTER, S.B., SPENCER, J.R., STERN, S.A., VERBISCHER, A., BENECCHI, S., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., CRUIKSHANK, D.P., GRUNDY, W.M., KAVELAARS, J.J., LAUER, T., LISSE, C.M., MOORE, J., OLKIN, C., PARKER, A.H., PARKER, J.W., YOUNG, L.A., AND ZANGARI, A.M. (2019) *Update on high resolution searches for KBO binaries using New Horizons LORRI*. *AGU Fall Meeting Abstracts* **P331**, 3531 (Abstract).
- WEAVER, H.A., LISSE, C.M., EL-MAARRY, M.R., BRITT, D.T., BURATTI, B.J., CHENG, A.F., CRUIKSHANK, D.P., PARKER, J.W., PROTOPAPA, S., SCHMITT, B., AND STERN, S.A. (2019) *Comparing KBO (486958) MU₆₉ to JFC nuclei*. *ESPC–DPS Joint Meeting* **13**, 1135W (Abstract).
- WEAVER, H., LISSE, C., EL-MAARRY, M., AND NEW HORIZONS SCIENCE TEAM. (2020) *Investigating connections between KBO (486958) MU₆₉ and JFC nuclei*. *Bull. Amer. Astron. Soc.* **52**, no. 1, 438.06 (Abstract).
- WEAVER, H.A., CHENG, A.F., MORGAN, F., TAYLOR, H.W., CONARD, S.J., NUNEZ, J.I., RODGERS, D.J., LAUER, T.R., OWEN, W.M., SPENCER, J.R., BARNOUIN, O., RIVKIN, A.S., OLKIN, C.B., STERN, S.A., YOUNG, L.A., TAPLEY, M.B., AND VINCENT, M. (2020) *In-flight performance and calibration of the LOng Range Reconnaissance Imager (LORRI) for the New Horizons Mission*. *Pub. Astron. Soc. Pacific* **132**, no. 1009, 03503.
- WEAVER, H., PORTER, S., AND SPENCER, J. (2021) *Discovery of tight binaries in the Kuiper Belt by New Horizons LORRI*. *Bull. Amer. Astron. Soc.* **53**, 307. (Abstract).
- WEAVER, H.A., PORTER, S.B., SPENCER, J.R., AND THE NEW HORIZONS SCIENCE TEAM. (2022) *High-resolution search for Kuiper Belt Object binaries from New Horizons*. *Planetary Sci. Jour.* **3**, no. 2, 46.
- WEBSTER, JR., W.J., WEBSTER, A.C., AND WEBSTER, G.T. (1972) *Interferometer observations of Uranus, Neptune, and Pluto at wavelengths of 11.1 and 3.7 centimeters*. *Astrophys. Jour.* **174**, 679–684.
- WEI, Q., HU, Y., LIU, Y., LIN, D.N.C., YANG, J., AND SHOWMAN, A.P. (2018) *Young surface of Plutos Sputnik Planitia caused by viscous relaxation*. *Astrophys. Jour.Lett.* **856**, no. 1, L14.
- WEI, Q., HU, Y., AND LIU, Y. (2018) *Young surface of Pluto's Sputnik Planitia caused by viscous relaxation*. *Bull. Amer. Astron. Soc.* **50**, 506.09 (Abstract).
- WEIDENSCHILLING, S.J. (1983) *Progress toward the origin of the solar system*. *Rev. Geophys. Spa. Phys.* **21**, 206–213.
- WEIDENSCHILLING, S.J. (1991) *A plurality of worlds*. *Nature* **352**, 190–192.

- WEIDENSCHILLING, S. (2006) *Evolution of a massive planetesimal disk in the outer solar system*. *Bull. Amer. Astron. Soc.* **38**, 617 (Abstract).
- WEIGELT, G. (1984) "Speckle interferometry, speckle masking, speckle spectroscopy, and speckle frame selection." In *Very large telescopes, their instrumentation, and programs, Proceedings of the colloquium* (Garching, W. Germany, April 9–12, 1984), 344–345.
- WEIGELT, G., BAIER, G., EBERSBERGER, J., FLEISCHMANN, F., AND HOFFMANN, K.H. (1986) *High resolution speckle methods for overcoming image degradation caused by atmospheric and telescopic aberrations*. *Optical Engineering* **25**, 706–711.
- WEINSTEIN, S. (1992) "Pluto flyby mission design concepts for very small and moderate spacecraft." Paper given at *AIAA/AAS Guidance, Navigation, and Control Conference*, AIAA-92-4372, Hilton Head Island, South Carolina, August 10–12. pp. 76–???
- WEINTRAUB, D.A., STERN, S.A., AND FESTOU, M. (1993) *Millimeter-wave measurements of Pluto's thermal emission: evidence for a cold surface*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- WEINTRAUB, D. (2007) *Pluto by any definition... Who defines a planet?* *Mercury* **36**, no. 1, 26–28.
- WEINTRAUB, D.A. (2008) *Is Pluto a planet? a historical journey through the solar system* (.), D.A. Weintraub/Princeton University Press, Princeton, NJ280 pp.
- WEISSMAN, P.R., DOBROVLSKIS, A.R., AND STERN, S.A. (1989) *Constraints on the population of the Kuiper comet belt based on the low eccentricity of the orbit of Charon*. *Bull. Amer. Astron. Soc.* **21**, 941 (Abstract).
- WEISSMAN, P.R., DOBROVLSKIS, A.R., AND STERN, S.A. (1989) *Constraints on cometary impact rates in the Pluto–Charon system and the population of the Kuiper comet belt*. *Geophys. Res. Letters* **16**, 1241–1244.
- WEISSMAN, P.R., AND STERN, S.A. (1993) *The impactor flux in the Pluto–Charon system*. *Pluto and Charon*, Flagstaff, AZ, 1993 July 10–14 (Abstract).
- WEISSMAN, P.R., AND STERN, S.A. (1994) *The impactor flux in the Pluto–Charon system*. *Icarus* **111**, 378–386.
- WEISSMAN, P.R. (1994) *Bodies at the brink*. *Planetary Report* **14**, no. 1, 4–7.
- WEISSMAN, P.R. (1995) *The Kuiper Belt*. *Ann. Rev. Astron. Astrophys.* **33**, 327–357.
- WEISSMAN, P. (2007) *More pleas for Pluto*. *Sky and Tel.* **113**, no. 1, 12–13 (Letter to editor).
- WEITZENHOFFER, K. (1987) *Pluto and Charon over-reported*. *Sky and Tel.* **74**, 574.
- WELLMAN, W. (1971) *On the surface of Pluto*. *Applied Optics* **10**, 173.
- WELLS, D.R. (1990) *Was the Titius-Bode series dictated by the minimum energy states of the generic solar plasma?* *IEEE Transactions on Plasma Science* **18**, 73–76.
- WELLS, D.R. (1995) *Titius-Bode series galaxy group red shift differences calculated from the roots of the Bessel equation*. *Astrophys. Space Sci.* **227**, 255–263.
- WENZ, J. (2024) *Icy worlds' secrets*. *Astronomy* **52**, no. 3, 10.
- WESSNER, C. (1996) *FYI*. *Popular Science* **248**, no. 4, 86–90.
- WESSNER, C. (1996) *FYI*. *Popular Science* **249**, no. 5, 89–92.
- WEST, R.M. (1988) *Ved solsystemets yderste grænse: Neptun og Pluto*. *Naturkalenderen 1989* **14**, 276–286.
- WESTRUP, H. (1996) *Next stop Pluto*. *Current Science* **82**, no. 3, 4–5.
- WETTERER, M.K. (1997) *Book Review: Clyde Tombaugh and the search for planet X*. *Sky and Tel.* **93**, no. 4, 65.
- WHALEN, R.H. (1994) *Pluto in a 6 inch scope*. *Astronomy* **22**, no. 8, 13 (Letter to editor).
- WHEELER, M. (1995) *Destination Pluto*. *Popular Mechanics* **172**, no. 7, 64–66.

- WENDEL, J. (2020) *Ancient impact's seismic waves reveal Pluto's ocean, core.* *Eos* **101**, Published on 06 April 2020. [http](#)
- WHIPPLE, F.L. (1958) *Notes on comets, meteors, and planetary evolution.* *Pub. Astron. Soc. Pacific* **70**, 485–488.
- WHIPPLE, F.L. (1964) *Evidence for a comet belt beyond Neptune.* *Proc. Nat. Acad. Sci.* **51**, 711–718.
- WHIPPLE, A.L., TRAFTON, L.M., AND STERN, S.A. (1989) *A gravitational restricted three-body model of Pluto's upper atmosphere.* *Bull. Amer. Astron. Soc.* **21**, 982 (Abstract).
- WHITE, O.L., SCHENK, P., DOMBARD, A.J., AND MOORE, J.M. (2014) *Crater relaxation and heat flow in the Saturnian system, and anticipation of New Horizons observations at the Pluto–Charon system.* *AGU Fall Meeting Abstracts* **P43**, B3990 (Abstract).
- WHITE, O.L., MOORE, J.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., YOUNG, L.A., CHENG, A.F., AND NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING THEME TEAM. (2016) *“Geologic mapping of the encounter hemisphere of Pluto.”* Paper given at *Annual Planetary Geologic Mappers Meeting*, 13–15 June 2016 Flagstaff, AZ.
- WHITE, O., STERN, S.A., OLKIN, C.N., ENNICO, K., YOUNG, L.A., AND MOORE, J. (2015) *Geomorphological mapping of Sputnik Planum and surrounding terrain on Pluto.* *Bull. Amer. Astron. Soc.* **47**, 210.06 (Abstract).
- WHITE, O.L., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., YOUNG, L.A., MOORE, J.M., CHENG, A.F., AND NEW HORIZONS GGI THEME TEAM. (2016) *Geomorphological mapping of the encounter hemisphere on Pluto.* *Lunar & Planetary Sci.* **47**, 2479 (Abstract).
- WHITE, O., MOORE, J.M., STERN, C.B., WEAVER, H.A., OLKIN, C.B., ENNICO, K., YOUNG, L., CHENG, A.F., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS AND IMAGING THEME TEAM, NEW HORIZONS COMPOSITION THEME TEAM. (2016) *Geomorphological mapping of Sputnik Planum on Pluto.* *Bull. Amer. Astron. Soc.* **48**, no. 7, 107 (Abstract).
- WHITE, O.L., MOORE, J.M., MCKINNON, W.B., SPENCER, J.R., HOWARD, A.D., SCHENK, P.M., BEYER, R.A., NIM MO, F., SINGER, K.N., UMURHAN, O.M., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., CHENG, A.F., BERTRAND, T., BINZEL, R.P., EARLE, A.M., GRUNDY, W.M., LAUER, T.R., PROTOPAPA, S., ROBBINS, S.J., SCHMITT, B., AND THE NEW HORIZONS SCIENCE TEAM. (2017) *Geological mapping of Sputnik Planitia on Pluto.* *Icarus* **287**, 261–286.
- WHITE, O.L., MOORE, J.M., HOWARD, A.D., SCHENK, P.M., UMURHAN, O.M., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., YOUNG, L.A., CHENG, A.F., AND THE NEW HORIZONS GGI THEME TEAM. (2018) *Washboard and fluted terrain on Pluto: evidence for past expanded glaciation.* *Lunar & Planetary Sci.* **49**, 1697 (Abstract).
- WHITE, O.L., MOORE, J.M., HOWARD, A.D., MCKINNON, W.B., KEANE, J.T., SINGER, K.N., BERTRAND, T., ROBBINS, S.J., SCHENK, P.M., SCHMITT, B., BURATTI, B.J., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS, IMAGING THEME TEAM. (2019) *Washboard and fluted terrains on Pluto as evidence for ancient glaciation.* *Nature Astronomy* **3**, 62–68.
- WHITE, O.L., MOORE, J.M., HOWARD, A.D., KEANE, J.T., SCHENK, P.M., SINGER, K.N., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., YOUNG, L.A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS IMAGING TEAM. (2019) *Washboard and fluted terrains on Pluto as evidence for ancient glaciation.* *Pluto System After New Horizons*, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7008 (Abstract).
- WHITE, O.L., SINGER, K.N., WILLIAMS, D.A., MOORE, J.M., AND LOPES, R.M.C. (2019) *“A forthcoming global geologic map of Pluto.”* Paper given at *Annual Planetary Geologic Mappers Meeting*, 12–14 June 2019 Flagstaff, AZ, LPI Contribution No. 2154, 7001.
- WHITE, O.L., SINGER, K.N., WILLIAMS, D.A., MOORE, J.M., AND LOPES, R.M.C. (2019) *“A forthcoming global geologic map of Pluto.”* Paper given at *The Space Astrophysics Landscape for the 2020s and Beyond*, 1–3 April, 2019 Potomac, MD, LPI Contribution No. 2135, id.7001.

- WHITE, O.L., MOORE, J.M., HOWARD, A.D., MCKINNON, W.B., KEANE, J.T., SINGER, K.N., BERTRAND, T., ROBBINS, S.J., SCHENK, P.M., SCHMITT, B., BURATTI, B.J., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., YOUNG, L.A., AND NEW HORIZONS GEOLOGY, GEOPHYSICS, IMAGING THEME TEAM. (2019) *Washboard and fluted terrains on Pluto as evidence for ancient glaciation*. *Nature Astronomy* **3**, 62–68.
- WHITE, O.L., MOORE, J.M., MCKINNON, W.B., STERN, S.A., WEAVER, JR., H.A., OLKIN, C., SPENCER, J.R., PARKER, J.W., VERBISCHER, A., GRUNDY, W.M. (2019) *The geology and formation of the Kuiper Belt Object 2014 MU₆₉*. *AGU Fall Meeting Abstracts* **P42C**, 01 (Abstract).
- WHITE, O.L., SINGER, K.N., WILLIAMS, D.A., MOORE, J.M., LOPES, R.M.C., STERN, S.A., AND MCGOVERN, P.J. (2020) *Progress on global geological mapping of Pluto*. *Lunar & Planetary Sci.* **51**, 1212 (Abstract).
- WHITE, O., SINGER, K., WILLIAMS, D., MOORE, J., LOPES, R., HOWARD, A., BERTRAND, T., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS IMAGING SCIENCE THEME TEAM. (2020) *Volatile ice precipitation and erosion in Pluto’s eastern hemisphere*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 105.01 (Abstract).
- WHITE, O.L., SINGER, K.N., WILLIAMS, D.A., MOORE, J.M., AND LOPES, R.M.C. (2021) “A forthcoming global geologic map of Pluto.” Paper given at 2021 Annual Planetary Geologic Mappers Meeting, 14–15 June 2021 held virtually, LPI Contribution No. 2610, 7009.
- WHITE, O.L., SINGER, K.N., WILLIAMS, D.A., MOORE, J.M., AND LOPES, R.M.C. (2022) *A global geological map of Pluto at 1:7M scale*. *Lunar & Planetary Sci.* **53**, 1302 (Abstract).
- WHITE, O.L., SINGER, K.N., WILLIAMS, D.A., MOORE, J.M., AND LOPES, R.M.C. (2022) “Is true polar wander recorded in Pluto’s ancient geology?” Paper given at 2022 Annual Planetary Geologic Mappers Meeting, 22–23 June 2022 held virtually, LPI Contribution No. 2684, 7036.
- WHITMAN, D. (2004) *King of the Kuiper Belt*. *Mercury* **33**, no. 3, 17–25.
- WHITMIRE, D.P. AND MATESE, J.J. (1985) *Periodic comet showers and planet X*. *Nature* **313**, 36–38.
- WHYTE, A.J. (1980) *The planet Pluto* (Toronto, Permagon Press), 155 pp.
- WICKHAM-EADE, J.E., BURCHELL, M.J., PRICE, M.C., AND HARRISS, K.H. (2018) *Hypervelocity impact fragmentation of basalt and shale projectiles*. *Icarus* **311**, 52–68.
- WICKRAMASINGHE, N.C., WICKRAMASINGHE, D.T., AND STEELE, E.J. (2018) *Comets, Enceladus and panspermia*. *Astrophys. Spa. Sci.* **363**, no. 12, 244.
- WIDEMANN, T., SICARDY, B., GILMORE, A., KILMARTIN, P., HEARNshaw, J., BATISTA, V., GREENHILL, J., DIETERS, S., MATHERS, S., HERALD, D., ASSAFIN, M., CAMARGO, J., NETO, D., ANDREI, A., MARTINS VIEIRA, R., AND BEHREND, R. (2007) *The July 31, 2007 stellar occultation by Pluto*. *Bull. Amer. Astron. Soc.* **39**, 540 (Abstract).
- WIEGERT, P., INNANEN, K., HUANG, T.Y., AND MIKKOLA, S. (2003) *The effect of Neptune’s accretion on Pluto and the Plutinos*. *Astron. Jour.* **126**, 1575–1587.
- WILD, W.J. (1989) *Matrix formalism for inferring planetary surface albedo distributions from light-curve measurements*. *Pub. Astron. Soc. Pacific* **101**, 844–848.
- WILD, W.J. (1991) *Light-curve inversion formalism*. *Astrophys. Jour.* **368**, 622–625.
- WILD, W.J., BUCHWALD, G., DIMARIO, M.J., AND STANDISH, E.M. (1998) *Serendipitous discovery of the oldest known photographic plates with images of Pluto*. *Bull. Amer. Astron. Soc.* **30**, 1449.
- WILDEY, R.L. (1985) *The determination of physical and dynamical parameters of Pluto/Charon and binary asteroids by least squares formation of a matched filter for a time series of images I. The operational theory*. *Astron. Jour.* **90**, 1883–1893.
- WILEY, JR., J.P. (1997) *Book Review: Pluto and Charon: ice worlds on the ragged edge of the solar system*, by S.A. Stern and J. Mitton, John Wiley and Sons, New York, NY. 232 pp. *Astronomy* **25**, no. 12, 104–105.

- WILKENS, A. (1930) *Bemerkungen über den transneptunischen Planet Pluto*. *Astron. Nachr.* **240**, 85–88.
- WILKENS, A. (1973) *Zur störungstheorie der planetoiden des Hilda-Typus nebst erweiterung auf das system großen planeten Pluto–Neptun*. *Sitzungber. Bayer. Akad. Wiss., Math.-Nat. Kl. Jahrgang* **1972**, 4–28.
- WILKENS, A. (2023) *Ice-spewing supervolcano may have been found on Pluto*. *New Scientist* **November 04–10, 2023**, 19.
- WILKINS, G.A. AND SINCLAIR, A.T. (1974) *The dynamics of the planets and their satellites*. *Proc. Royal Soc. London. Ser. A, Math. and Phys. Sci.* **336**, no. 1604, 85–104.
- WILLIAMS, C.A., VAN FLANDERN, T., AND WRIGHT, E.A. (1987) *First order planetary perturbations with elliptic functions*. *Cel. Mech.* **40**, 367–391.
- WILLIAMS, G. AND JANESICK, J. (1996) *Cameras with CCDs capture new markets*. *Laser Focus World* **32**, no. 3, S5–S6.
- WILLIAMS, G.V. (2005) *Pluto Observations [608 Haleakala-NEAT/MSSS]*. *Minor Planet Circular* 54698, 4.
- WILLIAMS, G.V. (2005) *Pluto Observations [644 Palomar Mountain/NEAT]*. *Minor Planet Circular* 54698, 4.
- WILLIAMS, I.P. (1997) *The trans-Neptune region*. *Reports on Progress in Physics* **60**, 1–22.
- WILLIAMS, I. AND BELL, J. (2006) *What it takes to make a planet*. *Astron. & Geophys.* **47**, no. 5, 16–17.
- WILLIAMS, J.G. (1969) *Secular perturbations in the solar system*. Ph. D. dissertation, Univ. California at Los Angeles, Los Angeles, CA.
- WILLIAMS, J.G. AND BENSON, G.S. (1970) *Resonances between Pluto and Neptune*. *Bull. Amer. Astron. Soc.* **2**, 253 (Abstract).
- WILLIAMS, J.G. AND BENSON, G.S. (1971) *Resonances in the Neptune–Pluto system*. *Astron. Jour.* **76**, 167–177.
- WILLIAMS, S.H. (1991) *Extraterrestrial planetology*. *Geotimes* **38**, no. 2, 28–30.
- WILLIS, J.E. AND GROSCH, H.R.J. (1942) *Positions of Pluto, 1939*. *Astron. Jour.* **50**, 14–15.
- WILSON, A. (1987) *Exploring the solar system. II. Space* **3**, 44–45, 47.
- WILSON, E. (1999) *New telescope peers at Pluto, finds solid ethane*. *Chemical Engineering News* **77**, 12.
- WILSON, H.C. (1909) *A possible planet beyond Neptune’s orbit*. *Pop. Astron.* **17**, 229–232.
- WILSON, S. (2012) *It takes two*. *New Scientist* **215**, no. 2876, 31.
- WILSON, T. (2018) *This month in astronomical history: providing context for the advancement of astronomy*. *Bull. Amer. Astron. Soc.* **50**, no. 2, 132.04 (Abstract).
- WINTER, F.H. AND VAN DER LINDEN, R. (2022) *Looking back: 100, 75, 25 years ago*. *Aerospace America* **60**, no. 1, 62–63.
- WINTER GIULIATTI, S.M., WINTER, O.C., FERNANDES-GUIMARÃES, A.H., AND SILVA, M.R. (2010) *Exploring S-type orbits in the Pluto–Charon binary system*. *Mon. Not. Roy. Astron. Soc.* **404**, 442–450.
- WINTERS, J. (1997) *The snow on Pluto*. *Discover* 1997 **18**, no. 1, 46.
- WISDOM, J. (1987) *Chaotic dynamics in the solar system*. *Icarus* **72**, 241–275.
- WISDOM, J. (1987) *Chaotic behaviour in the solar system*. *Proc. Roy. Soc. A* **413**, 109–129.
- WISDOM, J. AND HOLMAN, M. (1991) *Symplectic maps for the N-body problem*. *Astron. Jour.* **102**, 1528–1538.
- WISDOM, J. (1992) *Solar system dynamics*. *Directory of Research Projects, Planetary Geology and Geophysics Program NASA TM-4428*, 147 (Abstract).
- WISDOM, J. (1992) *“Long term evolution of the solar system”* In *Chaos, resonance and collective dynamical phenomena in the solar system, Proceedings of the 15th Symposium of the International Astronomical Union*, ed. S. Ferraz-Mello (Kluwer, Boston), pp. 17–24.

- WISDOM, J. (1994) *Symplectic maps for the N-body problem with application to solar system dynamics*. Ph.D. dissertation, MIT, Cambridge, CA.
- WITASSE, O., SÁNCHEZ-CANO, B., MAYS, M.L., KAJDIČ, P., OPGENOORTH, H., ELLIOTT, H.A., RICHARDSON, I.G., ZOUGANELIS, I., ZENDER, J., WIMMER-SCHWEINGRUBER, R.F., TURC, L., TAYLOR, M.G.G.T., ROUSSOS, E., ROUILLARD, A., RICHTER, I., RICHARDSON, J.D., RAMSTAD, R., PROVAN, G., POSNER, A., PLAUT, J.J., ODSTRIL, D., NILSSON, H., NIEMENEN, P., MILAN, S.E., MANDT, K., LOHF, H., LESTER, M., LEBRETON, J.P., KUULKERS, E., KRUPP, N., KOENDERS, C., JAMES, M.K., INTZEKARA, D., HOLMSTROM, M., HASSLER, D.M., HALL, B.E.S., GUO, J., GOLDSTEIN, R., GOETZ, C., GLASSMEIER, K.H., GÉNOT, V., EVANS, H., ESPLEY, J., EDDBERG, N.J.T., DOUGHERTY, M., COWLEY, S.W.H., BURCH, J., BEHAR, E., BARABASH, S., ANDREWS, D.J., AND ALTOBELLI, N. (2017) *Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU*. *Jour. Geophys. Res. Space Physics* **122**, no. 8, 7865–7890.
- WITHERS, P. (2005) *What is a planet?* *Eos* **86**, no. 36, 326.
- WITKOWSKI, J. (1955) *The life and work of Professor Dr. Thaddeus Banachiewicz*. *Acta Astron.* **5**, Ser. C, 85–94.
- WITZE, A. (2014) *Pluto-bound probe faces crisis*. *Nature* **509**, 407–408.
- WITZE, A. (2015) *Planetary science: the Pluto siblings*. *Nature* **518**, 470–472.
- WITZE, A. (2015) *Pluto-bound craft hunts for hazardous moons*. *Nature* **521**, 14–15.
- WITZE, A. (2015) *Pluto fly-by: a graphical guide to the historic mission*. *Nature* **523**, 140–141.
- WITZE, A. (2015) *Pluto’s massive mountains hint at geological mysteries*. *Nature* **523**, ???.
- WITZE, A. (2015) *Vibrant Pluto seen in historic fly-by*. *Nature* **523**, 389–390.
- WITZE, A. (2015) *Vibrant Pluto stuns scientists*. *Nature* **523**, 389–390.
- WITZE, A. (2015) *Nitrogen glaciers flow on Pluto*. *Nature* **524**???, ???.
- WITZE, A. (2015) *Pluto snow forecast poses atmospheric conundrum*. *Nature* **525**, 13–14.
- WITZE, A. (2015) *Alan Stern: Pluto hunter*. *Nature* **528**, no. 7583, 462.
- WITZE, A. (2016) *Icy heart could be key to Plutos strange geology*. *Nature* **538**, no. 7626, 439.
- WITZE, A. (2019) *Cosmic collision created ‘snowman’ MU₆₉ — the farthest world ever explored*. *Nature* **565**, no. 7738, 142–143.
- WOERNER, D.F. (1999) *Revolutionary systems and technologies for missions to the outer planets*. *Acta Astron.* **44**, 187–192.
- WOLF, M. (1930) *Mitteilung über einen jenseits der Neptun-Bahn kreisenden planeten*. *Astron. Nachr.* **238**, 163–164.
- WOLF, M. (1930) *Beobachtungen kleiner planeten*. *Astron. Nachr.* **240**, 61.
- WOLF, M. (1930) *Pluto*. *IAU Circular No.* 303.
- WOLF, M. (1930) *Pluto*. *Astron. Nachr.* **240**, 407.
- WOLF, M. (1931) *Photographische Aufnahmen von Pluto und Kleinen Planeten in Heidelberg*. *Astron. Nachr.* **241**, 381.
- WOLTJER, D.L. (1986) *Activities report in astronomy*. *European Southern Observatory Annual Report*, 1986.
- WONG, M., YUNG, Y.L., AND GLADSTONE, R. (2013) *Pluto’s implications for a Snowball Titan*. *AGU Fall Meeting Abstracts* **P24B**, 08 (Abstract).
- WONG, M.L., YUNG, Y.L., AND RANDALL GLADSTONE, G. (2015) *Pluto’s implications for a Snowball Titan*. *Icarus* **246**, 192–196.

- WONG, M.L., GLADSTONE, R., SUMMERS, M.E., AND YUNG, Y. (2015) *Pluto photochemical models for the New Horizons flyby*. *Bull. Amer. Astron. Soc.* **47**, 210.21 (Abstract).
- WONG, M.L., FAN, S., GAO, P., LIANG, M.C., SHIA, R.L., YUNG, Y., KAMMER, J.A., SUMMERS, M., GLADSTONE, R., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *The photochemistry of Pluto's atmosphere as illuminated by New Horizons*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 160 (Abstract).
- WONG, M.L., FAN, S., GAO, P., LIANG, M.C., SHIA, R.L., YUNG, Y., KAMMER, J.A., SUMMERS, M., GLADSTONE, R., YOUNG, L.A., AND THE NEW HORIZONS SCIENCE TEAM. (2017) *The photochemistry of Pluto's atmosphere as illuminated by New Horizons*. *Icarus* **287**, 110–115.
- WONG, T., MCKINNON, W.B., SCHENK, P.M., MOORE, J.M., SPENCER, J.R., OLKIN, C.B., YOUNG, L.A., ENNICO, K., WEAVER, H.A., AND STERN, S.A. (2017) *Convection in Sputnik Planitia, Pluto: depth of the N₂ ice layer and possible presence of basal N₂ melt*. *Lunar & Planetary Sci.* **48**, 2787 (Abstract).
- WONG, T., HANSEN, U., WIESEHÖFER, T., MCKINNON, W.B. (2019) *Formation of cellular structures on Sputnik Planitia from convection*. *AGU Fall Meeting Abstracts* **P42C**, 07 (Abstract).
- WOO, J.M.Y. AND LEE, M.H. (2018) *On the early in situ formation of Pluto's small satellites*. *Astron. Jour.* **155**, no. 4, 175.
- WOO, J. AND LEE, M. (2020) *A numerical method for determining the elements of circumbinary orbits and its application to circumbinary planets and the satellites of Pluto-Charon*. *Astron. Jour.* **159**, no. 6, 277.
- WOO, J.M.Y., REINHARDT, C., CILIBRASI, M., CHAU, A., HELLED, R., AND STADEL, J. (2022) *Did Uranus' regular moons form via a rocky giant impactor?* *Icarus* **375**, 114842.
- WOO, M.Y. AND COVERSTONE, V.L. (2006) *Low-thrust trajectory optimization procedure for gravity-assist, outer-planet missions*. *Jour. Spacecraft and Rockets* **43**, no. 1121–129.
- WOO, M.Y. AND LEE, M.H.H. (2015) *On the in situ formation of Pluto's small satellites*. *Bull. Amer. Astron. Soc.* **46**, 400.04 (Abstract).
- WOO, M.Y. AND LEE, M.H. (2018) *On the early in situ formation of Pluto's small satellites*. *Astron. Jour.* **155**, no. 4, 175.
- WOO, J.M.Y., REINHARDT, C., CILIBRASI, M., CHAU, A., HELLED, R., AND STADEL, J. (2022) *Did Uranus' regular moons form via a rocky giant impactor?* *Icarus* **375**, 114842.
- WOO, J.M.Y., REINHARDT, C., CILIBRASI, M., CHAU, A., HELLED, R., AND STADEL, J. (2021) *Did Uranus' regular moons form via a rocky giant impactor?* *Icarus* **356**, in press.
- WOOD, J. AND HORNER, J. (2015) *The dynamics of Centaurs in the vicinity of the 2:1 mean motion resonance of Neptune and Uranus Trojan region*. Submitted to *arXiv:1503.06096*
- WOOD, J.A. (1999) *Forging the planets*. *Sky and Tel.* **97**, 36–48.
- WOOD, J., HORNER, J., HINSE, T.C., AND MARSDEN, S.C. (2018) *Measuring the severity of close encounters between ringed small bodies and planets*. *Mon. Not. Roy. Astron. Soc.* **480**, no. 3, 4183–4198.
- WOODCOCK, G., KOS, L., JOHNSON, L., JONES, J., TRAUSCH, A., AND EBERLE, B. (2002) *“Benefits of Nuclear Electric Propulsion to outer planets exploration.” Paper given at 38th AIAA/SAE/ASME/ASEE Joint Propulsion Conference, Indianapolis, IN AIAA paper #2000-3548.*
- WOOLFSON, M.M. (1999) *The Neptune–Triton–Pluto system*. *Mon. Not. Roy. Astron. Soc.* **304**, 195–198.
- WOOLFSON, M.M. (2000) *The origin and evolution of the solar system*. *Astron. & Geophys.* **41**, no. 1, 12–19.
- WOOLFSON, M.M. (2019) *Planet formation and the evolution of the solar system*. *Physica Scripta* **94**, no. 11, 113001.
- WRIGHT, I.P. (1984) *Ices in the solar system*. *Nature* **308**, 692.

- WRIGHT, J. (1993) *Students help blaze the way to Pluto*. *Ad Astra* **5**, no. 5, 45.
- WU, M.-C., AND CHEN, P.-S. (1987) *Pluto*. IAU Circular No. 4401.
- WÜNSCHE, N. (2019) *Beyond Jupiter — (15760) Albion*. *Jour. for Occultation Astronomy* **9**, no. 4, 14–18.
- WYLIE, L.R. (1941) *A comparison of Newcomb’s tables of Neptune with observation 1795–1938*. *Astron. Jour.* **49**, 101–107.
- WYLIE, L.R. (1942) *A comparison of Newcomb’s tables of Neptune with observation 1795–1938*. *Publ. U. S. Naval Obs. Ser. 2* **15**, Part 1.
- YAM, C., MCCONAGHY, T., CHEN, K., AND LONGUSKI, J. (2004) “Preliminary design of nuclear electric propulsion missions to the outer planets.” Paper given at AIAA/AAS *Astrodynamics Specialist Conference and Exhibit*, Providence, Rhode Island, Aug. 16–19, 2004.
- YAM, C.H., MCCONAGHY, T.T., CHEN, K.J., AND LONGUSKI, J.M. (2004) “Design of low-thrust gravity-assist trajectories to the outer planets.” Paper given at *55th International Astronautical Congress*, Vancouver, BC, IAC paper #04-A.6.02.
- YAMAMOTO, I. (1934) *Prof. Yamamoto’s suggestion on the origin of Pluto*. *Bull. Kwasan Observatory* **3**, 288.
- YANEZ, M.D., HOLLER, B.J., YOUNG, L.A., CHANOVER, N.J., AND OLKIN, C.B. (2016) *Search for short-term temporal evolution of Pluto’s surface*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 148 (Abstract).
- YANEZ, M.D., HODYSS, R., CABLE, M., AND JOHNSON, P. (2017) *Analysis of potential radical chemistry on Kuiper Belt Objects*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 216.16 (Abstract).
- YANEZ, M., HODYSS, R., CABLE, M., AND JOHNSON, P. (2017) *Analysis of potential radical chemistry on Kuiper Belt Objects*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 216.16 (Abstract).
- YANG, C.M. AND IP, W.H. (2018) *Gas tori of the outer planets including the Pluto-Charon system. Serendipities in the Solar System and Beyond* **ASP Conference Series** **513**, 269.
- YANPING G. (2002) *New Horizons Pluto-Kuiper Belt mission: design and simulation of the Pluto-Charon encounter*. *34th COSPAR Scientific Assembly, The Second World Space Congress, held 10-19 October, 2002 in Houston, TX* p. **Q-2-07**, (Abstract).
- YELLE, R.V. AND LUNINE, J.I. (1989) *Composition and thermal structure of Pluto’s atmosphere*. *Eos* **70**, 382 (Abstract).
- YELLE, R.V. AND LUNINE, J.I. (1989) *Evidence for a molecule heavier than methane in the atmosphere of Pluto*. *Nature* **339**, 288–290.
- YELLE, R.V. AND ELLIOT, J.L. (1993) *Structure and composition of Pluto’s atmosphere*. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- YELLE, R.V. (1993) *Hydrodynamic escape of Pluto’s atmosphere*. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- YEN, C.-C. TAAM, R.E., LIANG, M.-C. (2014) *Highly fractionated mass loss from the atmosphere of Pluto*. *Bull. Amer. Astron. Soc.* **46**, 419.03 (Abstract).
- YEOMANNS, D.K. (2005) *Impressions of our solar system*. (book review of *The Planets* by Dava Sobel). *Science* **310**, 785.
- YEOMANS, D. (2007) *Book Review: Is Pluto a planet? — a historical journey through the solar system*, by D. Weintraub. *Jour. Hist. Astron.* **38**, no. 131, 250.
- YIN, A. (2018) *Warm–cold climate cycles on Pluto as inferred from a new gravity-scaled visco-elasto-plastic polygon formation model*. *Lunar & Planetary Sci.* **49**, 1134 (Abstract).
- YIZHAKOVYCH, O.M., ANDRUK, V.M., YULDOSHEV, Q., PAKULIAK, L.K., AND MUMINOV, M.M. (2019) *The first results of processing observations of SS bodies from UBAI photographic plate collection using the new technique*. *Odessa Astronomical Publications* **30**, 251.

- YOSHIDA, F. (2018) Size frequency distributions of Jupiter Trojans, Hildas, and main belt asteroids. *Serendipities in the Solar System and Beyond ASP Conference Series* **513**, 85.
- YOSHIZAWA, M., SÔMA, M., AND SUZUKI, S. (1995) Positions of Pluto in 1994 observed with the Tokyo CCD Meridian Circle. *Astron. Jour.* **110**, 3050–3053.
- YOSHIZAWA, M., SÔMA, M., AND SUZUKI, S. (1996) “Positions of Pluto in 1996 observed with the Tokyo CCD Meridian Circle.” In *Proceedings of the Twenty-Eighth Symposium on Celestial Mechanics*, ed. H. Kinoshita and H. Nakai (Tokyo), pp. 192.
- YOUNDIN, A.N., KRATTER, K.M., AND KENYON, S.J. (2012) Circumbinary chaos: using Pluto’s newest moon to constrain the masses of Nix and Hydra. *Astrophys. Jour.* **755**, 17–26.
- YOUNG, E.F., AND BINZEL, R.P. (1989) A surface map for Pluto based on mutual events. *Bull. Amer. Astron. Soc.* **21**, 985 (Abstract).
- YOUNG, E.F. (1989) *A surface albedo map of Pluto based on photometry of mutual events*. S.M. thesis, Massachusetts Institute of Technology, Cambridge, MA.
- YOUNG, E.F. AND BINZEL, R.P. (1990) A singular value decomposition map of Pluto based on mutual event data. *Bull. Amer. Astron. Soc.* **22**, 1128 (Abstract).
- YOUNG, E.F. AND BINZEL, R.P. (1991) Mapping Pluto’s surface from mutual event lightcurves: a comparison of techniques and physical interpretations. *Bull. Amer. Astron. Soc.* **23**, 1216 (Abstract).
- YOUNG, E.F. AND BINZEL, R.P. (1991) Frost transport, albedo changes, and bulk atmospheric freezeout: short-term predictions for Pluto. *Bull. Amer. Astron. Soc.* **23**, 1216 (Abstract).
- YOUNG, E.F. (1992) *An albedo map and frost model of Pluto*. Ph. D. dissertation, Massachusetts Institute of Technology, Cambridge, MA.
- YOUNG, E.F., BINZEL, R.P., AND STERN, S.A. (1992) A frost model for Pluto’s surface: implications for Pluto’s atmosphere. *Lunar & Planetary Sci.* **23**, 1563 (Abstract).
- YOUNG, E.F. AND BINZEL, R.P. (1992) Frost transport, albedo changes, and bulk atmospheric freezeout: short-term predictions for Pluto. *Bull. Amer. Astron. Soc.* **23**, 962 (Abstract).
- YOUNG, E.F. AND BINZEL, R.P. (1993) Comparative mapping of Pluto’s sub-Charon hemisphere: Three least squares models based on mutual event lightcurves. *Icarus* **102**, 134–149.
- YOUNG, E.F. AND BINZEL, R.P. (1993) Erratum: Comparative mapping of Pluto’s sub-Charon hemisphere: Three least squares models based on mutual event lightcurves. *Icarus* **108**, 348–349.
- YOUNG, E.F., BINZEL, R.P., AND THOLEN, D.J. (1993) Least squares modelling of Pluto and Charon’s radii and limb parameters from mutual event lightcurves. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- YOUNG, E.F. AND BINZEL, R.P. (1994) A new determination of radii and limb parameters for Pluto and Charon from mutual event lightcurves. *Icarus* **108**, 219–224.
- YOUNG, E.F., BUIE, M.W., AND CRUIKSHANK, D.P. (1993) Four IR maps of Pluto and their usefulness in identifying methane concentrations. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- YOUNG, E.F. (1993) Deviations from a globally-uniform atmosphere: implications for Pluto’s diurnal volatile transport and the steady-state asymmetry in its atmospheric envelope. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- YOUNG, E.F., BINZEL, R.P., AND CRANE, K. (2001) A two-color map of Pluto’s sub-Charon hemisphere. *Astron. Jour.* **121**, 552–561.
- YOUNG, E.F. AND BUIE, M.W. (1993) Four IR maps of Pluto: applications for mapping methane frost concentrations. *Bull. Amer. Astron. Soc.* **25**, 1130 (Abstract).
- YOUNG, E.F., BUIE, M.W., AND YOUNG, L.A. (2005) Results from PIXON-processed HRC images of Pluto. *Bull. Amer. Astron. Soc.* **37**, 743 (Abstract).

- YOUNG, E.F., OLKIN, C., GRUNDY, W., YOUNG, L., SCHMITT, B., TOKUNAGA, A., OWEN, T., ROUSH, T., AND TERADA, H. (2006) *Characterization of nitrogen ice on Pluto's surface from 1-4 micron spectroscopy*. *EPSC Abstracts* **1**, 628 (Abstract).
- YOUNG, E.F., YOUNG, E.F., AND BUIE, M.W. (2007) *Pluto's radius*. *Bull. Amer. Astron. Soc.* **39**, 541 (Abstract).
- YOUNG, E.F., YOUNG, L., KEENEY, B., REGESTER, J., AND VERBISCHER, A. (2018) *The 15-AUG-2018 stellar occultation by Pluto: evidence for and against changes in haze opacity and atmospheric oblateness*. *Bull. Amer. Astron. Soc.* **50**, 502.01 (Abstract).
- YOUNG, L., BALLY, J., BAUER, J.M., BUIE, M.W., CHANOVER, N.J., FRENCH, R.G., HILL, R.E., HIRIART, D., HOLTZMAN, J.A., HOWELL, R.R., JENNINGS, D.E., MASSEY, P., MATTHEWS, K.Y., MIKO, L.R., MILLIS, R.L., NICHOLSON, P.D., OLKIN, C.B., OWEN, W.B., PLYMATE, C., REGESTER, J., ROE, H.G., RUHLAND, C.R., SADA, P.V., SALAS, L., SEVERSON, S.A., SHOEMAKER, K., VON HIPPEL, T., YOUNG, E.F., YOUNG, J.W., AND ZANGARI, A. (2007) *Visible and near-IR observations of the 2007 March 18 occultation by Pluto*. *Bull. Amer. Astron. Soc.* **39**, 541 (Abstract).
- YOUNG, E.F., BUIE, M.W., FRENCH, R.G., OLKIN, C.S., REGESTER, J.R., RUHLAND, C.T., SHOEMAKER, K., AND YOUNG, L.A. (2006) *The detailed vertical structure of Pluto's atmosphere from the 12 Jun 2006 stellar occultation*. *Bull. Amer. Astron. Soc.* **38**, 541–542 (Abstract).
- YOUNG, E.F. AND BUIE, M.W. (2008) *The potential to determine Pluto's radius from mutual event lightcurves, HST imaging, and Charon's radius and orbital parameters*. *EPSC Abstracts* **3**, 580 (Abstract).
- YOUNG, E.F., GALDAMEZ, K., BUIE, M.W., BINZEL, R.P., AND THOLEN, D.J. (1999) *Mapping the variegated surface of Pluto*. *Astron. Jour.* **117**, 1063–1076.
- YOUNG, E.F. AND BINZEL, R.P. (1999) *Two-color maps of Pluto from B and V mutual event photometry. Pluto and Triton: comparisons and evolution over time, Lowell Observatory's Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24* (Abstract).
- YOUNG, E.F., FRENCH, R.G., YOUNG, L.A., RUHLAND, C.R., BUIE, M.W., OLKIN, C.B., REGESTER, J., SHOEMAKER, K., BLOW, G., BROUGHTON, J., CHRISTIE, G., GAULT, D., LADE, B., AND NATUSCH, T. (2008) *Vertical structure in Pluto's atmosphere from the 2006 June 12 stellar occultation*. *Astron. Jour.* **136**, 1757–1769.
- YOUNG, E.F., OLKIN, C.B., YOUNG, L.A., HOWELL, R.R., AND FRENCH, R.G. (2014) *A detailed look at a Pluto central flash occultation: limits on Pluto's haze opacity, oblateness and surface frost pressure*. *Bull. Amer. Astron. Soc.* **46**, 401.02 (Abstract).
- YOUNG, E. (2000) *Charon's first detailed spectra hold many surprises*. *Science* **287**, 53–54.
- YOUNG, E.F., YOUNG, L.A., BUIE, M.W., OLKIN, C.B., HOWELL, R.R., FRENCH, R.G., SALAS, L., SHOEMAKER, K., FUKUNAGA, W., VENGEL, A., THOLEN, D.J., AND WASSERMAN, L.H. (2011) *Search for Pluto's aerosols: simultaneous IR and visible stellar occultation observations*. *EPSC Abstracts* **6**, 1403 (Abstract).
- YOUNG, E.F., YOUNG, L.A., OLKIN, C.B., BUIE, M.W., SHOEMAKER, K., FRENCH, R.G., AND REGESTER, J. (2011) *Development and performance of the PHOT (Portable High-Speed Occultation Telescope) systems*. *Pub. Astron. Soc. Pacific* **123**, 735–745.
- YOUNG, E.F., YOUNG, L.A., ROE, H., AND HOLLER, B.J. (2015) *Spectroscopy of Pluto's surface from 2.8 – 3.6 μm during the New Horizons flyby*. *Bull. Amer. Astron. Soc.* **47**, 210.10 (Abstract).
- YOUNG, E.F. (2016) *Spectroscopic constraints on Pluto's coupled surface and atmosphere: context for the New Horizons encounter*. *Amer. Astron. Soc. Meeting* **229**, 227.03 (Abstract).
- YOUNG, E.F., BUIE, M.W., PORTER, S.B., ZANGARI, A.M., STERN, S.A., ENNICO, K., REACH, W.T., PFUELLER, E., WIEDEMANN, M., FRASER, W.C., CAMARGO, J., YOUNG, L., AND WASSERMAN, L.H. (2017) *Debris search around (486958) 2014 MU69: Results from SOFIA and ground-based occultation campaigns*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 504.06 (Abstract).

- YOUNG, E. AND GOLDBERG, A. (2019) A Fourier-Optics approach to modeling the 15-AUG-2018 Pluto occultation. *ESPC–DPS Joint Meeting* **13**, 1357Y (Abstract).
- YOUNG, E., CHEN, S., GOLDBERG, A., AND THE PHOT OCCULTATION TEAM. (2020) Increases in Pluto’s Haze Opacity and Column Abundance from 2015 to 2018. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.04 (Abstract).
- YOUNG, E., YOUNG, L.A., JOHNSON, P.E., AND PHOT. (2021) More evidence that Pluto’s atmosphere is freezing out: central flash results from the 15-AUG-2018 occultation. *Bull. Amer. Astron. Soc.* **53**, 114.06 (Abstract).
- YOUNG, E., YOUNG, L.A., JOHNSON, P.E., AND PHOT. (2021) More evidence that Pluto’s atmosphere is freezing out: central flash results from the 15-AUG-2018 occultation. *Bull. Amer. Astron. Soc.* **53**, 307.06 (Abstract).
- YOUNG, G. (1989) Curious Charon. *Sky and Tel.* **77**, no. 6, 583.
- YOUNG, J.R. (1999) Despite e-mail vote, Pluto’s planethood is not in doubt, astronomers say. *Chronicle of Higher Education* **45**, no. 22A26.
- YOUNG, J.W. (1964) Pluto during 1964. *Strolling Astronomer* **17**, 245–246.
- YOUNG, J.W. (1970) Occultation of two galaxies by Pluto. *Strolling Astronomer* **22**, 145–146.
- YOUNG, J.W. (1970) Pluto will transit two galaxies in October. *Sky and Tel.* **40**, 245.
- YOUNG, L.A., AND ELLIOT, J.L. (1991) The test of the “methane-thermostat” model for Pluto’s atmosphere. *Lunar & Planetary Sci.* **21**, 1541 (Abstract).
- YOUNG, L.A., ELLIOT, J.L., BOSH, A.S., HAMMEL, H.B., AND BARON, R.L. (1991) Resolved photometry of Pluto–Charon at several light-curve phases. *Bull. Amer. Astron. Soc.* **23**, 1211 (Abstract).
- YOUNG, L.A., OLKIN, C.B., ELLIOT, J.L., THOLEN, D.J., AND BUIE, M.W. (1993) The Charon–Pluto mass ratio from MKO Astrometry. *Pluto and Charon, Flagstaff, AZ, 1993 July 10–14* (Abstract).
- YOUNG, L.A., OLKIN, C.B., ELLIOT, J.L., THOLEN, D.J., AND BUIE, M.W. (1993) Evidence for a dense Charon from MKO astrometry. *Bull. Amer. Astron. Soc.* **25**, 1137 (Abstract).
- YOUNG, L.A. (1994) *Bulk properties and atmospheric structure of Pluto and Charon*. Ph. D. dissertation, Massachusetts Institute of Technology, Cambridge, MA.
- YOUNG, L.A., OLKIN, C.B., ELLIOT, J.L., THOLEN, D.J., AND BUIE, M.W. (1994) The Charon–Pluto mass ratio from MKO Astrometry. *Icarus* **108**, 186–199.
- YOUNG, L.A., ELLIOT, J.L., TOKUNAGA, A., OWEN, T., CRUIKSHANK, D., AND DEBERGH, C. (1994) Spectroscopic observations of atmospheric CH₄ on Pluto. *Bull. Amer. Astron. Soc.* **26**, 1168 (Abstract).
- YOUNG, L., BALLY, J., BAUER, J.M., BUIE, M.W., CHANOVER, N.J., FRENCH, R.G., HILL, R.E., HIRIART, D., HOLTZMAN, J.A., HOWELL, R.R., JENNINGS, D.E., MASSEY, P., MATTHEWS, K.Y., MIKO, L.R., MILLIS, R.L., NICHOLSON, P.D., OLKIN, C.B., OWEN, W.B., PLYMATE, C., REGESTER, J., ROE, H.G., RUHLAND, C.R., SADA, P.V., SALAS, L., SEVERSON, S.A., SHOEMAKER, K., VON HIPPEL, T., YOUNG, E.F., YOUNG, J.W., AND ZANGARI, A. (2007) Visible and near-IR observations of the 2007 March 18 occultation by Pluto. *Bull. Amer. Astron. Soc.* **39**, 541 (Abstract).
- YOUNG, L.A., TOKUNAGA, A., ELLIOT, J., DEBERGH, C., AND OWEN, T. (1997) Detection of gaseous methane on Pluto. *Icarus* **127**, 258–262.
- YOUNG, L.A., GRUNDY, W., STANSBERRY, J., AND YOUNG, E. (1999) Observational constraints on Pluto’s lower atmosphere. *Pluto and Triton: comparisons and evolution over time, Lowell Observatory’s Fourth Annual Workshop, Flagstaff, AZ, 1999 September 23–24* (Abstract).
- YOUNG, L.A., BINZEL, R.P., AND CRANE, K. (2000) A two-color map of Pluto based on mutual Event lightcurves. *Bull. Amer. Astron. Soc.* **32**, 1083 (Abstract).
- YOUNG, L.A. AND STERN, S.A. (2000) Charon’s albedo and Pluto’s energy budget. *Lunar & Planetary Sci.* 312081 (Abstract).

- YOUNG, L.A., COOK, J.C., YELLE, R.V., AND YOUNG, E.F. (2001) *Upper limits on gaseous CO at Pluto and Triton from high-resolution near-IR spectroscopy*. *Icarus* **153**, 148–156.
- YOUNG, L.A. (2000) *Occultation lightcurves for selected Pluto volatile transport models*. *Bull. Amer. Astron. Soc.* **36**, 1087 (Abstract).
- YOUNG, L.A., OLKIN, C.B., YOUNG, E.F., FRENCH, R.G., SHOEMAKER, K., RUHLAND, C., GREGORY, B., GALVEZ, R. (2005) *Occultation by Pluto I (Charon)*. *IAU Circular No. 8570*.
- YOUNG, L.A. (2005) *Pluto: the next decade of discovery*. *Bull. Amer. Astron. Soc.* **37**, 732 (Abstract).
- YOUNG, L.A., FRENCH, R.G., GREGORY, B., OLKIN, C.B., RUHLAND, C., SHOEMAKER, K., AND YOUNG, E.F. (2005) *New occultation systems and the 2005 July 11 Charon occultation*. *Bull. Amer. Astron. Soc.* **37**, 743 (Abstract).
- YOUNG, L., BUIE, M., FRENCH, R., OLKIN, C., REGESTER, J., RUHLAND, C., AND YOUNG, E. (2006) *Physical processes in Pluto's atmosphere from its 2006 June 12 occultation*. *Bull. Amer. Astron. Soc.* **38**, 542 (Abstract).
- YOUNG, L., BUIE, M.W., OLKIN, C.B., YOUNG, E.F., FRENCH, R.G., AND HOWELL, R.R. (2006) *Pluto's lower atmosphere from stellar occultations*. *Bull. Amer. Astron. Soc.* **40**, 461 (Abstract).
- YOUNG, L., BUIE, M.W., OLKIN, C.B., YOUNG, E.F., WASSERMAN, L.W., REGESTER, J., SPENCER, J.R., SHOEMAKER, K., TAMBLYN, P.M., GULBIS, A.A.S., VAN HEERDEN, H.J., FRASER, B., AND VAN HEERDEN, H. (2009) *Results from the 2009 April 21 Pluto occultation*. *Bull. Amer. Astron. Soc.* **41**, 6.05 (Abstract).
- YOUNG, L. (2009) *News Note: studying Pluto's atmosphere using stellar occultations*. *Mon. Not. Astron. Soc. South Africa* **68**, 88–91.
- YOUNG, L., SICARDY, B., WIDEMANN, T., BRUCKER, M.J., BUIE, M.W., FRASER, B., VAN HEERDEN, H., HOWELL, R.R., LONERGAN, K., OLKIN, C.B., REITSEMA, H.J., RICHTER, A., SEPERSKY, T., WASSERMAN, L.H., AND YOUNG, E.F. (2010) *Results from the 2010 Feb 14 and July 4 Pluto occultations*. *Bull. Amer. Astron. Soc.* **42**, 982 (Abstract).
- YOUNG, L.A., HOWELL, R.R., FRENCH, R.G., SALAS, L., BIANCO, F., YOUNG, E.F., SHOEMAKER, K., FUKUNAGA, W., VENGEL, T., THOLEN, D.J., ERICKSON, C., NANCE, C., HALL, T., BUIE, M.W., OLKIN, C.B., REITSEMA, H.J., REGESTER, J.R., DAILY, J., WESTHOFF, R., WASSERMAN, L.H., TAMBLYN, P., BRUCKER, M.J., GO, C., BULLOCK, M.A., STANSBERRY, J.A., AND MALASAN, H.L. (2011) *Occultations by Pluto and Charon observed by the PHOT team, 2011 June 23 and 27*. *EPSC Abstracts* **6**, 1341 (Abstract).
- YOUNG, L.A., STERN, S.A., WEAVER, H.A., BAGENAL, F., BINZEL, R.P., BURATTI, B., CHENG, A.F., CRUIKSHANK, D., GLADSTONE, G.R., GRUNDY, W.M., HINSON, D.P., HORANYI, M., JENNINGS, D.E., LINSOTT, I.R., MCCOMAS, D.J., MCKINNON, W.B., MCNUTT, R., MOORE, J.M., MURCHIAVIDE, S., PORCO, C.C., REITSEMA, H., REUTER, D.C., SPENCER, J.R., SLATER, D.C., STROBEL, D., SUMMERS, M.E., AND TYLER, G.L. (2007) *New Horizons: anticipated scientific investigations at the Pluto system*. *Spa. Sci. Rev.* **140**, no. 1–4, 93–127.
- YOUNG, L.A. AND STERN, S.A. (2010) "New Horizons: encountering Pluto and KBOs." In *Proceedings of the International Astronomical Union, IAU Symposium No. 263, 2009*, ed. J.A. Fernández, D. Lazzaro, D. Pralnik, and R. Schulz (???), pp. 305–311.
- YOUNG, L., COOK, J.C., ROE, H.G., AND STERN, S.A. (2014) *Keck/NIRSPEC high-resolution spectra of Pluto: a search for cold gaseous CH₄ layer and spatial variation in CH₄ column abundance*. *Bull. Amer. Astron. Soc.* **46**, 401.05 (Abstract).
- YOUNG, L. (2012) *Pluto's volatile transport*. *Bull. Amer. Astron. Soc.* **44**, 304.06 (Abstract).
- YOUNG, L.A. (2012) *Possible Occultation by Pluto on 2012 June 14 UT*. *IAU Circular No. 3138*.
- YOUNG, L.A. (2012) *Volatile transport on inhomogeneous surfaces: I - Analytic expressions, with application to Pluto's day*. *Icarus* **221**, 80–88.

- YOUNG, L.A. (2013) *Pluto's Seasons: new predictions for New Horizons*. *Astrophys. Jour. Lett.* **766**, L22–L27.
- YOUNG, L.A. (2014) *NASA's New Horizons spacecraft and the atmospheres of Pluto and Charon*. *AGU Fall Meeting Abstracts* **P31**, E02 (Abstract).
- YOUNG, L.A., GRUNDY, W.M., BINZEL, R.P., EARLE, A.M., LINSKOTT, I.R., HINSON, D.P., ZANGARI, A.M., MCKINNON, W.B., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., GLADSTONE, G.R., SUMMERS, M.E., MOORE, J.M., AND SPENCER, J.R. (2015) *Volatile transport implications from the New Horizons flyby of Pluto*. *Bull. Amer. Astron. Soc.* **47**, 101.04 (Abstract).
- YOUNG, L., GLADSTONE, R. SUMMERS, M., BAGENAL, F., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., MOORE, J.M., GRUNDY, W.M., AND THE NEW HORIZONS ATMOSPHERES SCIENCE THEME TEAM, NEW HORIZONS PARTICLES AND PLASMA SCIENCE THEME TEAM. (2016) *New Horizons: gas and plasma in the Pluto system*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 88-89 (Abstract).
- YOUNG, L.A., MOORE, J.M., SPENCER, J.R., MCKINNON, W.B., GRUNDY, W.M., GLADSTONE, G.R., STERN S.A., WEAVER, H.A., OLKIN, C., ENNICO, K., AND LINSKOTT, I. (2016) *What have we learned about Pluto from New Horizons mission (Invited Presentation)*. *Geological Soc. Amer. Annual Meeting* **T160**, 48-1 (Abstract).
- YOUNG, L.A., STERN, S.A., OLKIN, C.B., SPENCER, J.R., CHENG, A.F., WEAVER, H.A., ENNICO, K., MOORE, J.M., GRUNDY, W.M., BAGENAL, F., GLADSTONE, R., LUNINE, J.I., AND THE NEW HORIZONS SCIENCE TEAM. (2016) *New Horizons at Pluto: asking the right questions*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 171 (Abstract).
- YOUNG, L., KAMMER, J., STEFFL, A.J., GLADSTONE, R., SUMMER, M., STROBEL, D.F., HINSON, D.P., STERN, S.A., WEAVER, H.A., OLKIN, C., ENNICO, K., AND MCCOMAS, D. (2017) *Pluto's solar occultation from New Horizons*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 105.04 (Abstract).
- YOUNG, L.A., KAMMER, J.A., STEFFL, A.J., GLADSTONE, G.R., SUMMERS, M.E., STROBEL, D.F., HINSON, D.P., STERN, S.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., MCCOMAS, D.J., CHENG, A.F., GAO, P., LAVVAS, P., LINSKOTT, D.R., WONG, M.L., YUNG, Y.L., CUNNINGHAM, N., DAVIS, M., PARKER, J.W., SCHINDHELM, E., SIEGMUND, O.H., STONE, J., RETHERFORD, K., AND VERSTEEG, M. (2018) *Structure and composition of Pluto's atmosphere from the New Horizons solar ultraviolet occultation*. *Icarus* **300**, no. 1, 174–199.
- YOUNG, L. AND JOHNSON, P. (2018) *Haze formation on Pluto on million-year timescales*. *Bull. Amer. Astron. Soc.* **50**, 502.05 (Abstract).
- YOUNG, L.A., TAN, S.P., TRAFTON, L.M., STANSBERRY, J.A., GRUNDY, W.B., PROTOPAPA, S., SCHMITT, B., UMURHAN, O.M., AND BERTRAND, T. (2019) *On the disequilibrium of Pluto's volatiles. Pluto System After New Horizons, LPI Contribution No. 2133, Laurel, MD, 2019 July 14–18, 7039* (Abstract).
- YOUNG, L., TAN, S., TRAFTON, L., STANSBERRY, J., GRUNDY, W., PROTOPAPA, S., SCHMITT, B., UMURHAN, O., BERTRAND, AND T. (2019) *Atmosphere/surface/subsurface interaction at Pluto*. *ESPC–DPS Joint Meeting* **13**, 1015Y (Abstract).
- YOUNG, L.A., BRAGA-RIBAS, F., AND JOHNSON, R.E. (2020) *"Volatiles evolution and atmospheres of Trans-Neptunian objects."* In *The Trans-Neptunian Solar System* (Dina Prialnik, Maria Antoinetta Barucci, and Leslie Young, eds.), 127–151.
- YOUNG, L.A., STANSBERRY, J.A., PROTOPAPA, S., SCHMITT, B., EARLE, A.M., SCHENK, P.M., HOWARD, A.D., STERN, S., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS SCIENCE TEAM. (2020) *Think globally, act locally: sublimation and condensation at Pluto's northern mid-latitudes*. *Bull. Amer. Astron. Soc.* **52**, no. 1, 438.01 (Abstract).
- YOUNG, L.A., PERSON, M.J., YOUNG, E.F., AND SICARDY, B. (2020) *Pluto atmospheric waves from stellar occultations: a wavelet method*. *Bull. Amer. Astron. Soc.* **52**, no. 6, 102.01 (Abstract).

- YOUNG, L., GLADSTONE, R., SUMMERS, M., ELLIOTT, H., HINSON, D.P., CHENG, A., STERN, A., LELLOUCH, E., SICARDY, B., MOORE, J.M., STROBEL, D., MANDT, K., YUNG, Y., BERTRAND, T., AND FORGET, F. (2022) *Pluto's atmosphere. 44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, C3.1-0010-22*, (Abstract).
- YOUNG, M. (2019) *News Notes: Solar System: Pluto & Charon missing small craters. Sky and Tel.* **137**, no. 6, 13.
- YU, Q., AND TREMAINE, S. (1999) *The dynamics of Plutinos. Bull. Amer. Astron. Soc.* **31**, ??? (Abstract).
- YU, QINGJUAN, AND TREMAINE, S. (1999) *The dynamics of Plutinos. Astron. Jour.* **118**, 1873–1881.
- YU, T.Y.M., MURRAY-CLAY, R., AND VOLK, K. (2015) *Trans-Neptunian Objects transiently stuck in Neptune's mean motion resonances: numerical simulations of the current population. Bull. Amer. Astron. Soc.* **47**, 211.08 (Abstract).
- YUNG, Y.L., ZENG, Z.C., AND FAN, S. (2019) *Remote sensing of aerosols scattering in the atmospheres of Earth, planets and beyond. AGU Fall Meeting Abstracts A24H*, 01 (Abstract).
- ZÄGAR, F. (1930) *Die Bahn Plutos mit berücksichtigung der störungen. (The Plutonian path wrt disturbances.) Astron. Nachr.* **240**, 335.
- ZÄGER, F. (1930) *Orbite de Pluton. Jour. des Observateurs* **13**, 184.
- ZÄGER, F. (193???) ??? *Copenhagen Observatory Circular* 305.
- ZAHNLE, K., SCHENK, P., LEVISON, H., AND DONES, L. (2003) *Cratering rates in: the outer solar system. Icarus* **163**, 263–289.
- ZALUCHA, A.M., GULBIS, A.A.S., ZHU, X., STROBEL, D.F., AND ELLIOT, J.L. (2010) *Investigating Pluto's troposphere using a radiative-conductive-convective model and stellar occultation data. Bull. Amer. Astron. Soc.* **42**, 983 (Abstract).
- ZALUCHA, A.M., GULBIS, A.A.S., ZHU, X., STROBEL, D.F., AND ELLIOT, J.L. (2009) *An analysis of Pluto occultation light curves using an atmospheric radiative-conductive model. Bull. Amer. Astron. Soc.* **41**, 6.06 (Abstract).
- ZALUCHA, A.M., GULBIS, A.A.S., ZHU, X., STROBEL, D.F., AND ELLIOT, J.L. (2011) *An analysis of Pluto occultation light curves using an atmospheric radiative-conductive model. Icarus* **211**, 804–818.
- ZALUCHA, A.M. AND GULBIS, A.A.S. (2011) *The wind, temperature, and surface pressure on Pluto from a Pluto general circulation model. EPSC Abstracts* **6**, 1225 (Abstract).
- ZALUCHA, A.M., ZHU, X., GULBIS, A.A.S., STROBEL, D.F., AND ELLIOT, J.L. (2011) *An investigation of Pluto's troposphere using stellar occultation light curves and an atmospheric radiative-conductive-convective model. Icarus* **214**, 685–700.
- ZALUCHA, A.M. AND GULBIS, A.A.S. (2012) *The wind, temperature, and surface pressure on Pluto from a Pluto General Circulation Model. AGU Fall Meeting Abstracts P12A*, 02 (Abstract).
- ZALUCHA, A.M. AND GULBIS, A.A.S. (2012) *Comparison of a simple 2-D Pluto general circulation model with stellar occultation light curves and implications for atmospheric circulation. Jour. Geophys. Res.* **117**, E05002.
- ZALUCHA, A.M. (2014) "Demonstration of a GCM for Mars, GJ 1214b, Pluto, and Triton." Paper given at *Comparative Climatology of Terrestrial Planets, held June 25-28, 2012, in Boulder, Colorado. LPI Contribution No. 1675, id. 8016.*, .
- ZALUCHA, A.M AND MICHAELS, T.I. (2013) *A 3D general circulation model for Pluto and Triton with fixed volatile abundance and simplified surface forcing. Icarus* **223**, 819–831.
- ZALUCHA, A.M. (2016) *An atmospheric general circulation model for Pluto with predictions for New Horizons. Mon. Not. Roy. Astron. Soc.* **459**, no. 1, 902–923.
- ZALUCHA, A.M., MICHAELS, T.I., AND RAFKIN, S. (2013) *The effect of surface albedo on Pluto's atmospheric circulation. Bull. Amer. Astron. Soc.* **45**, 404.04 (Abstract).

- ZALUCHA, A.M. (2014) *Predicted atmospheric temperature retrievals for the New Horizons encounter with Pluto*. *Bull. Amer. Astron. Soc.* **46**, 419.02 (Abstract).
- ZALUCHA, A.M. (2015) *Long-term simulations of Pluto's atmosphere and surface as a coupled system*. *Bull. Amer. Astron. Soc.* **47**, 210.24 (Abstract).
- ZANE, A., ZEHNER, M., ZEIGLER, D.R., BLANARU, M.C., COTTON, M., DINSDALE, L., LAMPERTI, A., MAZZUCATO, M.T., O'CONNOR, D., PIDGLEY, K., SIEBEN, T., AND VELTHUIS, R.H.B. (2012) *Minor Planet Observations [268 New Horizons KBO Search-Magellan/Clay]*. *Minor Planet Circular* 80460.
- ZANGARI, A.M., BINZEL, R.P., AND PERSON, M.J. (2012) *Mapping Pluto's temperature distribution through twenty years of stellar occultations*. *Bull. Amer. Astron. Soc.* **44**, 304.04 (Abstract).
- ZANGARI, A.M., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C., BURATTI, B.J., SPENCER, J., AND ENNICO, K. (2013) *Ground and space-based separate PSF photometry of Pluto and Charon from New Horizons and Magellan*. *Bull. Amer. Astron. Soc.* **45**, 303.08 (Abstract).
- ZANGARI, A. (2015) *A meta-analysis of coordinate systems and bibliography of their use on Pluto from Charon's discovery to the present day*. *Icarus* **246**, 93–145.
- ZANGARI, A.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., OLKIN, C.B., MOORE, J.M., BINZEL, R.P., BUIE, M., BURATTI, B.J., CHENG, A.F., LINSKOTT, I.R., MCKINNON, W.B., REITSEMA, H.J., SCHENK, P., SHOWALTER, M.R., SPENCER, J.R., TYLER, G.L., BRAY, V.J., MOMARY, T.W., NIMMO, F., AND SINGER, K.N. (2014) *Resolved photometry and a solar phase curve for Pluto and Charon from New Horizons LORRI*. *Bull. Amer. Astron. Soc.* **46**, 419.05.
- ZANGARI, A.M., STERN, S.A., WEAVER, H.A., YOUNG, L.A., ENNICO, K., OLKIN, C.B., MOORE, J.M., BINZEL, R.P., BUIE, M.W., BURATTI, B.J., CHENG, A.F., GRUNDY, W.M., LINSKOTT, I.R., MCKINNON, W.B., REITSEMA, H.J., SCHENK, P., SHOWALTER, M.R., SPENCER, J.R., AND TYLER, G. L. (2015) *New Horizons Cruise and Approach Phase 1 photometry for Pluto and a solar phase curve*. *Lunar & Planetary Sci.* **46**, 1306 (Abstract).
- ZANGARI, A.M., BUIE, M.W., BURATTI, B.J., VERBISCHER, A.J., HOWETT, C.J.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., YOUNG, L.A., AND STERN, S.A. (2015) *New Horizons disk-integrated approach photometry of Pluto and Charon*. *Bull. Amer. Astron. Soc.* **47**, 210.01 (Abstract).
- ZANGARI, A.M., SINGER, K.N., BEYER, R.A., SCHENK, P.M., MOORE, J.M., MCKINNON, W.B., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND NEW HORIZONS GEOLOGY, GEOPHYSICS, IMAGING TEAM. (2016) *Have stellar occultations probed Charon's chasmata?* *Lunar & Planetary Sci.* **47**, 1535 (Abstract).
- ZANGARI, A.M., PARKER, A., SINGER, K.N., STERN, S.A., YOUNG, L., OLKIN, C.B., ENNICO, K., WEAVER, H.A., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING SCIENCE THEME TEAMS. (2016) *In search of a signature of binary Kuiper Belt Objects in the Pluto-Charon crater population*. *Bull. Amer. Astron. Soc.* **48**, no. 7, 147 (Abstract).
- ZANGARI, A.M., SINGER, K.N., BETER, R.A., SCHENK, P., YOUNG, E.F., MOORE, J.M., MCKINNON, W.B., STERN, S.A., YOUNG, L.A., WEAVER, H.A., OLKIN, C.B., ENNICO, K., AND THE NEW HORIZONS GEOLOGY, GEOPHYSICS, AND IMAGING TEAM. (2017) *Shedding light on Charon occultations with results from New Horizons*. *Asteroids, Comets, and Meteorites* **2017**, 138–139 (Abstract).
- ZANGARI, A.M., BUIE, M.W., STERN, S.A., TERRELL, D., PORTER, S.B., VERBISCHER, A.J., SOTO, A., TAMBLYN, P., BENECCHI, S., PARKER, A., WASSERMAN, L.H., YOUNG, E.F., AND SKRUTSKIE, M.F. (2017) *A stellar occultation by (486958) 2014 MU69: results from the 2017 July 17 portable telescope campaign*. *On 2017 July 17, (486958)* *Bull. Amer. Astron. Soc.* **49**, no. 5, 504.03 (Abstract).
- ZANGARI, A.M., FINLEY, T.J., STERN, S.A., AND TAPLEY, M.B. (2019) *Return to the Kuiper Belt: launch opportunities from 2025 to 2040*. *Jour. Spacecraft & Rockets* **56**, no. 3, 919–930.

- ZANGARI, A.M., BEDDINGFIELD, C.B., BENECCHI, S.D., BEYER, R.A., BIERSON, C.J., BUIE, M.W., DHINGRA, R.D., EL-MAARRY, M.R., KAVELAARS, J.J., KEANE, J.T., KINCZYK, M.J., LAUER, T.R., MCKINNON, W.B., MOORE, J.M., OLKIN, C.B., PARKER, A.H., PARKER, J.W., PORTER, S.B., ROBBINS, S.J., RUNYON, K.D., SHOWALTER, M.R., SPENCER, J.R., STERN, S.A., UMURHAN, O.M., VERBISCHER, A.J., WEAVER, H.A., AND NEW HORIZONS GGI TEAM. (2019) *The mysterious missing light curve of (486958) 2014 MU69, a bi-lobate contact binary visited by New Horizons*. *Lunar & Planetary Sci.* **50**, 3007 (Abstract).
- ZANINETTI, L. AND SCHOLKMANN, F. (2015) *The impact crater size-frequency distribution on Pluto follows a truncated Pareto distribution: results from a first data set based on the recent New Horizons' Flyby*. *Progress in Physics* **12**, 34–35.
- ZANK, G.P., ADHIKARI, L., ZHAO, L.L., MOSTAFAVI, P., ZIRNSTEIN, E.J., AND MCCOMAS, D.J. (2018) *The pickup ion-mediated solar wind*. *Astrophys. Jour.* **869**, no. 1, 69.
- ZAPPALÀ, V. (1978) *Caronte: il satellite di Plutone*. *Orione* **1**, 97–98.
- ZAPPALÀ, V. DESANCTIS, G. AND FERRERI, W. (1980) *Astrometric positions of Pluto from 1973 to 1979*. *Astron. Astrophys.* **87**, 253.
- ZAPPALÀ, V. DESANCTIS, G. AND FERRERI, W. (1980) *Astrometric positions of Pluto from 1973 to 1979*. *Astron. Astrophys. Supp.* **41**, 29–31.
- ZAPPALÀ, V. DESANCTIS, G. AND FERRERI, W. (1983) *Astrometric positions of Pluto from 1980 to 1982*. *Astron. Astrophys.* **119**, 321.
- ZAPPALÀ, V. DESANCTIS, G. AND FERRERI, W. (1983) *Astrometric positions of Pluto from 1980 to 1982*. *Astron. Astrophys. Supp.* **51**, 385–387.
- ZAVERI, N. AND MALHOTRA, R. (2021) *Pluto's resonant orbit visualized in 4D*. *Bull. Amer. Astron. Soc.* **53**, no. 5, 107.02 (Abstract).
- ZAVERI, N. AND MALHOTRA, R. (2021) *Pluto's resonant orbit visualized in 4D*. *Res. Notes Royal Astron. Soc.* **5**, no. 10, 235.
- ZEHNDER, F. (1971) *Visuelle beobachtungsmöglichkeiten von Pluto mit amateurinstrumenten*. *Orione* **29**, 150–151.
- ZEMCOV, M., IMMEL, P., NGUYEN, C., COORAY, A., LISSE, C.M., AND POPPE, A.R. (2017) *Measurement of the cosmic optical background using the long range reconnaissance imager on New Horizons*. *Nature Communication* **8**, 15003.
- ZEMCOV, M., ARCAVI, I., ARENDT, R., BACHELET, E., RAM CHARY, R., COORAY, A., DRAGOMIR, D., HENRY, R.C., LISSE, C., MATSUURA, S., MURTHY, J., NGUYEN, C., POPPE, A.R., STREET, R., AND WERNER, M. (2018) *Astrophysics with New Horizons: making the most of a generational opportunity*. *Pub. Astron. Soc. Pacific* **130**, no. 993, 115001.
- ZENGER, W.K.F. (1884) *Sur l'existence possible de corps planétaires encore inconnus*. *Comptes Rendus des Seances de l'Acad. de Sci. (Paris)* **99**, 290.
- ZHANG, L., MERÉNYI, E., GRUNDY, W.M., AND YOUNG, E. (2010) *Inference of surface parameters from near-infrared spectra of crystalline H₂O ice with neural learning*. *Pub. Astron. Soc. Pacific* **122**, 839–852.
- ZHANG, X., STROBELL, D.F., AND IMANAKA, H. (2017) *Haze heating and cooling in Pluto's atmosphere*. *Bull. Amer. Astron. Soc.* **49**, no. 5, 105.01 (Abstract).
- ZHANG, X. AND STROBELL, D.F. (2018) *Photochemical hazes control the atmospheric temperature structures on Pluto and Triton*. *AGU Fall Meeting Abstracts* **P44B**, 05 (Abstract).
- ZHANG, X. (2020) *Atmospheric regimes and trends on exoplanets and brown dwarfs*. *Research in Astronomy and Astrophysics* **20**, no. 7, 099.
- ZHAO, L.L., ZANK, G.P., AND ADHIKARI, L. (2019) *Generation mechanisms for low-energy interstellar pickup ions*. *Astrophys. Jour.* **879**, no. 1, 32.

- ZHAO, Y., REZAC, L., SKOROV, Y., HU, S.C., SAMARASINHA, N.H., AND LI, J.Y. (2021) Sublimation as an effective mechanism for flattened lobes of (486958) Arrokoth. *Nature Astronomy* **5**, 139–144.
- ZHIVKOV, A. AND TOUNCHEV, I. (2022) A computer assisted proof for 100,000 years stability of the solar system. Submitted to *arXiv:2206.13467*.
- ZHOU, H.-N. (1979) The region of variation in the inclination of orbit and in the latitude of some objects of solar system. *Acta Sinica* **20**, 121–125.
- ZHOU, H.-N. (1980) Range of variation in the latitudes and inclinations of Jupiter–Saturn and Neptune–Pluto systems. *Chinese Astronomy* **4**, 122.
- ZHU, X., STROBEL, D.F., AND ERWIN, J.T. (2012) Titan’s photochemical model: Further update, oxygen species, and comparison with Triton and Pluto. *AGU Fall Meeting 2012 abstract #P21E-1892*, (Abstract).
- ZHU, X., STROBEL, D.F., AND ERWIN, J.T. (2014) The density and thermal structure of Pluto’s atmosphere and associated escape processes and rates. *Icarus* **228**, 301–314.
- ZIEGLER, J. (1990) Vroom with a view. *Omni* **12**, no. 526.
- ZIELINSKI, S. (2006) Proposal would define ‘Planets’ and ‘Plutons’. *Eos* **87**, no. 34, 338.
- ZIELINSKI, S. (2006) Pluto loses its status as a planet. *Eos* **87**, no. 35, 350.
- ZIELINSKI, S. (2007) On the way to Pluto, spacecraft images Jupiter system. *Eos* **88**, no. 20, 218.
- ZIELINSKI, S. (2007) New Mexico declares Pluto a planet. *Eos* **88**, no. 11, 133.
- ZIMBLEMAN, J.R. (1990) Planetology and meteorites. *Geotimes* **35**, no. 2, 62–63.
- ZIRNSTEIN, E.J., MCCOMAS, D.J., ELLIOTT, H.A., WEIDNER, S., VALEK, P.W., BAGENAL, F., STERN, S.A., ENNICO, K., OLKIN, C.B., WEAVER, H.A., AND YOUNG, L.A. (2016) Interplanetary magnetic field sector from solar wind around Pluto (SWAP) measurements of heavy ion pickup near Pluto. *Astrophys. Jour.Lett.* **823**, L30.
- ZIRNSTEIN, E.J., MCCOMAS, D.J., KUMAR, R., ELLIOTT, H.A., SZALAY, J.R., OLKIN, C.B., SPENCER, J., STERN, S.A., YOUNG, L.A. (2018) In situ observations of preferential pickup ion heating at an interplanetary shock. *Phys. Rev. Lett.* **121**, no. 7, 5102.
- ZOPPETTI, F., FOLONIER, H., LEIVA, A.M., GOMES, G., AND BEAUGE, C. (2022) Orbital evolution of circumbinary bodies due to creep tides. *44th COSPAR Scientific Assembly Held 16-24 July, 2022, Athens, Greece, B1.2-0007-22*, (Abstract).
- ZOTOS, E.E. (2015) Orbit classification in the planar circular Pluto–Charon system. *Astrophys. Spa. Sci.* **360**, Article 7, 14 pp.
- ZOTOS, E.E. (2019) Near-optimal capture in the planar circular restricted Pluto–Charon system. *Planetary and Spa. Sci.* **165**, 85–98.
- ZOTOS, E.E., PERDIOU, A., AND KALANTONIS, V. (2020) Numerical investigation for the dynamics of the planar circular Pluto–Charon system. *Planetary and Spa. Sci.* **179**, 104718.
- ZSIGMOND, Z. AND SÜLI, Á. (2010) How ‘New Horizons’ will see the Pluto–Charon system. *Jour. of Physics: Confrence Series* **218**, no. 1, 012020.
- ZULUAGA, C.A., PERSON, M.J., BOSH, A.S., LEVINE, S.E., GULBIS, A.A.S., ZANGARI, A.M., PASACHOFF, J.M., BABCOCK, B.A., PANDEY, S., AMRHEIN, D., SALLUM, S., DUNHAM, E.W., THOLEN, D.J., COLLINS, P., BIDA, T., TAYLOR, B., LUCAS, R., KAKKALA, M., CIOTTI, J., PLUNKETT, S., HIRAOKA, N., BEST, W., PILGER, E. J., MICELI, M., SPRINGMANN, A., HICKS, M., THACKERAY, B., EMERY, J., RAPOPORT, S., RITCHIE, I., PEARSON, M., MATTINGLY, A., BRIMACOMBE, J., GAULT, D., JONES, R., NOLTHENIUS, R., BROUGHTON, J., AND BARRY, T. (2011) Measured Pluto–Charon offset from the stellar occultations of 23 June 2011. *EPSC Abstracts* **6**, 1866 (Abstract).

- ZULUAGA, C.A., BOSH, A.S., PERSON, M.J., LEVINE, S.E., BRIGHT, L.P., HARRIS, H.C., TILLEMANN, T., THANATHIBODEE, T., AND WEISENBACH, L.W. (2015) *Placing SOFIA in the central flash for the 29 June 2015 Pluto occultation*. *Bull. Amer. Astron. Soc.* **47**, 210.13 (Abstract).
- ZUND, J.D. (1997) *Clyde William Tombaugh (4 February 1906 – 17 January 1997)*. *Astron. Geophys.* **38**, no. 2, 38.
- (1886) *Telescopic search for the trans-Neptunian planet*. *Nature* **33**, no. 846, 258-259.
- (1886) *Notes. Search for the trans-Neptunian planet*. *The Observatory* **9**, 78-79.
- (1909) *Ultra-Neptunian planets*. *The Observatory* **32**, 69.
- (1909) *Possibility of an extra-Neptunian planet*. *Nature* **81**, 541-42.
- (1909) *A search for a planet beyond Neptune*. *The Observatory* **32**, 220.
- (1909) *The search for a planet beyond Neptune*. *The Observatory* **32**, 261.
- (1909) *Notes*. *The Observatory* **32**, 303-305.
- (1909) *Probably a new planet beyond Neptune*. *Pop. Astron.* **17**, 123.
- (1916) *A trans-Neptunian planet*. *Pop. Astron.* **24**, 132-133.
- (1930) *A trans-Neptunian planet*. *Pop. Astron.* **38**, 187.
- (1930) *Minutes of the March 14, 1930 meeting*. *Mon. Not. Roy. Astron. Soc.* **90**, 480.
- (1930) *Lowell Observation Circular*. *Jour. Roy. Astron. Soc. Canada* **24**, 282.
- (1930) *Erratum*. *Jour. Roy. Astron. Soc. Canada* **24**, 480.
- (1930) *Découverte d'un astre transneptunienne à l'Observatoire Lowell*. *Jour. des Observateurs* **13**, 77-78.
- (1930) *The ninth planet*. *Science* **71**, no. 1838, 310.
- (1930) *A new planet beyond Neptune*. *Science* **71**, no. 1838, x.
- (1930) *Percival Lowell's prediction of 1915*. *Science* **71**, no. 1838, x-xii.
- (1930) *The discovery of new planets*. *Science* **71**, no. 1838, xii.
- (1930) *The new planet*. *Science* **71**, no. 1840, 364-365.
- (1930) *"The orbit of Planet X."* *Science* **71**, no. 1843, x.
- (1930) *Items*. *Science* **71**, no. 1849, xii.
- (1930) *Pluto*. *Science* **71**, no. 1850, xii.
- (1930) *The planet Pluto*. *Science* **71**, no. 1852, x.
- (1930) *Rotation of the planets*. *Science* **72**, no. 1869, xii.
- (1930) *Items*. *Science* **72**, no. 1877, xiv.
- (1930) *Pluto*. In "Notes," *Jour. Brit. Astron. Assoc.* **41**, 354.
- (1930) *The new planets*. (Manchester Guardian) *Jour. Roy. Astron. Soc. Canada* **24**, 238.
- (1930) *The award of the Jackson-Gwilt Medal*. In "Notes," *Jour. Brit. Astron. Assoc.* **41**, 265-266.
- (1930) *Pluto's color*. *Sci. NewsLetter* **17**, 360.
- (1930) *Second transneptunian*. *Sci. NewsLetter* **17**, 281.
- (1930) *Oxford child godmother to Pluto*. *Sci. NewsLetter* **17**, 379.
- (1930) *Pluto appears again in predicted place*. *Sci. NewsLetter* **18**, 348.
- (1930) *Astronomers find Pluto as massive as Earth*. *Sci. NewsLetter* **18**, 392.
- (1930) *Scientific achievements of 1930 pass in review*. *Sci. NewsLetter* **18**, 409-411.
- (1930) *Astronomers discover new planet out beyond Neptune*. *Modern Mechnix ???*, June 1930, 167.

- (1931) Another early *Pluto* picture found in Germany. *Sci. NewsLetter* **19**, 41.
- (1931) First *Pluto* pictures made in search for similar planet. *Sci. NewsLetter* **19**, 10.
- (1931) Correction to article on *Pluto*. *Jour. Roy. Astron. Soc. Canada* **25**, 225.
- (1931) Discoverer of *Pluto* gets first Slosson Award. *Sci. NewsLetter* **20**, 40.
- (1932) Planet discovered in 1930 was photographed in 1914. *Sci. NewsLetter* **21**, 244.
- (1932) An early Harvard photograph of *Pluto*. *The Observatory* **55**, 151.
- (1932) The Pullman Meeting of the Pacific Division of the American Association. *Science* **75**, no. 1945, 377.
- (1932) Recognitions and Awards. *Science* **75**, no. 1931, 10.
- (1931) Photographic observations of the Trans-Neptunian Planet, *Pluto*. *Circular of the Union Observatory Johannesburg* **84**, 174.
- (1932) Items. *Science* **75**, no. 1947, 10.
- (1932) Origin of the planets. *Science* **75**, no. 1970, 6.
- (1933) Items. *Science* **77**, no. 2003, 10.
- (1933) Astronomical events of 1934. *Science* **78**, no. 2035, 6–7.
- (1934) Reports: Grants of the American Philosophical Society. *Science* **79**, no. 2052, 387–388.
- (1934) Atmosphere of the planets. *Science* **80**, no. 2062, 8–9.
- (1934) Items. *Science* **80**, no. 2077, 9.
- (1934) Some advances in the sciences during 1934: Astronomy. *Science* **80**, no. 2087, 10–12.
- (1934) Planet *Pluto* similar in size to our Moon. *Sci. NewsLetter* **26**, 244.
- (1936) Small telescope takes photo of planet *Pluto*. *Sci. NewsLetter* **29**, 120.
- (1938) *Pluto* may be covered with layer of liquid air. *Sci. NewsLetter* **33**, 332.
- (1942) New planet may be added to Sun's family of nine. *Sci. NewsLetter* **41**, 361.
- (1942) Search for a new planet. *Science* **95**, no. 2474, 8–10.
- (1945) Items. *Science* **102**, no. 2652, 14.
- (1945) Discoverer of planet goes to UCLA. *Sci. NewsLetter* **48**, 265.
- (1950) March 13th and some planetary history. *Sky and Tel.* **9**, 104.
- (1950) *Pluto*'s diameter. *Sky and Tel.* **9**, 290.
- (1952) Experiments concerning *Pluto*'s diameter. *Sky and Tel.* **11**, 118.
- ANON (1955) Period and rotation of *Pluto*. *Irish Astron. Jour.* **3**, 249.
- (1955) *Pluto* has anniversary. *Sci. NewsLetter* **57**, 54.
- (1955) *Pluto* less than Earth. *Sci. NewsLetter* **57**, 355.
- (1955) Planet *Pluto* believed smaller than expected. *Sci. NewsLetter* **67**, 248.
- (1956) *Pluto*. *Sci. Amer.* **194**, no. 5, 56–58.
- (1956) Discover *Pluto* takes six days to rotate once. *Sci. NewsLetter* **69**, 56.
- (1956) *Pluto* not planet. *Sci. NewsLetter* **69**, 85.
- (1956) *Pluto* not planet. *Science* **123**, no. 3191, 318–319.
- (1962) The planets—Uranus, Neptune, and *Pluto*. In “Getting acquainted with astronomy,” *Sky and Tel.* **23**, 26–27.
- (1963) Astronomers have chance to learn *Pluto*'s diameter. *New Scientist* **17**, no. 325, 274–275.
- (1964) Soviet astronomers pin down *Pluto*'s motion. *New Scientist* **23**, no. 408, 616.

- (1964) Trans-Neptunian comet belt. *Sci. Amer.* **211**, no. 2, 43.
- (1965) Pluto may be bigger than supposed. *New Scientist* **25**, no. 435, 691.
- (1965) Is there a tenth planet? *New Scientist* **27**, no. 461, 673.
- (1965) Pluto's rotation and diameter. In "American Astronomers Report," *Sky and Tel.* **29**, 141.
- (1965) Uranus, Neptune, Pluto formed by snow storm. *Sci. NewsLetter* **87**, 120.
- (1965) Pluto larger than previously estimated. *Sci. NewsLetter* **87**, 261.
- (1969) Pluto's mass and the motion of Neptune. *Sky and Tel.* **37**, 71, 86.
- (1969) Pluto may be lighter than we think. *New Scientist* **42**, no. 646, 193.
- (1971) Pluto and a star. *Sky and Tel.* **41**, 277.
- (1971) Mass of Pluto. In "News Notes," *Sky and Tel.* **42**, 84.
- (1971) Pluto. In "Observer's Notebook," *Sky and Tel.* **41**, 60.
- (1971) More Pluto photographs. In "Observer's Notebook," *Sky and Tel.* **41**, 184.
- (1973) Pluto's rotation. In "News Notes," *Sky and Tel.* **45**, 277.
- (1974) Pluto's rotation. In "News Notes," *Sky and Tel.* **48**, 22.
- (1971) Pluto: reconciling the mass. *Sci. News* **94**, 516.
- (1971) The mass of Pluto; Notes from contributors. *Jour. Roy. Astron. Soc. Canada* **65**, L16.
- (1971) The mass of Pluto. *South Stars* **24**, 63–64.
- (1973) Pluto may be lying on its side. *Sci. News* **103**, 286.
- (1974) A certain air of neon. *Sci. News* **105**, 353.
- (1974) Photometrische untersuchungen an Pluto. *Sterne und Weltram* **13**, 93.
- (1974) Eine neon-atmosphäre auf Pluto? *Sterne und Weltram* **13**, 276–277.
- (1974) Amateurs locate Pluto. *Sky and Tel.* **48**, 59.
- (1974) Hints on observing the elusive planet Pluto. In "Celestial Calendar," *Sky and Tel.* **47**, 278–279.
- (1975) "Pluto." In *The New Encyclopædia Britannica, 15th edition* (Chicago, IL), Vol. 14, 580–581.
- (1976) Frozen methane found on surface of Pluto. *Astronomy* **4**, 59.
- (1976) Is Pluto no bigger than the Moon? *New Scientist* **72**, no. 1027, 872.
- (1976) Venus: hints of a dynamic planet. *Sci. News* **109**, 228–229.
- (1977) Methane frost on Pluto. In "News Notes," *Sky and Tel.* **53**, 172.
- (1978) Studies of photographic plates reveal moon orbiting Pluto. *Astronomy* **6**, 61–62.
- (1978) 1978 P1. Yamamoto Cir. No. 1889.
- (1978) 1978 P1. Yamamoto Cir. No. 1891.
- (1978) Satellite of Pluto 1978 P1. *Brit. Astron. Assoc. Cir. No.* 588.
- (1978) Pluto's possible satellite. In "News Notes," *Sky and Tel.* **56**, 110.
- (1978) More Pluto observations. *The Astronomer* **16**, 40–41.
- (1978) Pluto's satellite. In "News Notes," *Sky and Tel.* **56**, 211.
- (1978) Moon believed found for Pluto. *Sci. News* **114**, 36.
- (1978) Triton, Pluto: methane atmospheres. *Sci. News* **114**, 345.
- (1979) Sticky results from Pluto. *New Scientist* **82**, no. 1151, 185.
- (1979) Breakthrough by Pluto. *Nature* **278**, no. 5704, 499.
- (1979) Neptune is more way out than Pluto. *New Scientist* **81**, no. 1138157.

- (1979) New evidence for lunar Pluto. *New Scientist* **83**, no. 1171, 733.
- (1979) Planet week: the solar system on parade. *Sci. News* **116**, 308–309.
- (1979) Charon. In “Scientific Notes from the IAU at Montreal,” *Sky and Tel.* **58**, 420.
- (1979) Pluto’s moon observed. *New Scientist* **105**, no. 14455.
- (1979) Pluto passes the galaxy NGC 5248. *Sky and Tel.* **57**, 595.
- (1979) Pluto: ein ehemaliger mond von Neptun? *Sterne und Weltram* **18**, 345.
- (1932) (Plate II) The planet Pluto photographed with the Cooke 7.5 inch triplet telescope of the Maria Mitchell Observatory. *Annual Report of the Maria Mitchell Association* **30**, 2–3.
- (1980) 50 and 100 years ago. *Sci. Amer.* **243**, 10.
- (1980) Pluto seen to be Moon-sized. *New Scientist* **85**, no. 1193, 396.
- (1980) Pluto’s atmosphere. In “News Notes,” *Sky and Tel.* **60**, 483.
- (1980) Pluto—so großwie unser Mond. *Sterne und Weltram* **19**, 179.
- (1980) New books received: *Out of the darkness: the planet Pluto*, by C.W. Tombaugh and P. Moore *Sky and Tel.* **60**, 519.
- (1980) Book Review: *Planets X and Pluto*. by A.J. Whyte, Toronto, Pergamon Press. 155 pp. *Jour. Brit. Interplanetary Soc.* **33**, 440.
- (1980) Remote planet Pluto. *Sky and Tel.* **59**, 310.
- (1981) Observatory Reports: University of Arizona Department of Planetary Sciences/Lunar and Planetary Laboratory. *Bull. Amer. Astron. Soc.* **13**, 16–23.
- (1981) A tenth planet? *Spaceflight* **23**, 326.
- (1981) Charon, the new moon of Pluto. In *South African Astronomical Observatory Report for the year ending 31 December 1980*, 8–9.
- (1982) What divided Pluto and his boatman? *New Scientist* **93**, no. 1287, 80.
- (1982) Uranus update II: satellites. In “News Notes,” *Sky and Tel.* **64**, 227.
- (1983) Pluto/Triton discoveries. *Spaceflight* **25**, 71.
- (1984) Studying Pluto. *USA Today* **112**, no. 6, 4–5.
- (1985) Pluto/Charon eclipses begin. *Astronomy* **13**, 60.
- (1985) Eclipses on Pluto. *Science* **228**, 1138.
- (1985) Occultation by Pluto on 1985 August 19. *Brit. Astron. Assoc. Cir. No.* 651.
- (1985) Occultation by Pluto on 1985 August 19. *Brit. Astron. Assoc. Cir. No.* 656.
- (1985) Satellites of Saturn and Pluto. *Yamamoto Obs. Cir. No.* 2053.
- (1985) Initial observation of eclipse of Pluto by moon reported. *The New York Times* ???, ??? (20 February 1985; UPI).
- (1985) Independent origins for Pluto and Triton. *Sky and Tel.* **69**, no. 3, 218.
- (1985) Charon at last? In “News Notes,” *Sky and Tel.* **69**, 312.
- (1985) Eclipse of Pluto observed. *USA Today Magazine* **113**, 2–3.
- (1985) Charon’s wake. *Sci. Amer.* **252**, no. 5, 70,74.
- (1985) Pluto’s moon. *Sci. News* ???, 132.
- (1978) Satellites of Saturn and Pluto. *Brit. Astron. Assoc. Cir. No.* 655.
- (1986) Pluto’s atmosphere. *Sky and Tel.* **61**, 19.
- (1986) Pluto–Charon update. *Sky and Tel.* **72**, 575.
- (1986) Our planets at a glance. *NASA Information Summaries NASA PMS 010 (KSC)*, 16.

- (1986) *Satellites of Saturn and Pluto*. *Brit. Astron. Assoc. Cir.* 655–656.
- (1987) *Correction to Pluto–Charon update*. *Sky and Tel.* **73**, 155.
- (1987) *Getting small*. *Sci. Amer.* **256**, no. 4, 68.
- (1987) *Pluto update*. *Sky and Tel.* **74**, 581.
- (1987) *Pluto/Charon studies*. *Sky and Tel.* **74**, no. 3, 247.
- (1987) *Watching Pluto blink/Transit by Charon*. *Sky and Tel.* **73**, no. 4, 413.
- (1987) *Pluto*. *Planetary Report* **7**, no. 4, 16.
- (1987) *Barren planet bares its air*. *New Scientist* **118**, no. 1619, 45.
- (1987) *Observations of Pluto and Charon*. *Science* **237**, 471.
- (1987) *Water ice and methane on Pluto*. *Science* **237**, 1279.
- (1987) *The Clyde Tombaugh Scholars Program*. *Sky and Tel.* **73**, no. 1, 89.
- (1988) *Passing star brings Pluto’s icecaps to light*. *New Scientist* **120**, no. 1639, 29.
- (1988) *Rocky Pluto has methane crust, Charon is frosty*. *Astronomy* **16**, 86–87.
- (1988) *Pluto: evidence for polar caps*. *Sci. News* **134**, 156.
- (1988) *Pluto: the farthest planet (usually)*. *The Universe in the Classroom* no. **10**, 1–4.
- (1988) *Factinos*. *Planetary Report* **8**, no. 5, 21.
- (1988) *Occultation reveals Plutonian atmosphere*. *Astronomy* **16**, 10.
- (1988) *Pluto’s atmosphere*. *Sky and Tel.* **76**, 125.
- (1988) *Why is Pluto rocky?* *Sky and Tel.* **76**, 600–601.
- (1988) *In from the cold*. *The Economist* **309**, no. 7570, 96.
- (1989) *Pluto’s blue companion Charon*. *Science* **241**, 1023.
- (1989) *Discovery of Pluto’s moon an accident?* *Astronomy* **17**, No. 3, 14.
- (1989) *Planetary satellites*. *Bull. Amer. Astron. Soc.* **21**, 237.
- (1989) *Pluto at perihelion I: summertime atmosphere*. *Sky and Tel.* **78**, 346–347.
- (1989) *Pluto at perihelion II: mutual events continue*. *Sky and Tel.* **78**, 347–348.
- (1989) *Pluto at perihelion III: mapping a mottled surface*. *Sky and Tel.* **78**, 347.
- (1990) *Let’s go Pluto!* *Sky and Tel.* **79**, 14.
- (1990) *Pluto and Charon revealed*. *Sky and Tel.* **80**, 351.
- (1991) *Pluto and Charon*. *Sky and Tel.* **81**, 13.
- (1991) *Factinos*. *Planetary Report* **11**, no. 2, 21.
- (1991) “*Observations of positions of stars and planets: May 1988 to December 1989*.” In *Carlsberg Meridian catalogue No. 5*. (San Fernando, Spain), Real Instituto y Observatorio de la Armada 227, 253.
- (1991) *AAS Divisions applaud notable contributions*. *Physics Today* **44**, no. 1, 82.
- (1991) *Annual Reports, Univ. Arizona Lunar & Planetary Laboratory* *Bull. Amer. Astron. Soc.* **23**, 28–49 (Abstract).
- (1991) *Hubble takes a closer look at the Pluto–Charon system*. *Lunar & Plan. Inf. Bull.* **59**, 3.
- (1991) *Atmosphere on Charon?* *Sky and Tel.* **82**, 232.
- (1991) *Lowell needs stamp of approval*. *Sky and Tel.* **82**, 584.
- (1991) *Spock meets Postmaster General*. *Sky and Tel.* **82**, 583–584.
- (1991) *Solar System Exploration Division Strategic Plan. Executive Summary & Review—Volume I*, 31 pp.

- (1991) *Solar System Exploration Division Strategic Plan. PF/NO: Pluto Flyby/Neptune Orbiter—Volume III*, 26 pp.
- (1991) CCD images of Pluto, M57, and NGC 4527. In “Observer’s Forum” *Jour. Brit. Astron. Assoc.* **101**, 246.
- (1991) Tombaugh receives Rittenhouse Medal. *Sky and Tel.* **81**, no. 4, 423.
- (1992) How big is Pluto? *Astronomy* **20**, no. 6, 22.
- (1992) Mudpie in the sky. *Sky and Tel.* **83**, 133.
- (1992) Seeking Pluto’s minions. *Sky and Tel.* **83**, 611.
- (1992) Pluto’s air. *Sky and Tel.* **84**, 372.
- (1992) Factinos. *Planetary Report* **12**, no. 5, 29.
- (1992) Le plutot possible: planetary exploration. *The Economist* **324**, no. 7775, 86–87.
- (1992) Mission to Pluto. *Aviation Week & Space Technology* **137**, no. 16, 15.
- (1992) Pluto and Charon. *ESO Messenger* **67**, 63.
- (1992) “Observations of positions of stars and planets 1990” In *Carlsberg Meridian catalogue No. 6.* (San Fernando, Spain), *Real Instituto y Observatorio de la Armada* 175, 193.
- (1993) Pluto’s icy surface (and Triton’s too). In “News Notes,” *Sky and Tel.* **86**, no. 6, 10–11.
- (1993) Science/Technology concentrates. *Chemical & Engineering News* **71**, no. 32, 18.
- (1993) Flyby seeks low cost with new technology. *Aviation Week & Space Technology* **138**, no. 7, 49–51.
- (1993) Outer body. *New Scientist* **138**, no. 1868, 11.
- (1993) “Observations of positions of stars and planets January 1991 to August 1992.” In *Carlsberg Meridian catalogue No. 7.* (San Fernando, Spain), *Real Instituto y Observatorio de la Armada* 297–298, 367.
- (1993) *Pluto Fast Flyby.* (JPL), 8 pp.
- (1994) “Observations of positions of stars and planets August 1992 to December 1993.” In *Carlsberg Meridian catalogue No. 8.* (San Fernando, Spain), *Real Instituto y Observatorio de la Armada* XII, 260, 329.
- (1994) Finding Uranus, Neptune, and Pluto. *Sky and Tel.* **87**, 77–78.
- (1994) Pluto’s strange orbit. In, “News Notes,” *Sky and Tel.* **87**, 14–15.
- (1994) Pluto and Charon weigh in—Part II. In, “News Notes,” *Sky and Tel.* **87**, 15.
- (1994) Une sonde russe pour Pluton? *Ciel et Espace* **293**, 8–9.
- (1994) Pluton et Charon sous l’œil d’Hubble. *Ciel et Espace* **294**, 5–6.
- (1994) Pluto’s distant cousins. In, “News Notes,” *Sky and Tel.* **88**, 10.
- (1994) Zooming in on Pluto and Charon. In “News Notes,” *Sky and Tel.* **88**, 14.
- (1994) “Two spacecraft flyby mission to Pluto and Charon.” Paper given at *10th Annual Summer Conference for the NASA/USRA Advanced Design Program*, Jet Propulsion Laboratory, 1994 June 12–16.
- (1994) Pluto flight considered. *Aviation Week & Space Technology* **140**, no. 19, 27.
- (1994) The clearest view yet. *Astronomy* **22**, no. 12, 28.
- (1994) The USRA Symposium looks at the next 25 years. *USRA Quarterly*, Summer 1994, 6–7.
- ??? (1994) Pluto mission banking on Russian participation. *Space Business News* **12**, no. 19, 5–???
- (1994) The coldest place in the solar system. *321 Contact* ???, no. 143, 20–21.
- (1994) Who got to name the planets? *Owl* **19**, no. 7, 10.

- (1994) *The universe is the classroom*. *Odyssey* **3**, no. 8, 34.
- (1994) *Pluto and Charon*. *Jour. Brit. Astron. Assoc.* **104**, 155.
- (1994) ‘Fire and Ice’ Mission looks promising. *Eos* **75**, 409.
- SPACE STUDIES BOARD, NATIONAL RESEARCH COUNCIL (1994) *An integrated strategy for the planetary sciences: 1995–2010*. (National Academy Press, Washington, D.C.), ??? pp.
- (1995) *Revolutionary spacecraft designs for the fast track to Pluto*. *Ad Astra* **7**, no. 3, 19.
- (1995) *Pluto’s family has gained . . .* *Astronomy* **23**, no. 4, 30.
- (1995) *Future mission studies*. *Solar System Exploration Newsletter* **1**, 10–11.
- (1996) *The KAO’s farewell*. *Sky and Tel.* **91**, no. 2, 15.
- (1996) *Peeking at Pluto*. *Sky and Tel.* **91**, no. 5, 10.
- (1996) *A peek at Pluto*. In “In Brief,” *Sci. Amer.* **274**, no. 5, 22.
- (1996) *The face of Pluto—first look*. *Lunar and Planetary Information Bulletin* **79**, 2–3.
- (1996) *The face of Pluto*. *Astronomy* **24**, no. 6, 20.
- (1996) *Pluto spotted*. *Mon. Not. Astron. Soc. South Africa* **55**, no. 5 & 693.
- (1996) *Pluto discoverer turns 90*. *Astronomy* **24**, no. 6, 26.
- (1996) *What is a planet?* *Current Science* **82**, no. 3, 6–7.
- (1996) *Probe seeks to unmask Pluto*. *Aviation Week & Space Technology* **145**, no. 24, 57.
- (1997) *Clyde Tombaugh*. *Astronomy* **25**, no. 4, 28–30.
- (1997) *Pinpointing Pluto’s mass*. *Astronomy* **25**, no. 8, 28.
- (1997) *Death of Tombaugh, discoverer of Pluto*. *Nature* **385**, no. 6614, 289.
- (1997) *Unbuckling the Kuiper belt: beyond the orbit of Pluto lies one of the most mysterious regions of space*. *The Economist* **343**, no. 8017, 87–88.
- (1997) *Eggbeaten*. *The Economist* **343**, no. 8022, ???.
- (1999) *Pluto still a planet*. *Astronomy* **27**, no. 5, 32.
- (1999) *Observer’s challenge: not so difficult Pluto*. *Astronomy* **27**, no. 5, 75.
- (1999) *Statement on Pluto*. *A.A.S. Newsletter* **94**, 10.
- (1999) *Pluto: still a planet*. *Lunar and Planetary Information Bulletin* **86**, 6.
- (1999) *Pluto out in the cold*. *The Economist* **350**, no. 8105, 85.
- (1999) *Another organic molecule found on Pluto*. *Astronomy* **27**, no. 11, 34.
- (1999) *Pluto plea*. *Science* **283**, 769.
- (1999) *Charon: a fountain of youth*. *Science* **287**, 9.
- (1999) *Pluto to the doghouse*. *Science* **287**, 1743.
- (1999) *Astronomers could demote Pluto*. *Jour. College Science Teaching* **28**, no. 5, 296.
- (1999) *Pluto in doubt*. *Geology Today* **15**, no. 2, 48.
- (1999) *Pluto still a planet*. *Geology Today* **15**, no. 3, 87.
- (1999) *Double vision at Pluto*. *Geology Today* **15**, 164.
- (1999) *The big switcheroo*. *Current Science* **84**, no. 11, 3.
- (1999) *Planetary persistence*. *Nature* **397**, no. 6719, 3.
- (1999) *Pluto returns to ninth position*. *Science Scope* **22**, no. 5, 40–41.
- (2000) *The accidental planet find*. *Astron. Now* **14**, no. 6, 54–55.
- (2001) *Pluto not a planet?* *Chemical Engineering News* **79**, no. 7, 72.

- (2001) Another NASA mission bites the dust. *Astronomy* **29**, no. 2, 28.
- (2001) Mission to Pluto gets another chance. *Phys. World* **14**, no. 2, 10.
- (2002) Last chance for the last planet. *Sci. Amer.* **286**, no. 5, 6.
- (2002) A blast from the past. *Nature* **415**, 943.
- (2002) Astronomy—Pluto probe is the top dog. *Phys. World* **15**, no. 8, 12.
- (2002) Pluto or bust? *Science* **297**, 495.
- (1997) Hubble images from 1996. *NASA Technical Report TM-97-112576*???
- (1997) Planetary data. *Advanced Dynamics* **325**, Appendix C, 325.
- ??? (1996) Hubble reveals surface of Pluto. *Science Teacher* **63**, no. 5, 10.
- (1996) Notes: Congratulations to... *Jour. Roy. Astron. Soc. Canada* **90**, 167–172.
- ‘M.D.’ (1996) Postcards from Pluto. *Pop. Sci.* **248**, no. 6, 28.
- (1998) Book Review: *Pluto and Charon* by S.A. Stern and D.J. Tholen, U. Arizona Press *The Observatory* **108**, 107.
- (2001) Book review: *Beyond Pluto — exploring the outer limits of the solar system.* by J. Davies *Nature* **413**, no. 6854, 356.
- (2003) Book review: *Beyond Pluto — exploring the outer limits of the solar system.* by J. Davies *Orion* **61**, 33.
- (2004) Data Points: big beyond Pluto. *Sci. Amer.* **290**, no. 5, 38.
- (2005) Planet number 9. *Technology Review* **108**, no. 4, 26.
- (2005) Faculty notes: Rick Binzel. *EAPSpeaks* **1**, no. 1, 17.
- (2005) Faculty notes: Jim Elliot. *EAPSpeaks* **1**, no. 1, 18.
- (2005) William B. Hubbard — 2005 Gerard P. Kuiper Prize winner. *AAS Newsletter* **126**, 2005 August, p. 9.
- (2005) AAS Division of Planetary Sciences bestows Prizes. In “We Hear That” *Physics Today* **58**, no. 11, 68-69.
- (2006) Charon pinned down ... and Pluto is cool. *Astron. Geophys.* **47**, no. 1, 1.04–1.07.
- (2006) AIAA Bulletin. *Aerospace America* **44**, no. 3, B1..
- (2006) Venetia goes to Pluto. *Astron. Geophys.* **47**, no. 4, 4–8.
- (2006) Pluto: planet, dwarf planet, demoted planet? *Astron. Geophys.* **47**, 4.
- (2006) Pluto assigned asteroid number. In “Astro News Briefs” *Sky and Tel.* **112**, no. 6, 28.
- (2006) Avoiding Pluto’s rings. In “Astro News Briefs” *Sky and Tel.* **112**, no. 6, 28.
- (2006) Pluto assigned asteroid number. In “Astro News Briefs”. *Sky and Tel.* **112**, no. 6, 28.
- (2006) Pluto: finding, naming, and visiting. *Space Research Today* **165**, 6–7.
- (2006) Pluto’s newly-discovered moons. *Space Research Today* **165**, 7.
- (2007) Book Review: *Pluto and beyond : a story of discovery, adversity, and ongoing exploration* by D.A. Weintraub, Princeton Univ. Press, Princeton. 254 pp. *Lunar and Planetary Information Bulletin* **109**, 15.
- (2007) Mission update: Solar telescope goes ballooning; Candidates for Cosmic Vision; Adaptive optics aim for Pluto. *Astron. Geophys.* **48**, no. 6, 8.
- (2009) Society News: Extension of grants for IYA2009; New Fellows; Friends film evening: ‘Naming Pluto’; New Councillors; RAS Awards. *Astron. Geophys.* **50**, no. 3, 39.
- (2006) Pluto: planet, dwarf planet, demoted planet? *Astron. Geophys.* **47**, no. 5, 4.
- (2006) Once there were nine. *Economic and Political Weekly* no. **35**, 3744–3745, .

- (2006) *Discovering Pluto*. *The New Atlantis* **11**, 135.
- (2011) *Carbon monoxide on Pluto*. *Nature* **473**, 423.
- (2012) *Random Sample: Pluto's second shot at Post Office fame*. *Science* **335**, 643.
- (2013) *Random Sample: Name those moons*. *Science* **341**, 116.
- (2014) *News: New Horizons borrows Hubble*. *Science* **344**, no. 6190, 1325.
- (2014) *News: By the numbers*. *Science* **344**, no. 6196, 494.
- (2014) *News: Icy worlds for post-Pluto visit*. *Science* **346**, no. 6208, 402.
- (2014) *2014 Breakthrough of the Year: Solar system encounters*. *Science* **346**, no. 6216, 1450.
- (2015) *News: Dwarf planets, comets*. *Science* **347**, no. 6217, 9.
- (2015) *News: A hazy ring around Pluto*. *Science* **349**, no. 6247, 456.
- (2015) *News: How the gas giants got so big*. *Science* **349**, no. 6250, 772.
- (2015) *News: Pluto probe picks follow-on target*. *Science* **349**, no. 6252, 1031.
- (2015) *News: Pluto and Charon's complicated faces*. *Science* **349**, no. 6254, 1265.
- (2015) *Pluto's pocketbook*. *Playboy* **62**, no.8, 19.
- (2015) *New Horizons of Pluto*. *EAPS Scope: Newsletter of the Department of Earth, Atmospheric, and Planetary Sciences* **2015–2016**, 18–19.
- (2015) *A new Fellowship for Planetary Science honoring the late EAPS Professor James L. Elliot*. *EAPS Scope: Newsletter of the Department of Earth, Atmospheric, and Planetary Sciences* **2015–2016**, 19, 31.
- (2015) *News: ice volcanos on Pluto's surface*. *Science* **350**, no. 6262, 722.
- (2016) *News: Pluto mission reveals best images yet*. *Science* **350**, no. 6266, 1298.
- (2016) *News: Dawn, New Horizons updates*. *Science* **353**, no. 6295, 105.
- (2016) *A peek at Pluto's rich landscapes*. *Nature* **531**, 416.
- (2016) *Observing: December 2016*. *Sky and Tel.* **132**, no. 6, 41.
- (2017) *News: New Horizons eyes new target*. *Science* **357**, no. 6349, 338.
- (2017) *News: News: A double target for a distant probe?*. *Science* **357**, no. 6351, 532.
- (2019) *InSight mission proves technology, generates data: SEIS listens to Mars winds; InSight mission proves technology, generates data: First CubeSats to fly in deep space; TESS finds its first exoplanets; Juno picks out plumes on Io; New Horizons reaches target*. *Astron. & Geophys.* **60**, no. 1, 1.8.
- ??? (1881) *A record of the progress of astronomy during the year 1880*. *Copernicus* **1**, 61–???
- (1931) *Orbit and mass of Pluto*. *Nature* **128**, 1047–1048.
- ??? (1909) *The Problem of an Ultra-Neptunian Planet*. *Nature* **80**, 463.
- ??? (1932) ??? *Harvard Bulletin* 886 (1932 Feb 01).
- (???) *Occultations by Pluto and Charon*. *Yamamoto Cir. No.* 2211.
- (???) *Occultations by Pluto and Charon*. *Yamamoto Cir. No.* 2212.
- (2008) *Mystery Pulse; Pluto Family Portrait; Students to Hunt Pulsars; Titan's Frigid Shores; Too Many Planets!* *Sky and Tel.* **115**, no. 118.
- (2009) *The lower atmosphere of Pluto revealed*. *European Southern Observatory Press Release* 03/2009.
- (2009) *Pluto's name giver*. *Spa. Res. Today* **175**, 31–31.
- (2010) *News and Views: ESA chooses missions; Cassini lives on; SDO gets off the ground Mission update: X marks the spot; Patchy Pluto is changing; WISE identifies new NEO; Small telescope? No problem!* *Astron. Geophys.* **51**, no. 26.

- (2010) *News and Views: Mission update: Did Mars have a global wet era? Instruments for Pluto pass tests; Mystery mounds on Mars; Deep Impact departs; India goes for TMT; Kepler data release.* *Astron. Geophys.* **51**, no. 49.
- (2012) *News and Views: Why is there weather on Uranus? New Horizons in dry run for Pluto; Dawn finds fault with Vesta; Vesta shows signs of dynamo; Sentinel for 2017 launch; LADEE gets ready; Global observatory.* *Astron. Geophys.* **53**, no. 67.
- (2019) *NASA Silver for Binzel.* *EAPS Scope 2018–2019* **9**, .
- () *Planetary Science: Distant body comes into view.* *Science* **363**, no. 6426, 436.
- (2022) *Milestones: Rick Binzel and Kerry Emanuel return from teaching.* *MIT EAPS special edition*, 21.
 see July 1930 Sci. Amer. for another reference, as mentioned in: —— (1980) 50 and 100 years ago. Sci. Amer. **243**, 10.
- (2020) *Goodbye, Pluto's atmosphere.* *Nature* **583**, no. 7815, 171.
- 'K.T.S.' (2024) *A possible gap in the outer solar system.* *Science* **383**, no. 6679, 160–161.

Total number of citations = 5744.