

DANTE S. LAURETTA

Lunar and Planetary Laboratory
Department of Planetary Sciences
University of Arizona
Tucson, AZ 85721-0092

Cell: (520) 609-2088

Email: lauretta@arizona.edu

CHRONOLOGY OF EDUCATION

Washington University, St. Louis, MO

Dept. of Earth and Planetary Sciences

Ph.D. in Earth and Planetary Sciences, 1997

Thesis: Theoretical and Experimental Studies of Fe-Ni-S, Be, and B Cosmochemistry

Advisor: Bruce Fegley, Jr.

University of Arizona, Tucson, AZ

Depts. of Physics, Mathematics, and East Asian Studies

B.S. in Physics and Mathematics, Cum Laude, 1993

B.A. in Oriental Studies (emphasis: Japanese), Cum Laude, 1993

CHRONOLOGY OF EMPLOYMENT

Arizona Regents Professor, Lunar and Planetary Laboratory, Dept. of Planetary Sciences,
University of Arizona, Tucson, AZ; 2021 – present.

Principal Investigator, OSIRIS-REx Asteroid Sample Return Mission, NASA New Frontiers
Program, 2011 – present.

Professor, Lunar and Planetary Laboratory, Dept. of Planetary Sciences, University of Arizona,
Tucson, AZ; 2012 – 2021.

Deputy Principal Investigator, OSIRIS-REx Asteroid Sample Return Mission, NASA New
Frontiers Program, 2008 – 2011.

Associate Professor, Lunar and Planetary Laboratory, Dept. of Planetary Sciences, University of
Arizona, Tucson, AZ; 2006 – 2012.

Assistant Professor, Lunar and Planetary Laboratory, Dept. of Planetary Sciences, University of
Arizona, Tucson, AZ; 2001 – 2006.

Associate Research Scientist, Dept. of Chemistry & Biochemistry, Arizona State University,
Tempe, AZ; 1999 – 2001.

Postdoctoral Research Associate, Dept. of Geology, Arizona State University, Tempe, AZ
Primary project: Transmission electron microscopy of meteoritic minerals.
Supervisor: Peter R. Buseck; Dates: 1997 – 1999.

Research Assistant, Dept. of Earth and Planetary Sciences, Washington Univ., St. Louis, MO
Primary project: Experimental studies of sulfide formation in the solar nebula.
Advisor: Bruce Fegley, Jr.; Dates: 1993 – 1997.

Research Intern, NASA Undergraduate Research Program, University of Arizona, Tucson, AZ
Primary project: Development of a logic-based language for S.E.T.I.
Advisor: Carl Devito; Dates: 1992 – 1993.

HONORS AND AWARDS

University of Arizona Commencement Speaker (2022)
Space Foundation John L. "Jack" Swigert Jr. Award for Space Exploration (2022)
University of Arizona Regents Professor (2021)
American Astronautical Society Space Technology Award (2021)
MOCA Tucson Local Genius Award (2021)
University of Arizona Galileo Circle Dean's Award (2020)
NASA Group Achievement Award – OSIRIS-REx Approach and Preliminary Survey (2019)
Guinness World Record –The Smallest Object to be Orbited by a Spacecraft (2019)
Guinness World Record –The Closest Orbit of a Planetary Body (2019)
NASA Group Achievement Award – OSIRIS-REx Earth Gravity Assist (2018)
Silver Prize (for Constellations) – International Serious Play Board Game Award (2018)
Mensa Select Award (for Constellations) – Mensa Mind Games (2018)
University of Arizona, College of Humanities Alumni of the Year (2017)
NASA Silver Achievement Medal – OSIRIS-REx Asteroid Astronomy Science Team (2017)
NASA Group Achievement Award – OSIRIS-REx Mission Team (2017)
University of Arizona Alumni Achievement Award (2017)
Boys and Girls Clubs of America Alumni Hall of Fame (2017)
Arizonan of the Year (awarded to OSIRIS-REx) – Arizona Republic (2016)
Best Family Board Game of 2016 (for Xtronaut) – Good Housekeeping Magazine (2016)
Ceremonial First Pitch – Arizona Diamondbacks STEM Showcase (2016)
Robert H. Goddard Award for New Opportunities Captured for the OSIRIS-REx Team (2014)
Arizona Governor's Celebration of Innovation Award – Innovator of the Year, Academia (2011)
Antarctica Service Medal of the United States of America (2010)
Kavli Fellow of the National Academy of Sciences (2008)
Award of Excellence Top 10 Oral Presentation AAPG Annual Convention (2008)
UA College of Science Distinguished Early Career Teaching Award (2006)
Top 100 Science Discoveries – Discover Magazine (2004)
The Alfred O. Nier Prize of the Meteoritical Society (2002)
Asteroid 5819 named Laurretta (2002)
Stephen E. Dwornik Planetary Geoscience Award (1997)
Harvey H. Nininger Meteorite Award (1996)
Meteoritical Society Student Travel Grant (1994, 1996)
McDonnell Fellowship for the Space Sciences (1993-95)
NASA Undergraduate Research Space Grant (1992-93)
Silver Prize, Southwest Regional Japanese Essay Contest (1992)
Arizona Regents' Presidential Scholarship (1988-91)

PROFESSIONAL SOCIETIES

The Meteoritical Society, Fellow
American Association for the Advancement of Science
American Geophysical Union
The Geochemical Society
Sigma Xi

PUBLIC PRESENTATIONS AND INVITED TALKS (PAST FIVE YEARS)

1. “OSIRIS-REx - Status of NASA's Near-Earth Asteroid Sample Return Mission,” International Astronomical Union General Assembly, August 1, 2022
2. “OSIRIS-REx Sample Acquisition and Implications for the Nature of the Returned Sample from Asteroid (101955) Benu,” Goldschmidt Geochemistry Conference, Honolulu, HI, July 11, 2022
3. “OSIRIS-REx Samples of Near-Earth Asteroid (101955) Benu: Testing Theories of the Origin of Life,” Astrobiology Science Conference, Atlanta, GA, May 19, 2022
4. “What is Astrobiology”, Increasing Student Interest and Engagement in Space Exploration Conference, April 29, 2022
5. “Science and Humanities United – Why We Explore”, Arizona Junior Science and Humanities Symposium Keynote Speaker, March 18, 2022
6. “Asteroid Exploration at the University of Arizona”, Space Camp at Biosphere 2 Lecturer, February 17, 2022
7. “Astrobiology and Astroconsciousness: An illustrated discussion with UArizona professors Dante Laurretta and Stuart Hameroff”, Museum of Contemporary Art, Tucson, Arizona, December 9, 2021
8. “OSIRIS-REx: Updates and Expectations”, Planetary Science Symposium Physical Research Laboratory, Ahmedabad, India, November 30, 2021
9. “OSIRIS-REx Overview”, NASA Lucy Mission Science Team Meeting, October 14, 2021
10. “Calibration Challenges for NASA’s OSIRIS-REx Mission”, CalCon Keynote Speaker, Space Dynamics Laboratory, North Logan, Utah, September 1, 2021
11. An Evening with UArizona Leaders, February 25, 2021 | Virtual Zoom Meeting
12. University Fellows Colloquium Panel Discussion – Engaging with the Media, February 11, 2021
13. “To Benu and Back: NASA’s OSIRIS-REx Mission” Keck Institute for Space Studies/Caltech Virtual Talk, November 30, 2020
14. “To Benu and Back: NASA’s OSIRIS-REx Mission” Univeristy of Arizona Humanities Seminar Progra, November 20, 2020
15. “OSIRIS-REx at Asteroid Benu” Colloquium, Brown Univ, Providence, RI, March 4, 2020
16. “Comparing the B-type Asteroids Benu and Phaethon”, Japanese Aerospace Exploration Agency, DESTINY+ Mission Science Team Meeting, Chiba, Japan, October 10, 2019.
17. “Latest Results from the NASA OSIRIS-REx Asteroid Sample Return Mission”, Goddard Scientific Colloquium, NASA Goddard Space Flight Center, September 25, 2019
18. “OSIRIS-REx at Asteroid (101955) Benu: The Site Selection Campaign”, EPSC-DPS Joint Meeting 2019, September 17, 2019
19. “OSIRIS-REx – Exploration of Asteroid (101955) Benu”, Gordon Conference on the Origins of Solar Systems, June 24, 2019

20. “OSIRIS-REx – Exploration of Asteroid (101955) Benu”, NASA Goddard Space Flight Center 60th Anniversary celebration, May 2, 2019
21. “Solar System Exploration and the Future of Humanity”, University of Arizona, College of Humanities of the 21st Century, April 4, 2019
22. “Science and the Humanities: An Integrated Approach to Solar System Exploration”, University of Arizona, College of Humanities Seminars Program, February 19, 2019
23. “OSIRIS-REx Encounters Benu: Initial Assessment from the Approach Phase” Colloquium, University of Arizona, LPL, December 19, 2018
24. “NASA’s OSIRIS-REx Mission”, World Innovation Network, Chicago, IL – Sept. 25, 2018
25. “Stars Around Us” Intermountain Centers Fundraising Event, Tucson, AZ – May 3, 2018
26. “OSIRIS-REx and The Xtronaut: Live Space Exploration Through Board Games”, Yale Quantum Institute, March 29, 2018
27. “OSIRIS-REx: Sample Return from Asteroid Benu” Colloquium, University of British Columbia, Vancouver, BC, January 4, 2018
28. “Sample Analysis Needs for the OSIRIS-REx Mission”, NRC Committee on Extraterrestrial Sample Analysis Facilities, November 20, 2017
29. “Exploring the Universe: Science and Humanities United”, University of Arizona, College of Humanities Alumni of the Year Ceremony, October 27, 2017

SERVICE/OUTREACH (PAST FIVE YEARS)

OUTREACH PRESENTATIONS – LOCAL/STATE

1. ΦBK Honorary Society – Keynote Speaker – May 1, 2022
2. Sonoran Science Academy Mars Presentation – September 9, 2021
3. UArizona Honors NOW Event – April 6, 2021
4. An Evening with UArizona President R. C. Robbins – February 25, 2021
5. UArizona President's Advisory Council – February 23, 2021
6. Skygazers Astronomy Club – December 13, 2020
7. Sonoran Science Academy OSIRIS-REx Presentation – October 2, 2020
8. Lunar and Planetary Laboratory, Summer Science Saturday – August 1, 2020
9. Whipple Observatory, Green Valley, AZ – March 4, 2020
10. Southern Arizona Leadership Council, Tucson, AZ – January 15, 2020
11. University of Arizona, Honors College, Tucson, AZ – November 15, 2019
12. Teen Astronomy Cafe at National Optical Astronomy Observatory – May 4, 2019
13. College of Humanities Charrette, Tucson, AZ – April 4, 2019
14. SUnMaRC Conference, Tucson, AZ – March 30, 2019
15. University of Arizona, Molecular and Cellular Biology Club – February 26, 2019
16. UA College of Science Alumni Event, Washington, DC, December 9, 2018
17. Bennuval – Stories of Science and Space, Tucson, AZ, December 1, 2018
18. RinCon Gaming Convention, Tucson, AZ – September 29, 2018
19. Atria Bell Court Gardens, Tucson, AZ – May 30, 2018
20. OSIRIS-REx Night, Dillinger Brewing Co., Tucson, AZ – May 24, 2018
21. Stars Around Us Fundraiser, Intermountain Academy, Tucson, AZ – May 3, 2018
22. LPL Alumni Event, Ventana Canyon, Tucson, AZ – November 29, 2017

23. University of Arizona, Honors Dormitory, Tucson, AZ – October 3, 2017
24. University of Arizona, Flandrau Planetarium, Tucson, AZ, September 28, 2017
25. Arizona Technology Council, After-Hours Mixer, September 13, 2017
26. Boys and Girls Clubs of Metropolitan Phoenix, September 8, 2017

OUTREACH PRESENTATIONS – NATIONAL/INTERNATIONAL

1. Asteroid Mining Summer Program, MDA, Brampton, ON – May 24, 2022
2. Lockheed Martin, Littleton, CO – April 18, 2021
3. Motion Metrics Corporation, Vancouver, BC – April 9, 2021
4. NASA Small Bodies Assessment Group – January 25, 2021
5. NASA Small Bodies Assessment Group – June 1, 2020
6. Brown University Planetary Geology Class, Providence, RI – March 6, 2020
7. NASA Small Bodies Assessment Group – January 14, 2020
8. NASA Goddard Space Flight Center, Greenbelt, MD – September 24, 2019
9. Lockheed Martin, Littleton, CO – June 12, 2019
10. Boys and Girls Clubs of America Fund Raiser, Las Vega, NV – April 23, 2019
11. National Academy of Science, Committee on Astrobiology and Planetary Science, Washington, DC – March 25, 2019
12. NASA Small Bodies Assessment Group – January 29, 2019
13. Lockheed Martin, Littleton, CO – January 23, 2019
14. Boys and Girls Clubs of America Fundraising Campaign, 2018
15. Profs and Pints, Washington, DC, December 10, 2018
16. Creative Destruction Lab, Fireside Chat, Toronto, ON – June 7, 2018

DEPARTMENTAL COMMITTEES

Graduate Admissions and Advising Committee (2021 – present, Chair)
 Science and Technical Oversight Committee, Kuiper Materials Imaging Core Facility
 (2017 – present)
 LPL Awards Committee (2018 – 2022, Chair)
 LPL Faculty Recruitment and Search Committee (2017 – 2018, Chair)

UNIVERSITY OF ARIZONA COMMITTEES

College of Science Faculty Council (2022 – present)
 College of Humanities Deans Advisory Committee (2019 – present)
 Honors College Faculty Advisory Committee (2019 – 2022)
 Committee on Academic Freedom and Tenure (2013 – 2016; 2017 – 2020)

EXTRAMURAL – SESSIONS CHAIRED

50th Lunar and Planetary Science Conference (2019)
 49th Lunar and Planetary Science Conference (2018)
 American Astronautical Society – Guidance, Navigation, and Control Conference (2016)

EXTRAMURAL – PEER REVIEWER

Journals: *Science*, *Science Advances*, *Nature*, *Nature Communications*, *Meteoritics and Planetary Science*, *Geochimica et Cosmochimica Acta*, *Icarus*, *Earth and Planetary Science Letters*, *American Mineralogist*, *Journal of Atmospheric and Solar-Terrestrial Physics*, *Fuel*, *Transactions of the JSAS*

Cambridge University Press
University of Arizona Press
NASA Research Opportunities in Space and Earth Science (ROSES)
NSF: OCE International Support
Austrian Science Fund
Agence Nationale de la Recherche - France
The Marsden Fund - New Zealand Government
Swiss National Science Foundation
MacArthur Fellows Program
European Research Council Executive Agency
The UK's Strategic Science Investment Agency, Particle Physics and Astronomy
Research Council (PPARC)
The Leverhulme Trust, London, UK
Shota Rustaveli National Science Foundation of Georgia

EXTRAMURAL – OTHER

Science Advisory Board – United Launch Alliance (2022 – present)
Review Panel – United Arab Emirates MAX Mission (2022)
Organizing Committee – The Science of Consciousness Conference (2022)
Organizer and Chair – University of Arizona-University of Nairobi-Space Trust
Symposium (2021)
Chief Scientist – Peace Satellite Project, Space Trust (2020 – present)
Co-Investigator – ESA Hera Asteroid Mission (2020 – present)
Board of Directors, Boys and Girls Clubs of Tucson (2018 – 2022)
Co-Investigator – JAXA Hayabusa2 Asteroid Sample Return Mission (2013 – present)
Chief Scientist – Creative Destruction Lab, Space Track (2021)
Guest Editor, *Annual Reviews of Astronomy and Astrophysics*, Volume 56 (2018)
Consultant – Motion Metrics (2016 – 2018)
Science Advisory Board – Planetary Resources (2015 – 2018)

TEACHING & EDUCATIONAL ACTIVITIES

COURSES TAUGHT

S02 NATS 102: The Universe and Humanity, 3 credit hours, 160 students
F02 PTYS 510: Principles of Cosmochemistry, 3 credit hours, 12 students
S03 PTYS 195A: First Year Colloquium: Meteorites, 1 credit hour, 15 students
S03 PTYS 900: Team X – Spacecraft Mission Design, 3 credit hours, 9 students
F03 NATS 102: The Universe and Humanity, 3 credit hours, 160 students
S04 NATS 102: The Universe and Humanity, 3 credit hours, 72 students
F04 PTYS 510: Principles of Cosmochemistry, 3 credit hours, 18 students
F04 PTYS 195A: Asteroids, Comets, and Meteorites, 1 credit hour, 20 students
S05 PTYS 499/699: Team X – Spacecraft Mission Design, 3 credit hours, 8 students
F05 NATS 102: The Universe and Humanity, 3 credit hours, 160 students
S06 NATS 102: The Universe and Humanity, 3 credit hours, 86 students
F06 PTYS 510: Principles of Cosmochemistry, 3 credit hours, 14 students
S08 PHYS 498: Senior Capstone, 3 credit hours, 1 student
F08 PTYS 510: Principles of Cosmochemistry, 3 credit hours, 12 students

S09 PTYS 195A: Asteroids, Comets, and Meteorites, 1 credit hour, 20 students
F09 PTYS 407: Chemistry of the Solar System, 3 credit hours, 16 students
S17 PTYS 495/595: Special Topics – Spacecraft Mission Design and Implementation, 19 students
F17 PTYS 499/499H: Independent Study – Star and Planet Formation – 6 students
F18 HNRS 499H/EDL 396B: Gameful Learning and Community Outreach – 8 students
S19 HNRS 499H/EDL 396B: Gameful Learning and Community Outreach – 16 students
F19 HNRS 499H/EDL 396B: Gameful Learning and Community Outreach – 18 students
S20 EDL 396B: Gameful Learning and Community Outreach – 15 students
F20 EDL 396B: Gameful Learning and Community Outreach – 15 students
S21 PTYS 495B/595B: Special Topics – Spacecraft Mission Design and Implementation, 19 students
F21 PTYS 214: Astrobiology – A Planetary Perspective, 42 students
F22 PTYS 214: Life in the Cosmos, 85 students

CURRENT STAFF SCIENTISTS AND ENGINEERS

Carina Bennett (OSIRIS-REx SAMIS Project Manager and Software Engineer)
Anjani Polit (OSIRIS-REx Mission Implementation Systems Engineer)
Bashar Rizk (OSIRIS-REx Camera Suite Instrument Scientist)
Andrew Ryan (OSIRIS-REx Sample Physical and Thermal Properties Lead)
Cat Wolner (OSIRIS-REx Chief Editor)

CURRENT POSTDOCTORAL RESEARCH ASSOCIATES

CURRENT PH.D. STUDENTS

Yuhui "Harry" Tang (Ph.D.)
Kana Ishimaru (Ph.D.)

FORMER POSTDOCTORAL RESEARCH ASSOCIATES

Eric Palmer (Ph.D. 2009 – University of Arizona)
Jemma Davidson (Ph.D. 2009 – Open University)
Andrew Ryan (Ph.D., 2018 – Arizona State University)
Ronald Ballouz (Ph.D., 2018 – University of Maryland)

FORMER PH.D. STUDENTS

Fred Ciesla (Ph.D. 2003)
Matthew Pasek (Ph.D. 2006)
Jade Bond (Ph.D. 2008)
Eric Palmer (Ph.D. 2009)
Eve Berger (Ph.D. 2011)
Kathryn Gardner-Vandy (Ph.D., 2012)
Devin Schrader (Ph.D., 2012)
Kelly Miller (Ph.D., 2016)

FORMER M.S. STUDENTS

Celinda Marsh (M.S. 2007)

UNDERGRADUATE RESEARCH INTERNS

Frances McQueen (2002 – 2003)

Virginia Smith (2003 – 2004)

Alyssa La Blue (2003 – 2005)

Daniella DellaGiustina (2004 – 2009)

Devin Schrader (2005 – 2007)

Matthew Rodriguez (2006 – 2007)

Adria Brooks (2006 – 2008)

Courtney King (2008 – 2011)

Katrina Jackson (2008 – 2011)

Lujhendra Ohja (2009 – 2011)

Rachel Maxwell (2010 – 2011)

Jennifer Sterchio (2010 – 2011)

Ashley Nied (2015 – 2018)

Katherina Marchese (2016 – 2019)

Kerst Kingsbury (2018)

Jessica Forelli (2017 – 2020) – Honors Thesis Advisor

Collin Lewin (2017 – 2020) – Honors Thesis Advisor, Goldwater Fellow

Kana Ishimaru (2018) – summer intern from University of Tokyo

Lindsey Koelbel (2018 – 2021) – Brooke Owens Fellow

Sarah Graham (2019 – 2021) – Honors Thesis Advisor

Shae Henley (2021 – 2022)

Ruby Fulford (2021 – 2022) – Honors Thesis Advisor

Melissa Kontogiannis (2021 – present)

Sarah Nielsen (2022 – present)

GRANTS AND CONTRACTS – CURRENT

OSIRIS-REx Asteroid Sample Return Mission PI and Science Support – Phase-B/C/D/E

Role: Principal Investigator

Total Award: \$ 119.4M

Award Period: 12/16/2011 – 10/31/2023

Source: NASA MSFC New Frontiers Program Office – Contract NNM10AA11C

Annual Commitment (person months): 3

OSIRIS-APEX: An OSIRIS-REx Extended Mission to Apophis

Role: Emeritus Principal Investigator

Total Award: \$60M

Award Period: 11/01/2023 – 9/30/2021

Source: NASA MSFC New Frontiers Program Office

Annual Commitment (person months): 1

Nanoscale Secondary Ion Mass Spectrometer for Planetary Materials

Program: Gordon and Betty Moore Foundation

Role: Collaborator
Proposal period: 06/01/2020-05/31/2025, Award amount: \$2,400,000
Commitment level: 0 FTE, capital equipment

GRANTS AND CONTRACTS – PENDING

The Kuiper Materials Imaging and Characterization Facility at the University of Arizona
Role: Co-Investigator
Total Award: \$ 1.4M
Award Period: 10/1/2022 – 9/30/2026
Source: NASA Planetary Science Enabling Facilities

GRANTS AND CONTRACTS (PAST FIVE YEARS)

Application of Machine-learning Algorithms for On-board Asteroid Shape Model Determination and Spacecraft Navigation

Role: Principal Investigator
Total Award: \$397,700
Award Period: 01/15/2018 – 01/14/2020
Source: NASA NNH17ZOA001N-17STP_E1
Annual Commitment (person months): 1

Workshop on Asteroid Science in the Age of Hayabusa2 and OSIRIS-REx

Role: Principal Investigator
Total Award: \$48,000
Award Period: 07/01/2019 – 12/31/2019
Source: NASA 18-TWISC18-0052
Annual Commitment (person months): NA (workshop support)

Comet Astrobiology Exploration Sample Return (CAESAR)

Role: Co-Investigator
Total Award: \$38K
Award Period: 01/15/2018 – 06/01/2019
Source: NASA NNH16ZDA011O: New Frontiers 4, subcontract from Cornell University
Annual Commitment (person months): 1

PUBLICATIONS – BOARD GAMES

2022: Pisces: A High-Stakes Fishing Competition. Xtronaut Enterprises.

2020: Xtronaut 2.0. Xtronaut Enterprises.

2019: Downlink: The Game of Planetary Discovery. Xtronaut Enterprises.

2017: Constellations: The Game of Stargazing and the Night Sky. Xtronaut Enterprises.

2016: Xtronaut: The Game of Solar System Exploration. Xtronaut Enterprises.

PUBLICATIONS – BOOKS AND EDITED VOLUMES

2011: **D. S. Lauretta** (ed.) *Elements: An International Magazine of Mineralogy, Geochemistry, and Petrology*. Special Issue on Cosmochemistry, Volume 7, Number 1.

2010: D. Apai and **D. S. Lauretta** (eds.) *Protoplanetary Dust: Astrophysical and Cosmochemical Perspectives*. Cambridge University Press.

2006: **D. S. Lauretta** and H. Y. McSween (eds.) *Meteorites and the Early Solar System II*. University of Arizona Press, Tucson, AZ.

2005: **D. S. Lauretta** and M. Killgore. *A Color Atlas of Meteorites in Thin Section*. Golden Retriever Publications, Tucson, AZ and Southwest Meteorite Press, Payson, AZ.

2002: M. K. Crombie, C. T. Gholson, **D. S. Lauretta**, and E. B. Melchiorre. *Rich Hill: The History of Arizona's Most Amazing Gold District*. Golden Retriever Publications, Tucson, AZ.

PUBLICATIONS – PEER-REVIEWED JOURNALS

2022:

247. Lauretta, D. S., et al. "Spacecraft sample collection and subsurface excavation of asteroid (101955) Benu." *Science* (2022): eabm1018.

246. Michel, Patrick, et al. "The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos." *The Planetary Science Journal* 3.7 (2022): 160.

245. Walsh, K. J., et al. "Near-zero cohesion and loose packing of Benu's near subsurface revealed by spacecraft contact." *Science Advances* 8.27 (2022): eabm6229.

244. Rozitis, B., et al. "High-Resolution Thermophysical Analysis of the OSIRIS-REx Sample Site and Three Other Regions of Interest on Benu." *Journal of Geophysical Research: Planets* (2022): e2021JE007153.

243. Yokoyama, T., et al. "Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites." *Science* (2022): eabn7850.

242. Perry, M. E., et al. "Low surface strength of the asteroid Benu inferred from impact ejecta deposit." *Nature Geoscience* (2022): 1-6.

241. Delbo, M., et al. "Alignment of fractures on Bennu's boulders indicative of rapid asteroid surface evolution." *Nature Geoscience* (2022): 1-5.
240. Norman, C. D., et al. "Autonomous Navigation Performance Using Natural Feature Tracking during the OSIRIS-REx Touch-and-Go Sample Collection Event." *The Planetary Science Journal* 3.5 (2022): 101.
239. Weirich, J., et al. "Quality Assessment of Stereophotoclinometry as a Shape Modeling Method Using a Synthetic Asteroid." *The Planetary Science Journal* 3.5 (2022): 103.
238. Palmer, E. E., et al. "Practical Stereophotoclinometry for Modeling Shape and Topography on Planetary Missions." *The Planetary Science Journal* 3.5 (2022): 102.
237. Olds, R. D., et al. "The use of digital terrain models for natural feature tracking at asteroid Bennu." *The Planetary Science Journal* 3.5 (2022): 100.
236. Mario, C. E., et al. "Ground Testing of Digital Terrain Models to Prepare for OSIRIS-REx Autonomous Vision Navigation Using Natural Feature Tracking." *The Planetary Science Journal* 3.5 (2022): 104.
235. Walsh, K. J., et al. "Assessing the Sampleability of Bennu's Surface for the OSIRIS-REx Asteroid Sample Return Mission." *Space Science Reviews* 218.4 (2022): 1-34.
234. Bierhaus, E. B., et al. "Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface." *Nature Geoscience* (2022): 1-7.
233. Barnouin, O. S., et al. "Geologic Context of the OSIRIS-REx Sample Site from High-resolution Topography and Imaging." *The Planetary Science Journal* 3.4 (2022): 75.
232. Barnouin, O. S., et al. "The Formation of Terraces on Asteroid (101955) Bennu." *Journal of Geophysical Research: Planets* (2022): e2021JE006927.
231. Jawin, E. R., et al. "Global geologic map of asteroid (101955) Bennu indicates heterogeneous resurfacing in the past 500,000 years." *Icarus* (2022): 114992.
230. Tachibana, S., et al. "Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth." *Science* 375.6584 (2022): 1011-1016.
229. Golish, D. R., et al. "Cross-Instrument Comparison of MapCam and OVIRS on OSIRIS-REx." *Space Science Reviews* 218.2 (2022): 1-25.
228. Sutter, B. et al. "OSIRIS-REx Extended Mission Trajectory Design & Target Search." In *AIAA SCITECH 2022 Forum*, p. 2469. 2022.

227. Mario, C. et al. "Development and Flight Performance of the Autonomous Navigation Feature Catalog for OSIRIS-REx Asteroid Sample Collection." In *AIAA SCITECH 2022 Forum*, p. 0357. 2022.
226. McCarthy, L. K. et al. "OSIRIS-REx Landmark Optical Navigation Performance During Orbital and Close Proximity Operations at Asteroid Benu." In *AIAA SCITECH 2022 Forum*, p. 2520. 2022.
225. Sahr, E. et al. "OSIRIS-REx Pointing Performance." In *AIAA SCITECH 2022 Forum*, p. 2519. 2022.
224. Leonard, J. M. et al. "Navigation Prediction Performance During the OSIRIS-REx Proximity Operations at (101955) Benu." In *AIAA SCITECH 2022 Forum*, p. 2389. 2022.
223. Scheeres, D. J. et al. "The Dynamics about Asteroid (101955) Benu." In *AIAA SCITECH 2022 Forum*, p. 2468. 2022.
222. Getzandanner, K. M. et al. "Small Body Proximity Operations & TAG: Navigation Experiences & Lessons Learned from the OSIRIS-REx Mission." In *AIAA SCITECH 2022 Forum*, p. 2387. 2022.
221. Berry, K. et al. "Contact with Benu! Flight Performance Versus Prediction of OSIRIS-REx "TAG" Sample Collection." In *AIAA SCITECH 2022 Forum*, p. 2521. 2022.
220. Antreasian, P. G. et al. "OSIRIS-REx Proximity Operations and Navigation Performance at Benu." In *AIAA SCITECH 2022 Forum*, p. 2470. 2022.
219. Adam, C. D. et al. "Concept of Operations for OSIRIS-REx Optical Navigation Image Planning." In *AIAA SCITECH 2022 Forum*, p. 1569. 2022.
218. Wibben, D. et al. "OSIRIS-REx Orbit Trim Strategy." In *AIAA SCITECH 2022 Forum*, p. 2471. 2022.
- 2021:**
- 217. Lauretta, D. S.** et al. OSIRIS-REx at Benu: Overcoming challenges to collect a sample of the early Solar System. In *Sample Return Missions*, Longobardo, A., Ed. (Elsevier), doi:10.1016/C2018-0-03374-5.
216. Tatsumi, E. et al. "Widely distributed exogenic materials of varying compositions and morphologies on asteroid (101955) Benu." *Monthly Notices of the Royal Astronomical Society* 508, no. 2 (2021): 2053-2070.
215. Kaplan, H. H. et al. "Composition of organics on asteroid (101955) Benu." *Astronomy & Astrophysics* 653 (2021): L1.

214. Hong, J. et al. "Calibration and Performance of the REgolith X-Ray Imaging Spectrometer (REXIS) Aboard NASA's OSIRIS-REx Mission to Bennu." *Space Science Reviews* 217, no. 8 (2021): 1-30.
213. Goossens, S. et al. "Mass and shape determination of (101955) bennu using differenced data from multiple OSIRIS-REx mission phases." *The Planetary Science Journal* 2, no. 6 (2021): 219.
212. Golish, D. R. et al. "Regional Photometric Modeling of Asteroid (101955) Bennu." *The Planetary Science Journal* 2, no. 4 (2021): 124.
211. Farnocchia, D. et al. "Ephemeris and hazard assessment for near-Earth asteroid (101955) Bennu based on OSIRIS-REx data." *Icarus* 369 (2021): 114594.
210. Cambioni, S. et al. "Fine-regolith production on asteroids controlled by rock porosity." *Nature* 598, no. 7879 (2021): 49-52.
209. Breitenfeld, L. B. et al. "Machine Learning Mid-Infrared Spectral Models for Predicting Modal Mineralogy of CI/CM Chondritic Asteroids and Bennu." *Journal of Geophysical Research: Planets* 126, no. 12 (2021): e2021JE007035.
208. Ballouz, R.-L. et al. "Modified granular impact force laws for the OSIRIS-REx touchdown on the surface of asteroid (101955) Bennu." *Earth and Space Science Open Archive ESSOAr*
207. Sen, A. et al. Spectral effects of varying texture and composition in two-component "mudpie" simulations: Insights for Asteroid (101955) Bennu. MAPS doi:10.1111/maps.13699.
206. Ferrone, S. M. et al. Visible–near-infrared observations of organics and carbonates on (101955) Bennu: Classification method and search for surface context. *Icarus* doi:10.1016/j.icarus.2021.114579
205. Li, J.-Y. et al. Spectrophotometric Modeling and Mapping of (101955) Bennu. PSJ doi:10.3847/PSJ/abfd2d
204. Roberts, J. H. et al. Rotational states and shapes of Ryugu and Bennu: Implications for interior structure and strength. PSS doi:10.1016/j.pss.2021.105268
203. Simon, A. A. et al. Derivation of the final OSIRIS-REx OVIRS in-flight radiometric calibration. JATIS doi:10.1117/1.JATIS.7.2.020501
202. Tricarico, P. et al. Internal rubble properties of asteroid (101955) Bennu. *Icarus* 370 (2021): 114665.
201. Hamilton, V. E. et al. Evidence for limited compositional and particle size variation on asteroid (101955) Bennu from thermal infrared spectroscopy. *A&A* doi:10.1051/0004-6361/202039728

200. Merlin, F. et al. In search of Bennu analogs: Hapke modeling of meteorite mixtures. *Astron. Astrophys.* doi:10.1051/0004-6361/202140343
199. Burke, K. N. et al., Particle size-frequency distributions of the OSIRIS-REx candidate sample sites on asteroid (101955) Bennu. *Remote Sens.* doi:10.3390/rs13071315
198. Al Asad, M. M. et al. "Validation of Stereophotoclinometric Shape Models of Asteroid (101955) Bennu during the OSIRIS-REx Mission." *The Planetary Science Journal* 2.2 (2021): 82.
197. Le Corre, L. et al. Characterization of Exogenic Boulders on the Near-Earth Asteroid (101955) Bennu from OSIRIS-REx Color Images. *PSJ* doi:10.3847/PSJ/abfbe2
196. Jenniskens, P. et al. "Meteor showers from known long-period comets." *Icarus* (2021): 114469.
195. Rizos, J. L. et al. "Bennu's global surface and two candidate sample sites characterized by spectral clustering of OSIRIS-REx multispectral images." *Icarus* (2021): 114467.
194. Trang, D. et al. "The Role of Hydrated Minerals and Space Weathering Products in the Bluing of Carbonaceous Asteroids." *The Planetary Science Journal* 2.2 (2021): 68.
193. Hanna, K. L. D. et al. "Spectral characterization of Bennu analogs using PASCAL: A new experimental set-up for simulating the near-surface conditions of airless bodies." *Journal of Geophysical Research. Planets* 126.2 (2021).
192. Ferrone, S. M. et al. "Analysis of Projection Effects in OSIRIS-REx Spectral Mapping Methods: Recommended Protocols for Facet-Based Mapping." *Earth and Space Science* 8.3 (2021): e2020EA000613.
191. Praet, A. et al. "Hydrogen abundance estimation and distribution on (101955) Bennu." *Icarus* 363 (2021): 114427.
190. Golish, D. R. et al. "Disk-resolved photometric modeling and properties of asteroid (101955) Bennu." *Icarus* 357 (2021): 113724.
189. Bierhaus, E. B. et al. "Bennu regolith mobilized by TAGSAM: Expectations for the OSIRIS-REx sample collection event and application to understanding naturally ejected particles." *Icarus* 355 (2021): 114142.
188. Golish, D. R. et al. "A high-resolution normal albedo map of asteroid (101955) Bennu." *Icarus* 355 (2021): 114133.
187. Melikyan, R. E. et al. "Bennu's Natural Sample Delivery Mechanism: Estimating the Flux of Bennuid Meteors at Earth." *Earth and Space Science Open Archive ESSOAr* (2021).

186. Deshapriya, J. D. P. et al. "Spectral analysis of craters on (101955) Bennu." *Icarus* 357 (2021): 114252.

185. Zou, X-D. et al. "Photometry of asteroid (101955) Bennu with OVIRS on OSIRIS-REx." *Icarus* 358 (2021): 114183.

184. Hasselmann, P. H. et al. "Modeling optical roughness and first-order scattering processes from OSIRIS-REx color images of the rough surface of asteroid (101955) Bennu." *Icarus* (2021): 114106.

183. Bennett, C. A. et al. "A high-resolution global basemap of (101955) Bennu." *Icarus* 357 (2021): 113690.

182. DellaGiustina, D. N. et al. "Exogenic basalt on asteroid (101955) Bennu." *Nature Astronomy* 5.1 (2021): 31-38.

181. Glavin, D. P. et al. "Extraterrestrial amino acids and L-enantiomeric excesses in the CM 2 carbonaceous chondrites Aguas Zarcas and Murchison." *Meteoritics & Planetary Science* 56.1 (2021): 148-173.

2020:

180. Bottke, W. F. et al., Meteoroid Impacts as a Source of Bennu's Particle Ejection Events, *JGR Planets* doi:10.1029/2019JE006282

179. Molaro, J. L. et al., Thermal fatigue as a driving mechanism for activity on asteroid Bennu, *JGR Planets* doi:10.1029/2019JE006325

178. Edmundson, K. L. et al., Photogrammetric Processing OF OSIRIS-REX Images of Asteroid (101955) Bennu, *ISPRS Annals*, doi:10.5194/isprs-annals-V-3-2020-587-2020

177. Wibben, D. et al. Trajectory Design and Maneuver Performance of the OSIRIS-REx Detailed Survey Of Bennu. *Guidance, Navigation, and Control 2020 (Proceedings of the 43rd Annual AAS GNC Conference, Breckenridge, CO)*, AAS 20-151.

176. Miller, C. et al. On Orbit Evaluation Of Natural Feature Tracking For Osiris-Rex Sample Collection. *Guidance, Navigation, and Control 2020 (Proceedings of the 43rd Annual AAS GNC Conference, Breckenridge, CO)*, AAS 20-154.

175. Mario, C. et al. Image Correlation Performance Prediction for Autonomous Navigation of OSIRIS-REx Asteroid Sample Collection. *Guidance, Navigation, and Control 2020 (Proceedings of the 43rd Annual AAS GNC Conference, Breckenridge, CO)*, AAS 20-087.

174. Leonard, J. M. et al., OSIRIS-REx Shape Model Performance during the Navigation Campaign. *Guidance, Navigation, and Control 2020 (Proceedings of the 43rd Annual AAS GNC Conference, Breckenridge, CO)*, AAS 20-153.

173. Church, E. et al. Flash Lidar On-Orbit Performance At Asteroid Benu. Guidance, Navigation, and Control 2020 (Proceedings of the 43rd Annual AAS GNC Conference, Breckenridge, CO), AAS 20-148.
172. Daly, R. T. et al. "The morphometry of impact craters on Benu." *Geophysical Research Letters* 47.24 (2020): e2020GL089672.
171. Simon, A. A. et al. "Weak spectral features on (101995) Benu from the OSIRIS-REx Visible and InfraRed Spectrometer." *Astronomy and Astrophysics* 644 (2020): A148.
170. Fornasier, S. et al. "Phase reddening on asteroid Benu from visible and near-infrared spectroscopy." *Astronomy & Astrophysics* 644 (2020): A142.
169. Roberts, J. et al. "Coupled shape and spin evolution of Benu due to the YORP effect." (2020).
168. Craft, K. L. et al. "Assessing stereophotoclinometry by modeling a physical wall representing asteroid Benu." *Planetary and Space Science* 193 (2020): 105077.
167. Simon, A. A. et al. "Widespread carbon-bearing materials on near-Earth asteroid (101955) Benu." *Science* 370.6517 (2020).
166. Kaplan, H. H. et al. "Bright carbonate veins on asteroid (101955) Benu: Implications for aqueous alteration history." *Science* 370.6517 (2020).
165. DellaGiustina, D. N. et al. "Variations in color and reflectance on the surface of asteroid (101955) Benu." *Science* 370.6517 (2020).
164. Ballouz, R-L. et al. "Benu's near-Earth lifetime of 1.75 million years inferred from craters on its boulders." *Nature* 587.7833 (2020): 205-209.
163. Daly, M. G. et al. "Hemispherical differences in the shape and topography of asteroid (101955) Benu." *Science Advances* 6.41 (2020): eabd3649.
162. Rozitis, B. et al. "Asteroid (101955) Benu's weak boulders and thermally anomalous equator." *Science Advances* 6.41 (2020): eabc3699.
161. Scheeres, D. J. et al. "Heterogeneous mass distribution of the rubble-pile asteroid (101955) Benu." *Science Advances* 6.41 (2020): eabc3350.
160. Jawin, E. R. et al. "Global patterns of recent mass movement on asteroid (101955) Benu." *Journal of Geophysical Research: Planets* 125.9 (2020): e2020JE006475.

159. Hergenrother, C. W. et al. "Introduction to the special issue: exploration of the activity of asteroid (101955) Bennu." *Journal of Geophysical Research: Planets* 125.9 (2020): e2020JE006549.
158. Leonard, J. M. et al. "Initial orbit determination and event reconstruction from estimation of particle trajectories about (101955) Bennu." *Earth and Space Science* 7.9 (2020): e2019EA000937.
157. Hergenrother, C. W. et al. "Photometry of particles ejected from active asteroid (101955) Bennu." *Journal of Geophysical Research: Planets* 125.9 (2020): e2020JE006381.
156. Chesley, S. R. et al. "Trajectory estimation for particles observed in the vicinity of (101955) Bennu." *Journal of Geophysical Research: Planets* 125.9 (2020): e2019JE006363.
155. McMahon, J. W. et al. "Dynamical evolution of simulated particles ejected from asteroid Bennu." *Journal of Geophysical Research: Planets* 125.8 (2020): e2019JE006229.
154. Pelgrift, J. Y. et al. "Reconstruction of Bennu particle events from sparse data." *Earth and Space Science* 7.8 (2020): e2019EA000938.
153. Rozitis, B. et al. "Implications for ice stability and particle ejection from high-resolution temperature modeling of asteroid (101955) Bennu." *Journal of Geophysical Research: Planets* 125.8 (2020): e2019JE006323.
152. Liounis, A. J. et al. "Autonomous detection of particles and tracks in optical images." *Earth and Space Science* 7.8 (2020): e2019EA000843.
151. Hirabayashi, M. et al. "Spin-driven evolution of asteroids' top-shapes at fast and slow spins seen from (101955) Bennu and (162173) Ryugu." *Icarus* (2020): 113946.
150. Aponte, J. C. et al. "Extraterrestrial organic compounds and cyanide in the CM2 carbonaceous chondrites Aguas Zarcas and Murchison." *Meteoritics & Planetary Science* (2020).
149. Bottke, W. F. et al. "Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids." *The Astronomical Journal* 160.1 (2020): 14.
148. Molaro, J. L. et al. "In situ evidence of thermally induced rock breakdown widespread on Bennu's surface." *Nature Communications* 11.1 (2020): 1-11.
147. Bos, B. J. et al. "In-Flight Calibration and Performance of the OSIRIS-REx Touch And Go Camera System (TAGCAMS)." *Space Science Reviews* 216.4 (2020): 1-52.
146. Kaplan, H. H. et al. "Visible–near infrared spectral indices for mapping mineralogy and chemistry with OSIRIS-REx." *Meteoritics & Planetary Science* 55.4 (2020): 744-765.

145. Michel, P. et al. "Collisional formation of top-shaped asteroids and implications for the origins of Ryugu and Bennu." *Nature Communications* 11, no. 1 (2020): 1-11.
144. Barucci, M. A. et al. "OSIRIS-REx spectral analysis of (101955) Bennu by multivariate statistics." *Astronomy & Astrophysics* 637 (2020): L4.
143. Golish, D. R. et al. "Disk-resolved photometric modeling and properties of asteroid (101955) Bennu." *Icarus* (2020): 113724.
142. Scheeres, D. J. et al. "Particle Ejection Contributions to the Rotational Acceleration and Orbit Evolution of Asteroid (101955) Bennu." *Journal of Geophysical Research: Planets* 125, no. 3 (2020): e2019JE006284.
141. Golish, D. R. et al. "Ground and in-flight calibration of the OSIRIS-REx camera suite." *Space Science Reviews* 216, no. 1 (2020): 12.
140. Regberg, A. B. et al. "Prokaryotic and Fungal Characterization of the Facilities Used to Assemble, Test, and Launch the OSIRIS-REx Spacecraft." *Frontiers in microbiology* 11 (2020).
139. Allen, B. et al. "Detection of MAXI J0637-430 by the Regolith X-Ray Imaging Spectrometer (REXIS) Onboard OSIRIS-REx." *The Astronomer's Telegram* 13594 (2020): 1.
138. Berry, K. et al. Revisiting OSIRIS-REx Touch-And-Go (TAG) Performance Given the Realities of Asteroid Bennu. Guidance, Navigation, and Control 2020 (Proceedings of the 43rd Annual AAS GNC Conference, Breckenridge, CO), AAS 20-088.
137. Liounis, A. J. et al. "Autonomous detection of particles and tracks in optical images." *arXiv preprint arXiv:1911.04449*.
136. Sandford, S. A. et al. "Outgassing from the OSIRIS-REx Sample Return Capsule: Characterization and Mitigation." *Acta Astronautica* (2020).
135. Barnouin, O. S. et al. "Digital terrain mapping by the OSIRIS-REx mission." *Planetary and Space Science* (2020): 104764.
- 2019:**
- 134. Lauretta, D. S.,** C. W. Hergenrother et al. "Episodes of particle ejection from the surface of the active asteroid (101955) Bennu." *Science* 366, no. 6470 (2019).
- 133. Lauretta, D. S.,** D. N. DellaGiustina et al. (2019) The unexpected surface of asteroid (101955) Bennu. *Nature* 568, 55–60.
132. Doelling, D. et al. "Inter-Calibration of the OSIRIS-REx NavCams with Earth-Viewing Imagers." *Remote Sensing* 11, no. 22 (2019): 2717.

131. Liounis, A. et al. "Independent Optical Navigation Processing for the Osiris-Rex Mission Using the Goddard Image Analysis and Navigation Tool." *2nd RPI Space Imaging Workshop*; October 28, 2019 - October 30, 2019; Saratoga Springs, NY; United States .
130. Lyzhof, J. R. et al. "Template Matching Used for Small Body Optical Navigation with Poorly Detailed Objects." (2019).
129. Adam, C. D. et al. "Transition from Centroid-Based to Landmark-Based Optical Navigation During OSIRIS-REx Navigation Campaign at Asteroid Bennu." *2nd RPI Space Imaging Workshop*; October 28, 2019 - October 30, 2019; Saratoga Springs, NY; United States.
128. Gnam, C. et al. "A Novel Surface Feature Navigation Algorithm Using Ray Tracing." *2nd RPI Space Imaging Workshop*; October 28, 2019 - October 30, 2019; Saratoga Springs, NY; United States.
127. Getzandanner, K. M. et al. "The Image Constraint Measurement Type for Orbit Determination & Geophysical Parameter Estimation." (2019).
126. Choi, M. K. et al. (2019). Successful Use of Microporous Polytetrafluoroethylene Flexible Thin Sheets in NASA's OSIRIS-REx Mission. In *AIAA Propulsion and Energy 2019 Forum* (p. 3966).
125. Leonard, J. M. et al. (2019). OSIRIS-REx Orbit Determination Performance During the Navigation Campaign. *2019 AAS/AIAA Astrodynamics Specialist Conference*; August 11, 2019 - August 15, 2019; Portland, ME; United States
124. DellaGiustina, D. N. et al. (2019). The Fukang pallasite: Characterization and implications for the history of the Main-group parent body. *Meteoritics & Planetary Science*, 54(8), 1781-1807.
123. Seabrook, J. A. et al. (2019). Global shape modeling using the OSIRIS-REx scanning Laser Altimeter. *Planetary and Space Science*, 104688.
122. Simon, A. A. et al. "OSIRIS-REx visible and near-infrared observations of the Moon." *Geophysical Research Letters* 46, no. 12 (2019): 6322-6326.
121. Seabrook, J. A. et al. "Global shape modeling using the OSIRIS-REx scanning Laser Altimeter." *Planetary and Space Science* (2019).
120. Scheeres, D. J. et al. "Comparing the Estimated Dynamical Environments and Mass Distributions of Bennu and Ryugu." *Spectroscopy* 364 (2019): 272-275.
119. Hergenrother, C. W. et al. (2019) The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. *Nature Communications* 10, Article number: 1291

118. DellaGiustina, D. N. et al. (2019) Properties of rubble-pile asteroid (101955) Benu from OSIRIS-REx imaging and thermal analysis. *Nature Astronomy* 3, 341–351.
117. Hamilton, V. E. et al. (2019) Evidence for widespread hydrated minerals on asteroid (101955) Benu. *Nature Astronomy* 3, 332–340.
116. Scheeres, D. J. et al. (2019) The dynamic geophysical environment of (101955) Benu based on OSIRIS-REx measurements. *Nature Astronomy* 3, 352–361
115. Walsh, K. J. et al. (2019) Craters, boulders and regolith of (101955) Benu indicative of an old and dynamic surface. *Nature Geoscience* 12, 242–246.
114. Barnouin, O. S. et al. (2019) Shape of (101955) Benu indicative of a rubble pile with internal stiffness. *Nature Geoscience* 12, 247–252.
113. Enos, H. L. and D. S. Lauretta (2019). A rendezvous with asteroid Benu. *Nature Astronomy*, 3(4), 363.
112. Rizos, J. L. et al. (2019). Spectral clustering tools applied to Ceres in preparation for OSIRIS-REx color imaging of asteroid (101955) Benu. *Icarus*.
111. Springmann, A. et al. (2019). Thermal alteration of labile elements in carbonaceous chondrites. *Icarus*, 324, 104-119.
110. Susorney, H. C. et al. (2019). The global surface roughness of 25143 Itokawa. *Icarus*, 325, 141-152.
109. Nolan, M. C. et al. "Detection of Rotational Acceleration of Benu using HST Lightcurve Observations." *Geophysical Research Letters* (2019).
108. Hanna, K. L. D. et al. "Spectral characterization of analog samples in anticipation of OSIRIS-REx's arrival at Benu: A blind test study." *Icarus* 319 (2019): 701-723.
107. Forelli, J. et al. "OSIRIS-REx Target Asteroids! Photometry of Near-Earth Asteroid (276049) 2002 CE26." *Minor Planet Bulletin* 46 (2019): 63-65.
106. Rizk, B. et al. "OSIRIS-REx low-velocity particles during outbound cruise." *Advances in Space Research* 63, no. 1 (2019): 672-691.

2018:

105. Karetta, T. et al. "Rotationally Resolved Spectroscopic Characterization of Near-Earth Object (3200) Phaethon." *The Astronomical Journal* 156, no. 6 (2018): 287.

104. DellaGiustina, D. N. et al. "Overcoming the Challenges Associated with Image-Based Mapping of Small Bodies in Preparation for the OSIRIS-REx Mission to (101955) Benu." *Earth and Space Science* (2018).
103. Bierhaus, E. B. et al. "The OSIRIS-REx Spacecraft and the Touch-and-Go Sample Acquisition Mechanism (TAGSAM)." *Space Science Reviews* 214, no. 7 (2018): 107.
102. Simon, A. A. et al. "In-Flight Calibration and Performance of the OSIRIS-REx Visible and IR Spectrometer (OVIRS)." *Remote Sensing* 10, no. 9 (2018): 1486.
101. Christensen, P. R. et al. "The OSIRIS-REx thermal emission spectrometer (OTES) instrument." *Space Science Reviews* 214, no. 5 (2018): 87.
100. de León, J. et al. 2018. Expected spectral characteristics of (101955) Benu and (162173) Ryugu, targets of the OSIRIS-REx and Hayabusa2 missions. *Icarus*, 313, pp.25-37.
99. Williams, B. et al., 2018. OSIRIS-REx flight dynamics and navigation design. *Space Science Reviews*, 214(4), p.69.
98. Rizk, B. et al. "OCAMS: the OSIRIS-REx camera suite." *Space Science Reviews* 214, no. 1 (2018): 26.
97. Bos, B. J. et al. "Touch and Go Camera System (TAGCAMS) for the OSIRIS-REx asteroid sample return mission." *Space Science Reviews* 214, no. 1 (2018): 37.
96. McMahon, J. W. et al. "The OSIRIS-REx radio science experiment at Benu." *Space Science Reviews* 214, no. 1 (2018): 43.
95. Masterson, R. A. et al. "Regolith X-Ray Imaging Spectrometer (REXIS) Aboard the OSIRIS-REx Asteroid Sample Return Mission." *Space Science Reviews* 214, no. 1 (2018): 48.
94. Reuter, D. C. et al. "The OSIRIS-REx visible and infrared spectrometer (OVIRS): spectral maps of the asteroid Benu." *Space Science Reviews* 214, no. 2 (2018): 54.
93. Dworkin, J. P. et al. "OSIRIS-REx Contamination Control Strategy and Implementation." *Space Science Reviews* 214, no. 1 (2018): 19.
92. Schrader, D. L. et al. "The retention of dust in protoplanetary disks: Evidence from agglomeratic olivine chondrules from the outer Solar System." *Geochimica et Cosmochimica Acta* 223 (2018): 405-421.

2017:

- 91. Lauretta, D. S.** et al. OSIRIS-REx: Sample Return from Asteroid (101955) Benu. *Space Science Reviews* 212, pp 925–984. <https://doi.org/10.1007/s11214-017-0405-1>

- 90. Lauretta, D. S.** "OSIRIS-REx: The Journey to Asteroid Bennu and Back." *Elements: An International Magazine of Mineralogy, Geochemistry, and Petrology* 13, no. 3 (2017): 212.
89. Gainsforth, Z. et al. "Insights into solar nebula formation of pyrrhotite from nanoscale disequilibrium phases produced by H₂S sulfidation of Fe metal." *American Mineralogist* **102**, no. 9 (2017): 1881-1893.
88. Daly, M. G. et al. "The OSIRIS-REx Laser Altimeter (OLA) Investigation and Instrument." *Space Science Reviews* (2017): 1-26.
87. Miller, K. E. et al. "Formation of unequilibrated R chondrite chondrules and opaque phases." *Geochimica et Cosmochimica Acta* 209 (2017): 24-50.
86. Melchiorre, E. B. et al. "Climate-induced geochemical and morphological evolution of placer gold deposits at Rich Hill, Arizona, USA." *Geological Society of America Bulletin* 129, no. 1-2 (2017): 193-202.
- 2016:**
- 85. Lauretta, D. S.** The Seven-Year Mission to Fetch 60 Grams of Asteroid. *Scientific American* **315**, 62-69.
84. Andronikov, A. V. et al. 2016. Implications from chemical, structural and mineralogical studies of magnetic microspherules from around the lower younger dryas boundary (New Mexico, Usa). *Geografiska Annaler: Series A, Physical Geography*.
83. Berger, E. L. et al. 2016. Heterogeneous histories of Ni-bearing pyrrhotite and pentlandite grains in the CI chondrites Orgueil and Alais. *Meteoritics & Planetary Science*, **51**(10), pp.1813-1829.
82. Melchiorre, E. B. et al. "Climate-induced geochemical and morphological evolution of placer gold deposits at Rich Hill, Arizona, USA." *Geological Society of America Bulletin* (2016): B31522-1.
81. Scheeres, D. J. et al. 2016. The geophysical environment of Bennu. *Icarus*, **276**, 116-140.
- 2015:**
- 80. Lauretta, D. S.** et al. The OSIRIS-REx Target Asteroid 101955 Bennu: Constraints on its Physical, Geological, and Dynamical Nature from Astronomical Observations. *Meteoritics and Planetary Science* **50**, 834-849.
- 79. Lauretta, D. S.** OSIRIS-REx Asteroid Sample-Return Mission. J.N. Pelton, F. Allahdadi (eds.), Handbook of Cosmic Hazards and Planetary Defense, DOI 10.1007/978-3-319-03952-7_44.
78. Andronikov, A. V. et al. (2015). Geochemical evidence of the presence of volcanic and meteoritic materials in Late Pleistocene lake sediments of Lithuania. *Quaternary International*, 386, 18-29.
77. Berger, E. L. et al. An experimental study of the formation of cubanite (CuFe₂S₃) in primitive meteorites. *Meteoritics & Planetary Science* **50**, 1-14.
76. Binzel, R. P. et al. "Spectral slope variations for OSIRIS-REx target Asteroid (101955) Bennu: Possible evidence for a fine-grained regolith equatorial ridge." *Icarus* 256 (2015): 22-29.

75. Bottke, W. F. et al. In Search of the Source of Asteroid (101955) Bennu: Applications of the Stochastic YORP Model. *Icarus* **247**, 191-217.

74. Burton, A. S. et al." *Meteoritics & Planetary Science* (2015).

73. Connolly Jr., H. C. et al. Towards Understanding the Dynamical Evolution of Asteroid 25143 Itokawa: Constraints from Sample Analysis. *Earth, Planets and Space* **67**, 12

72. Schrader, D. L. et al. (2014). The formation and alteration of the Renazzo-like carbonaceous chondrites III: Towards understanding the genesis of ferromagnesian chondrules. *Meteoritics and Planetary Science* **50**, 15-50.

71. Takir, D. et al. Photometric Models of Disk-Integrated Observations of the OSIRIS-REx Target Asteroid (101955) Bennu. *Icarus*, 2015.

2014:

70. Andronikov, A. V. et al. In search for fingerprints of an extraterrestrial event: Trace element characteristics of sediments from the Lake Medvedevskoye (Karelian Isthmus, Russia). *Doklady Akademii Nauk* **457**, 69 - 73.

69. Andronikov, A. V. et al. 2014. Geochemical signatures of a possible Late Pleistocene extraterrestrial event in paleolimnological “records” of Europe. “Paleolimnology of Northern Eurasia” Proceedings of the International Conference, Petrozavodsk, pp. 62-64.

68. Chesley, S. R. et al. (2014). Orbit and bulk density of the OSIRIS-REx target asteroid (101955) Bennu. *Icarus* **235**, 5-22.

67. Davidson, J. et al. (2014) Petrography, stable isotope compositions, micro-Raman spectroscopy and presolar components of RBT 04133: A reduced CV3 carbonaceous chondrite. *Meteoritics and Planetary Science* **49**.

66. Davidson, J. et al. (2014) Oxygen- Isotope and Chemical Compositions of Magnetite and Olivine in the Anomalous CK3 Watson 002 and Ungrouped Asuka 881595 Carbonaceous Chondrites: Effects of Parent Body Metamorphism. *Meteoritics and Planetary Science* **49**, 1456–1474.

65. Emery, J. P. et al. (2014). Thermal Infrared Observations and Thermophysical Characterization of OSIRIS-REx Target Asteroid (101955) Bennu. *Icarus* **234**, 17-35.

64. Hergenrother, C. W. et al. The Design Reference Asteroid for the OSIRIS-REx Mission Target (101955) Bennu. *arXiv preprint* arXiv:1409.4704.

63. Zack W. et al. Stone procurement and transport at the late Early Pleistocene site of Cueva Negra del Estrecho del Rio Quípar (Murcia, SE Spain). *Quartär* **60**, 7-28.

2013:

62. K. G. Gardner-Vandy, **D. S. Lauretta**, T. J. McCoy. A Petrologic, Thermodynamic and Experimental Study of Brachinites: Partial Melt Residues of an R Chondrite-Like Precursor. *Geochimica et Cosmochimica Acta* **122**, 36-57.

61. C. W. Hergenrother, M. C. Nolan, R. P. Binzel, E. A. Cloutis, M. A. Barucci, P. Michel, D. J. Scheeres, C. Drouet d’Aubigny, D. Lazzaroh, N. Pinilla-Alonsoi, H. Campins, J. Licandro, B. E. Clark, B. Rizk, E. C. Beshore, and **D. S. Lauretta**. Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. *Icarus* **226**, 663–670.

60. C. Lantz, B. E. Clark, M. A. Barucci, **D. S. Lauretta**. Evidence for the Effects of Space Weathering Spectral Signatures on Low Albedo Asteroids. *Astronomy & Astrophysics* **554**, A138, 7 pp.

59. M. C. Nolan, C. Magri, E. S. Howell, L. A. M. Benner, J. D. Giorgini, C. W. Hergenrother, R. S. Hudson, **D. S. Lauretta**, J.-L. Margot, S. J. Ostro, D. J. Scheeres. Shape Model and Surface Properties of the OSIRIS-REx Target Asteroid (101955) Bennu from Radar and Lightcurve observations. *Icarus* **226**, 629–640.

58. Nolan, M. C., Magri, C., Howell, E. S., Benner, L. A. M., Giorgini, J. D., Hergenrother, C. W., Hudson, R. S., **Lauretta, D. S.**, Margot, J. L., Ostro, S. J., Scheeres, D. J. Asteroid (101955) Bennu Shape Model V1.0. NASA Planetary Data System, EAR-A-I0037-5-BENNU SHAPE-V1.0

57. D. L. Schrader, H. C. Connolly Jr., **D. S. Lauretta**, K. Nagashima, G. R. Huss, J. Davidson, and K. J. Domanik. The Formation and Alteration of the Renazzo-like Carbonaceous Chondrites II: Linking O-isotope Composition and Oxidation State of Chondrule Olivine. *Geochimica et Cosmochimica Acta* **101**, 302–327.

56. K. J. Walsh, M. Delbó, W. F. Bottke, D. Vokrouhlický, **D. S. Lauretta**. Introducing the Eulalia and new Polana asteroid families: re-assessing primitive asteroid families in the inner Main Belt. *Icarus* **225**, 283–297.

2012:

55. R. H. Brown, **D. S. Lauretta**, B. Schmidt, and J. Moores. Experimental and Theoretical Simulations of Ice Sublimation with Implications for the Chemical, Isotopic, and Physical Evolution of Icy Objects. *Planetary and Space Science* **60**, 166–180.

54. K. G. Gardner-Vandy, **D. S. Lauretta**, R. C. Greenwood, T. J. McCoy, M. Killgore, I. A. Franchi. The Tafassasset Primitive Achondrite: Insights into Initial Stages of Planetary Differentiation. *Geochimica et Cosmochimica Acta* **85**, 142–159.

53. J. E. Moores, R. H. Brown, **D. S. Lauretta**, P. H. Smith, L. Riofrio. Experimental and theoretical simulation of sublimating dusty water ice with implications for D/H ratios of water ice on Comets and Mars. *Planetary Science* **1**, 2–28.

52. S. Pizzarello, D. L. Schrader, A. A. Monroe, and **D. S. Lauretta**. Large enantiomeric excesses in primitive meteorites and the diverse effects of water in cosmochemical evolution. *Proceedings of the National Academy of Sciences* **109**, 11949–11954.

2011:

51. D. S. Lauretta. A Cosmochemical View of the Solar System. *Elements* **7**, 11 – 16.

50. D. S. Lauretta. Nier Prize for Fred J. Ciesla. *Meteoritics & Planetary Science* **46**, 930–931.

49. E. L. Berger, T. J. Zega, L. P. Keller, and **D. S. Lauretta**. Evidence for aqueous activity on comet 81P/Wild 2 from sulfide mineral assemblages in Stardust samples and CI chondrites. *Geochimica et Cosmochimica Acta* **75**, 3501–3513

48. B. E. Clark, R. P. Binzel, E. Howell, E. A. Cloutis, M. Ockert-Bella, P. Christensen, A. Barucci, F. DeMeo, **D. S. Lauretta**, H. Connolly Jr., A. Soderberg. Asteroid (101955) 1999 RQ36: Spectroscopy from 0.4 to 2.5 μ m and Meteorite Analogs. *Icarus* **216**, 462–475.

47. K. G. Gardner-Vandy, **D. S. Lauretta**, D. H. Hill, Y. S. Goreva, K. J. Domanik, I. A. Franchi, R. C. Greenwood, M. Killgore. Petrology and Geochemistry of the Northwest Africa 3368 Eucrite. *Meteoritics and Planetary Science* **46**, 1052–1070.

46. E. E. Palmer and **D. S. Lauretta**. Kamacite as an Indicator of Aqueous Alteration. *Meteoritics and Planetary Science* **46**, 1587-1607

45. D. L. Schrader, H. C. Connolly Jr., **D. S. Lauretta**, J. M. Gibson, R. C. Greenwood, and I. A. Franchi. The Formation and Alteration of the Renazzo-like Carbonaceous Chondrites I: Implications of Bulk-Oxygen Isotopic Composition. *Geochimica et Cosmochimica Acta* **75**, 308-325.

2010:

44. D. Apai and **D. S. Lauretta**. Planet Formation and Protoplanetary Dust. In: *Protoplanetary Dust*, Cambridge University Press.

43. D. Apai, H. C. Connolly Jr., and **D. S. Lauretta**. Thermal Processing in Protoplanetary Nebulae. In: *Protoplanetary Dust*, Cambridge University Press.

42. J. C. Bond, **D. S. Lauretta**, and D. P. O'Brien. Making the Earth: Combining Dynamics and Chemistry in the Solar System. *Icarus* **205**, 321-337.

41. J. C. Bond, D. P. O'Brien, and **D. S. Lauretta**. The Compositional Diversity of Extrasolar Terrestrial Planets: I. In-Situ Simulations. *Astrophysical Journal* **715**, 1050-1070.

40. J. C. Bond, **D. S. Lauretta**, and D. P. O'Brien. The Diversity of Extrasolar Terrestrial Planets. *Proceedings of the International Astronomical Union-IAU Symposium* **265**, 399-402.

39. H. Campins, A. Morbidelli, K. Tsiganis, J. de Leon, J. Licandro, and **D. Lauretta**. The Origin of Asteroid 101955 (1999 RQ36). *The Astrophysical Journal Letters*, **721**, L53–L57.

38. C. V. Haynes Jr., J. Boerner, K. Domanik, **D. Lauretta**, J. Ballenger, and J. Goreva. The Murray Springs Clovis site, Pleistocene extinction, and the question of extraterrestrial impact. *Proceedings of the National Academy of Sciences of The United States of America* **107**, 4010-4015.

37. C. V. Haynes, **D. S. Lauretta**, J. A. M. Ballenger, Reply to Firestone et al.: No confirmation of impact at the lower Younger Dryas boundary at Murray Springs, AZ. *Proceedings of the National Academy of Sciences*, **107**, E106-E106.

36. D. L. Schrader and **D. S. Lauretta**. High-temperature experimental analogs of primitive meteoritic metal-sulfide-oxide assemblages. *Geochimica et Cosmochimica Acta* **74**, 1719-1733.

35. D. L. Schrader, **D. S. Lauretta**, H. C. Connolly Jr., Y. S. Goreva, D. H. Hill, K. J. Domanik, E. L. Berger, H. Yang, and R. T. Downs. Sulfide-rich metallic impact melts from chondritic parent bodies. *Meteoritics & Planetary Science* **45**, 743-758.

2009:

34. D. S. Lauretta, J. S. Goreva, M. Killgore, A. R. La Blue, A. Campbell, R. C. Greenwood, A. B. Verchovsky, and I. A. Franchi. The Fountain Hills Unique CB Chondrite: Insights into Thermal Processing on the CB Parent Body. *Meteoritics and Planetary Science* **44**, 823–838.

33. D. S. Lauretta and B. E. Schmidt. Oxidation of Minor Elements from an Iron–Nickel–Chromium–Cobalt–Phosphorus Alloy in 17.3% CO₂–H₂ Gas Mixtures at 700–1000 °C *Oxidation of Metals* **71**, 219-235.

32. D. S. Lauretta. The Fallen Sky: An Intimate History of Shooting Stars (Book Review). *Science* **326**, 524-525.

2008:

31. J. C. Bond, **D. S. Lauretta**, C. G. Tinney, R. P. Butler, H. R. A. Jones, G. W. Marcy, A. J. Penny, and B. D. Carter. The r- and s-process Elemental Abundances in Stars with Planets. *The Astrophysical Journal*, **682**, 1234-1237.
30. D. L. Schrader, H. C. Connolly Jr., and **D. S. Lauretta**. Opaque Phases in Type-II Chondrules from CR2 Chondrites: Implications for CR Parent Body Formation. *Geochimica et Cosmochimica Acta* **72**, 6124-6140.
29. M. A. Pasek and **D. S. Lauretta**. The Flux of Meteoritic C, N, P, and Ir to the early Earth. *Origin of Life and Evolution of the Biosphere* **38**, 5-21.

2007:

28. M. A. Pasek, J. P. Dworkin, and **D. S. Lauretta**. A radical pathway for organic phosphorylation during schreibersite corrosion with implications for the origin of life. *Geochimica et Cosmochimica Acta* **71**, 1721-1736.

2006:

27. **D. S. Lauretta**, H. Nagahara, and C. M. O'D. Alexander. Petrology of ferromagnesian silicate chondrules. In: *Meteorites and the Early Solar System II*. University of Arizona Press, 431-459.
26. H. Y. McSween, **D. S. Lauretta**, and L. A. Leshin. Recent Advances in Meteoritics and Cosmochemistry. In: *Meteorites and the Early Solar System II*. University of Arizona Press, 53-66.
25. E. B. Rosenshein, M. A. Ivanova, T. L. Dickinson, T. J. McCoy, **D. S. Lauretta**, Y. Guan and L. A. Leshin. Oxide-bearing and FeO-rich clasts in aubrites. *Meteoritics and Planetary Science* **41**, 495-503.

2005:

24. **D. S. Lauretta**. Sulfidation of an Iron-Nickel-Chromium-Cobalt-Phosphorus Alloy in 1% H₂S-H₂ Gas Mixtures at 400 – 1000 °C. *Oxidation of Metals* **64**, 1-22.
23. G. K. Benedix, **D. S. Lauretta**, and T. J. McCoy. Thermodynamic constraints on the formation conditions of winonaites and silicate-bearing IAB irons. *Geochimica et Cosmochimica Acta* **69**, 5123-5131.
22. E. S. Bullock, M. Gounelle, **D. S. Lauretta**, M. M. Grady, and S. S. Russell. The mineralogy and texture of Fe-Ni sulphides in CI1 chondrites: Clues to the extent of aqueous alteration on the CI1 parent body. *Geochimica et Cosmochimica Acta* **69**, 2687-2700.
21. S. Messenger, L. P. Keller, and **D. S. Lauretta**. Supernova olivine from cometary dust. *Science* **309**, 737 – 741.
20. M. A. Pasek, J. A. Milsom, F. J. Ciesla, **D. S. Lauretta**, C. Sharp and J. I. Lunine. Sulfur chemistry in protoplanetary nebulae with time-varying oxygen abundances. *Icarus* **175**, 1-14.
19. M. A. Pasek and **D. S. Lauretta**. Aqueous corrosion of phosphide minerals from iron meteorites: An abundant highly reactive source of prebiotic phosphorus on the surface of the early Earth. *Astrobiology* **5**, 515-535.

2004:

18. F. J. Ciesla and **D. S. Lauretta**. Radial migration and dehydration of phyllosilicates in the solar nebula. *Earth and Planetary Science Letters* **231**, 1-8.

17. F. J. Ciesla, **D. S. Lauretta**, and L. L. Hood. The frequency of compound chondrules and implications for chondrule formation. *Meteoritics and Planetary Science* **39**, 531-544.

2003:

16. D. S. Lauretta and P. R. Buseck. Opaque minerals in chondrules and fine-grained chondrule rims in the Bishunpur (LL3.1) ordinary chondrite. *Meteoritics and Planetary Science* **38**, 59-79.

15. F. J. Ciesla, **D. S. Lauretta**, L. L. Hood, and B. A. Cohen. A nebular origin for chondritic fine-grained phyllosilicates. *Science* **299**, 549-552.

14. T. Kojima, **D. S. Lauretta**, and P. R. Buseck. Troilite-silicate-metal inclusions and chondrule rims in the Bishunpur (LL3.1) chondrite: A history of asteroidal processing of unequilibrated chondritic material. *Geochimica et Cosmochimica Acta* **67**, 3065-3078.

13. E. B. Melchiorre, **D. S. Lauretta**, C. T. Gholson, and M. K. Crombie. Rich Hill, Arizona: A Modern gold rush to a historic gold district. *Mining Engineering* **55**, 23-28.

2002:

12. D. S. Lauretta. Opaque minerals in primitive stony meteorites. *Meteoritics and Planetary Science* **37**, 475 (Editorial).

2001:

11. D. S. Lauretta, B. Klaue, J. D. Blum, and P. R. Buseck. Mercury abundances and isotopic compositions in the Murchison (CM) and Allende (CV) carbonaceous chondrites. *Geochimica et Cosmochimica Acta* **65**, 2807-2818.

10. D. S. Lauretta, P. R. Buseck, and T. J. Zega. Opaque minerals in the matrix of the Bishunpur (LL3.1) chondrite: Constraints on the chondrule formation environment. *Geochimica et Cosmochimica Acta* **65**, 1337-1353.

2000:

9. D. S. Lauretta, X. Hua, and P. R. Buseck. Mineralogy of fine-grained rims in the ALH 81002 CM chondrite. *Geochimica et Cosmochimica Acta* **64**, 3263-3273.

1999:

8. D. S. Lauretta, B. Devouard, and P. R. Buseck. The cosmochemical behavior of mercury. *Earth and Planetary Science Letters* **171**, 35-47.

1998:

7. D. S. Lauretta, K. Lodders, and B. Fegley, Jr. Kamacite sulfurization in the solar nebula. *Meteoritics & Planetary Science* **33**, 821-834.

1997:

6. D. S. Lauretta and K. Lodders. The cosmochemical behavior of beryllium and boron. *Earth and Planetary Science Letters* **146**, 315-328.

5. D. S. Lauretta, K. Lodders, B. Fegley, Jr., and D. T. Kremser. The origin of sulfide-rimmed metal grains in ordinary chondrites. *Earth and Planetary Science Letters* **151**, 289-301.

4. D. S. Lauretta, K. Lodders, and B. Fegley, Jr. Experimental simulations of sulfide formation in the solar nebula. *Science* **277**, 358-360.

1996:

3. D. S. Lauretta, D. T. Kremser, and B. Fegley, Jr. The rate of iron sulfide formation in the solar nebula. *Icarus* **122**, 288-315.

2. D. S. Lauretta, D. T. Kremser, and B. Fegley, Jr. A comparative study of experimental and meteoritic metal-sulfide assemblages. *Proceedings of the NIPR Symposium on Antarctic Meteorites No. 9*, 97-110.

1. D. S. Lauretta, B. Fegley Jr., K. Lodders, and D. T. Kremser. The kinetics and mechanism of iron sulfide formation in the solar nebula. *Proceedings of the NIPR Symposium on Antarctic Meteorites No. 9*, 111-126.