Larry Nittler

List of Publications by Year
in descending order

175 papers	12,931 citations	15504 65 h-index	24258 110 g-index
177 all docs	177 docs citations	177 times ranked	5436 citing authors

#	Article	IF	Citations
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. Science, 2006, 314, 1720-1724.	12.6	519
3	The Provenances of Asteroids, and Their Contributions to the Volatile Inventories of the Terrestrial Planets. Science, 2012, 337, 721-723.	12.6	511
4	The Major-Element Composition of Mercuryâ€™s Surface from MESSENGER X-ray Spectrometry. Science, 2011, 333, 1847-1850.	12.6	386
5	Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728.	12.6	343
6	Stellar Sapphires: The Properties and Origins of Presolar Al2O3in Meteorites. Astrophysical Journal, 1997, 483, 475-495.	4.5	337
7	Interstellar Chemistry Recorded in Organic Matter from Primitive Meteorites. Science, 2006, 312, 727-730.	12.6	315
8	Characterization of insoluble organic matter in primitive meteorites by microRaman spectroscopy. Meteoritics and Planetary Science, 2007, 42, 1387-1416.	1.6	264
9	Astrophysics with Presolar Stardust. Annual Review of Astronomy and Astrophysics, 2004, 42, 39-78.	24.3	257
10	Radioactive Elements on Mercuryâ€™s Surface from MESSENGER: Implications for the Planetâ€™s Formation and Evolution. Science, 2011, 333, 1850-1852.	12.6	233
11	Flood Volcanism in the Northern High Latitudes of Mercury Revealed by MESSENGER. Science, 2011, 333, 1853-1856.	12.6	225
12	Interstellar oxide grains from the Tieschitz ordinary chondrite. Nature, 1994, 370, 443-446.	27.8	213
13	Origin and Evolution of Prebiotic Organic Matter As Inferred from the Tagish Lake Meteorite. Science, 2011, 332, 1304-1307.	12.6	189
14	Ultra-primitive interplanetary dust particles from the comet 26P/Griggâ€“Skjellerup dust stream collection. Earth and Planetary Science Letters, 2009, 288, 44-57.	4.4	187
15	Presolar Grains from Novae. Astrophysical Journal, 2001, 551, 1065-1072.	4.5	185
16	Establishing a molecular relationship between chondritic and cometary organic solids. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19171-19176.	7.1	181
17	Presolar stardust in meteorites: recent advances and scientific frontiers. Earth and Planetary Science Letters, 2003, 209, 259-273.	4.4	175
18	Evidence for Water Ice Near Mercuryâ€™s North Pole from MESSENGER Neutron Spectrometer Measurements. Science, 2013, 339, 292-296.	12.6	173

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19	Evidence for geochemical terranes on Mercury: Global mapping of major elements with MESSENGER's X-Ray Spectrometer. Earth and Planetary Science Letters, 2015, 416, 109-120.	4.4	167
20	Mercury's Magnetosphere After MESSENGER's First Flyby. Science, 2008, 321, 85-89.	12.6	166
21	Aluminumâ€, Calciumâ€•and Titaniumâ€•rich Oxide Stardust in Ordinary Chondrite Meteorites. Astrophysical Journal, 2008, 682, 1450-1478.	4.5	163
22	The nature, origin and modification of insoluble organic matter in chondrites, the major source of Earthâ€™s C and N. Chemie Der Erde, 2017, 77, 227-256.	2.0	163
23	Evidence for interstellar origin of seven dust particles collected by the Stardust spacecraft. Science, 2014, 345, 786-791.	12.6	152
24	Extinct ⁴⁴ Ti in Presolar Graphite and SiC: Proof of a Supernova Origin. Astrophysical Journal, 1996, 462, L31-L34.	4.5	146
25	Majorâ€•element abundances on the surface of Mercury: Results from the MESSENGER Gammaâ€Ray Spectrometer. Journal of Geophysical Research, 2012, 117, .	3.3	146
26	Chemical heterogeneity on Mercury's surface revealed by the MESSENGER Xâ€Ray Spectrometer. Journal of Geophysical Research, 2012, 117, .	3.3	144
27	Presolar SiC Grains of Type A and B: Their Isotopic Compositions and Stellar Origins. Astrophysical Journal, 2001, 559, 463-483.	4.5	136
28	Characterization of Presolar Silicate and Oxide Grains in Primitive Carbonaceous Chondrites. Astrophysical Journal, 2007, 656, 1223-1240.	4.5	136
29	Hollows on Mercury: MESSENGER Evidence for Geologically Recent Volatile-Related Activity. Science, 2011, 333, 1856-1859.	12.6	136
30	Remote sensing evidence for an ancient carbon-bearing crust on Mercury. Nature Geoscience, 2016, 9, 273-276.	12.9	134
31	Astrophysics with Extraterrestrial Materials. Annual Review of Astronomy and Astrophysics, 2016, 54, 53-93.	24.3	133
32	Silicon and Carbon Isotopic Ratios in AGB Stars: SiC Grain Data, Models, and the Galactic Evolution of the Si Isotopes. Astrophysical Journal, 2006, 650, 350-373.	4.5	125
33	The Elemental Composition of Asteroid 433 Eros: Results of the NEAR-Shoemaker X-ray Spectrometer. Science, 2000, 289, 2101-2105.	12.6	123
34	COORDINATED ANALYSES OF PRESOLAR GRAINS IN THE ALLAN HILLS 77307 AND QUEEN ELIZABETH RANGE 99177 METEORITES. Astrophysical Journal, 2010, 719, 166-189.	4.5	113
35	The redox state, FeO content, and origin of sulfurâ€•rich magmas on Mercury. Journal of Geophysical Research E: Planets, 2013, 118, 138-146.	3.6	112
36	Xâ€•ray fluorescence measurements of the surface elemental composition of asteroid 433 Eros. Meteoritics and Planetary Science, 2001, 36, 1673-1695.	1.6	110

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37	Spectra of extremely reduced assemblages: Implications for Mercury. Meteoritics and Planetary Science, 2002, 37, 1233-1244.	1.6	108
38	Mercuryâ€™s Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. Space Science Reviews, 2014, 181, 121-214.	8.1	108
39	Presolar SiC Grains of Type Y: Origin from Lowâ€Metallicity Asymptotic Giant Branch Stars. Astrophysical Journal, 2001, 546, 248-266.	4.5	107
40	Are Presolar Silicon Carbide Grains from Novae Actually from Supernovae?. Astrophysical Journal, 2005, 631, L89-L92.	4.5	100
41	Isotopic anomalies in organic nanoglobules from Comet 81P/Wild 2: Comparison to Murchison nanoglobules and isotopic anomalies induced in terrestrial organics by electron irradiation. Geochimica Et Cosmochimica Acta, 2010, 74, 4454-4470.	3.9	100
42	Samples returned from the asteroid Ryugu are similar to Ivuna-type carbonaceous meteorites. Science, 2023, 379, .	12.6	97
43	Automated isotopic measurements of micron-sized dust: application to meteoritic presolar silicon carbide. Geochimica Et Cosmochimica Acta, 2003, 67, 4961-4980.	3.9	96
44	Orbital multispectral mapping of Mercury with the MESSENGER Mercury Dual Imaging System: Evidence for the origins of plains units and low-reflectance material. Icarus, 2015, 254, 287-305.	2.5	95
45	The composition of 433 Eros: A mineralogicalâ€”chemical synthesis. Meteoritics and Planetary Science, 2001, 36, 1661-1672.	1.6	93
46	Variations in the abundance of iron on Mercuryâ€™s surface from MESSENGER X-Ray Spectrometer observations. Icarus, 2014, 235, 170-186.	2.5	93
47	Oxygen, magnesium and chromium isotopic ratios of presolar spinel grains. Geochimica Et Cosmochimica Acta, 2005, 69, 4149-4165.	3.9	91
48	NanoSIMS isotopic analysis of small presolar grains: Search for Si3N4 grains from AGB stars and Al and Ti isotopic compositions of rare presolar SiC grains. Geochimica Et Cosmochimica Acta, 2007, 71, 4786-4813.	3.9	91
49	Polymorphism in Presolar Al2O3 Grains from Asymptotic Giant Branch Stars. Science, 2004, 305, 1455-1457.	12.6	90
50	Combined microâ€Raman, microâ€infrared, and field emission scanning electron microscope analyses of comet 81P/Wild 2 particles collected by Stardust. Meteoritics and Planetary Science, 2008, 43, 367-397.	1.6	89
51	Meteoritic oxide grain from supernova found. Nature, 1998, 393, 222-222.	27.8	86
52	Variations in the abundances of potassium and thorium on the surface of Mercury: Results from the MESSENGER Gammaâ€Ray Spectrometer. Journal of Geophysical Research, 2012, 117, .	3.3	85
53	Enhanced sodium abundance in Mercuryâ€™s north polar region revealed by the MESSENGER Gamma-Ray Spectrometer. Icarus, 2014, 228, 86-95.	2.5	85
54	Magnesiumâ€rich crustal compositions on Mercury: Implications for magmatism from petrologic modeling. Journal of Geophysical Research, 2012, 117, .	3.3	83

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55	Abundances of presolar silicon carbide grains in primitive meteorites determined by NanoSIMS. Geochimica Et Cosmochimica Acta, 2014, 139, 248-266.	3.9	80
56	Geochemistry, mineralogy, and petrology of boninitic and komatiitic rocks on the mercurian surface: Insights into the mercurian mantle. Icarus, 2017, 285, 155-168.	2.5	79
57	Isotopic and chemical variation of organic nanoglobules in primitive meteorites. Meteoritics and Planetary Science, 2013, 48, 904-928.	1.6	78
58	Pebbles and sand on asteroid (162173) Ryugu: In situ observation and particles returned to Earth. Science, 2022, 375, 1011-1016.	12.6	78
59	Meteorites on Mars observed with the Mars Exploration Rovers. Journal of Geophysical Research, 2008, 113, .	3.3	75
60	Elemental, isotopic, and structural changes in Tagish Lake insoluble organic matter produced by parent body processes. Meteoritics and Planetary Science, 2014, 49, 503-525.	1.6	75
61	Coordinated isotopic and mineralogic analyses of planetary materials enabled by in situ liftâ€•out with a focused ion beam scanning electron microscope. Meteoritics and Planetary Science, 2007, 42, 1373-1386.	1.6	74
62	Geochemical terranes of Mercuryâ€™s northern hemisphere as revealed by MESSENGER neutron measurements. Icarus, 2015, 253, 346-363.	2.5	74
63	A cometary building block in a primitive asteroidal meteorite. Nature Astronomy, 2019, 3, 659-666.	10.1	73
64	The Galactic Evolution of Si, Ti, and O Isotopic Ratios. Astrophysical Journal, 1999, 519, 222-235.	4.5	71
65	Chlorine on the surface of Mercury: MESSENGER gamma-ray measurements and implications for the planetâ€™s formation and evolution. Icarus, 2015, 257, 417-427.	2.5	66
66	AUTOMATED NanoSIMS MEASUREMENTS OF SPINEL STARDUST FROM THE MURRAY METEORITE. Astrophysical Journal, 2010, 717, 107-120.	4.5	64
67	Origin of meteoritic stardust unveiled by a revised proton-capture rate of 17O. Nature Astronomy, 2017, 1, .	10.1	64
68	Elemental composition from gammaâ€•ray spectroscopy of the NEARâ€Shoemaker landing site on 433 Eros. Meteoritics and Planetary Science, 2001, 36, 1639-1660.	1.6	58
69	Constraints on the abundance of carbon in near-surface materials on Mercury: Results from the MESSENGER Gamma-Ray Spectrometer. Planetary and Space Science, 2015, 108, 98-107.	1.7	57
70	Evidence from MESSENGER for sulfurâ€•and carbonâ€driven explosive volcanism on Mercury. Geophysical Research Letters, 2016, 43, 3653-3661.	4.0	57
71	Stellar Origin of ¹⁵N-rich Presolar SiC Grains of Type AB: Supernovae with Explosive Hydrogen Burning. Astrophysical Journal Letters, 2017, 842, L1.	8.3	55
72	Constraints on Heterogeneous Galactic Chemical Evolution from Meteoritic Stardust. Astrophysical Journal, 2005, 618, 281-296.	4.5	53

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73	Correlated microanalysis of cometary organic grains returned by Stardust. Meteoritics and Planetary Science, 2011, 46, 1376-1396.	1.6	53
74	Identification and measurement of neutron-absorbing elements on Mercuryâ€™s surface. Icarus, 2010, 209, 195-209.	2.5	52
75	STELLAR ORIGINS OF EXTREMELY ¹³C- AND ¹⁵N-ENRICHED PRESOLAR SIC GRAINS: NOVAE OR SUPERNOVAE?. Astrophysical Journal, 2016, 820, 140.	4.5	51
76	Extremely ⁵⁴Cr- and ⁵⁰Ti-rich Presolar Oxide Grains in a Primitive Meteorite: Formation in Rare Types of Supernovae and Implications for the Astrophysical Context of Solar System Birth. Astrophysical Journal Letters, 2018, 856, L24.	8.3	48
77	Remnants and ejecta of thermonuclear electron-capture supernovae. Astronomy and Astrophysics, 2019, 622, A74.	5.1	47
78	MESSENGER detection of electronâ€induced Xâ€ray fluorescence from Mercury's surface. Journal of Geophysical Research, 2012, 117, .	3.3	46
79	Rationale for BepiColombo Studies of Mercuryâ€™s Surface and Composition. Space Science Reviews, 2020, 216, 1.	8.1	46
80	Elemental composition of 433 Eros: New calibration of the NEAR-Shoemaker XRS data. Icarus, 2009, 200, 129-146.	2.5	45
81	The Chemical Composition of Mercury. , 2018, , 30-51.		43
82	High abundances of presolar grains and 15N-rich organic matter in CO3.0 chondrite Dominion Range 08006. Geochimica Et Cosmochimica Acta, 2018, 226, 107-131.	3.9	42
83	Mineralogy and petrology of Dominion Range 08006: A very primitive CO3 carbonaceous chondrite. Geochimica Et Cosmochimica Acta, 2019, 265, 259-278.	3.9	42
84	On the Mass and Metallicity Distributions of the Parent AGB Stars of O-Rich Presolar Stardust Grains. Publications of the Astronomical Society of Australia, 2009, 26, 271-277.	3.4	40
85	Mineral associations and character of isotopically anomalous organic material in the Tagish Lake carbonaceous chondrite. Geochimica Et Cosmochimica Acta, 2010, 74, 5966-5983.	3.9	40
86	Measuring the level of interstellar inheritance in the solar protoplanetary disk. Meteoritics and Planetary Science, 2017, 52, 1797-1821.	1.6	39
87	Abundant extraterrestrial amino acids in the primitive CM carbonaceous chondrite Asuka 12236. Meteoritics and Planetary Science, 2020, 55, 1979-2006.	1.6	38
88	Presolar oxide grains in meteorites. , 1997, , .		37
89	A Low O/Si Ratio on the Surface of Mercury: Evidence for Silicon Smelting?. Journal of Geophysical Research E: Planets, 2017, 122, 2053-2076.	3.6	36
90	The BepiColombo Mercury Imaging X-Ray Spectrometer: Science Goals, Instrument Performance and Operations. Space Science Reviews, 2020, 216, 1.	8.1	36

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91	Galactic Age Estimates from O-rich Stardust in Meteorites. Physical Review Letters, 1997, 78, 175-178.	7.8	35
92	Bonanza: An extremely large dust grain from a supernova. Geochimica Et Cosmochimica Acta, 2018, 221, 60-86.	3.9	34
93	Organic synthesis associated with serpentinization and carbonation on early Mars. Science, 2022, 375, 172-177.	12.6	32
94	Observations of suprathermal electrons in Mercury's magnetosphere during the three MESSENGER flybys. Planetary and Space Science, 2011, 59, 2016-2025.	1.7	31
95	Hydrogen and major element concentrations on 433 Eros: Evidence for an Lâ€•or <scp>LL</scp>â€chondriteâ€like surface composition. Meteoritics and Planetary Science, 2015, 50, 353-367.	1.6	30
96	SOLAR FLARE ELEMENT ABUNDANCES FROM THE SOLAR ASSEMBLY FOR X-RAYS (SAX) ONMESSENGER. Astrophysical Journal, 2015, 803, 67.	4.5	30
97	Compositional terranes on Mercury: Information from fast neutrons. Icarus, 2017, 281, 32-45.	2.5	30
98	Fluid-induced organic synthesis in the solar nebula recorded in extraterrestrial dust from meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 15338-15343.	7.1	29
99	A transmission electron microscopy study of presolar spinel. Geochimica Et Cosmochimica Acta, 2014, 124, 152-169.	3.9	29
100	INFERRED INITIAL²⁶Al/²⁷Al RATIOS IN PRESOLAR STARDUST GRAINS FROM SUPERNOVAE ARE HIGHER THAN PREVIOUSLY ESTIMATED. Astrophysical Journal, 2015, 809, 31.	4.5	29
101	Late formation of silicon carbide in type II supernovae. Science Advances, 2018, 4, eaao1054.	10.3	29
102	New Constraints on the Major Neutron Source in Low-mass AGB Stars. Astrophysical Journal, 2018, 865, 112.	4.5	29
103	The Surface Composition of Mercury. Elements, 2019, 15, 33-38.	0.5	28
104	Global major-element maps of Mercury from four years of MESSENGER X-Ray Spectrometer observations. Icarus, 2020, 345, 113716.	2.5	27
105	Evidence for extended acceleration of solar flare ions from 1â€“8 MeV solar neutrons detected with the MESSENGER Neutron Spectrometer. Journal of Geophysical Research, 2010, 115, .	3.3	26
106	Mercuryâ€™s Internal Structure. , 2018, , 85-113.		26
107	J-type Carbon Stars: A Dominant Source of ¹⁴N-rich Presolar SiC Grains of Type AB. Astrophysical Journal Letters, 2017, 844, L12.	8.3	25
108	A TRANSMISSION ELECTRON MICROSCOPY STUDY OF PRESOLAR HIBONITE. Astrophysical Journal, 2011, 730, 83.	4.5	23

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109	Galactic chemical evolution and the oxygen isotopic composition of the solar system. Meteoritics and Planetary Science, 2012, 47, 2031-2048.	1.6	23
110	Aluminum abundance on the surface of Mercury: Application of a new backgroundâ€reduction technique for the analysis of gammaâ€ray spectroscopy data. Journal of Geophysical Research, 2012, 117, .	3.3	23
111	Presolar Silicon Carbide Grains of Types Y and Z: Their Molybdenum Isotopic Compositions and Stellar Origins. Astrophysical Journal, 2019, 881, 28.	4.5	23
112	The Geochemical and Mineralogical Diversity of Mercury. , 2018, , 176-190.		21
113	The Elusive Origin of Mercury. , 2018, , 497-515.		21
114	Evidence Connecting Mercury's Magnesium Exosphere to Its Magnesiumâ€Rich Surface Terrane. Geophysical Research Letters, 2018, 45, 6790-6797.	4.0	21
115	Origin of Large Meteoritic SiC Stardust Grains in Metal-rich AGB Stars. Astrophysical Journal, 2020, 898, 96.	4.5	21
116	The NEARâ€Shoemaker xâ€ray/gammaâ€ray spectrometer experiment: Overview and lessons learned. Meteoritics and Planetary Science, 2001, 36, 1605-1616.	1.6	19
117	Properties and distribution of paired candidate stony meteorites at Meridiani Planum, Mars. Journal of Geophysical Research, 2010, 115, .	3.3	19
118	Evaluating an impact origin for Mercury's high-magnesium region. Journal of Geophysical Research E: Planets, 2017, 122, 614-632.	3.6	19
119	No FeS layer in Mercury? Evidence from Ti/Al measured by MESSENGER. Earth and Planetary Science Letters, 2020, 534, 116108.	4.4	19
120	Ion Implants as Matrixâ€Appropriate Calibrators for Geochemical Ion Probe Analyses. Geostandards and Geoanalytical Research, 2015, 39, 265-276.	3.1	18
121	Cluster Analysis of Presolar Silicon Carbide Grains: Evaluation of Their Classification and Astrophysical Implications. Astrophysical Journal Letters, 2021, 907, L39.	8.3	18
122	High-temperature Dust Condensation around an AGB Star: Evidence from a Highly Pristine Presolar Corundum. Astrophysical Journal Letters, 2018, 862, L13.	8.3	17
123	Presolar stardust in highly pristine CM chondrites Asuka 12169 and Asuka 12236. Meteoritics and Planetary Science, 2021, 56, 260-276.	1.6	17
124	Coordinated <scp>EDX</scp> and microâ€Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. Meteoritics and Planetary Science, 2017, 52, 2550-2569.	1.6	16
125	The future of Stardust science. Meteoritics and Planetary Science, 2017, 52, 1859-1898.	1.6	16
126	Re-examining thermal metamorphism of the Renazzo-like (CR) carbonaceous chondrites: Insights from pristine Miller Range 090657 and shock-heated Graves Nunataks 06100. Geochimica Et Cosmochimica Acta, 2019, 267, 240-256.	3.9	16

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127	Determining the Elemental and Isotopic Composition of the Pre-solar Nebula from Genesis Data Analysis: The Case of Oxygen. Astrophysical Journal Letters, 2017, 851, L12.	8.3	15
128	Titanium isotopic compositions of rare presolar SiC grain types from the Murchison meteorite. Geochimica Et Cosmochimica Acta, 2018, 221, 162-181.	3.9	15
129	Common Occurrence of Explosive Hydrogen Burning in Type II Supernovae. Astrophysical Journal, 2018, 855, 144.	4.5	15
130	Oxygen-rich stardust in meteorites. AIP Conference Proceedings, 1995, , .	0.4	13
131	The Volcanic Character of Mercury. , 2018, , 287-323.		13
132	Presolar grains in primitive ungrouped carbonaceous chondrite Northwest Africa 5958. Meteoritics and Planetary Science, 2020, 55, 1160-1175.	1.6	13
133	Highly volatile element (H, C, F, Cl, S) abundances and H isotopic compositions in chondrules from carbonaceous and ordinary chondrites. Geochimica Et Cosmochimica Acta, 2021, 301, 230-258.	3.9	13
134	Stardust Interstellar Preliminary Examination V: <scp>XRF</scp> analyses of interstellar dust candidates at <scp>ESRF ID</scp>13. Meteoritics and Planetary Science, 2014, 49, 1594-1611.	1.6	12
135	Stardust Interstellar Preliminary Examination <scp>III</scp>: Infrared spectroscopic analysis of interstellar dust candidates. Meteoritics and Planetary Science, 2014, 49, 1548-1561.	1.6	12
136	Mercuryâ€™s Hollows. , 2018, , 324-345.		12
137	Correlated XANES, TEM, and NanoSIMS of presolar graphite grains. Geochimica Et Cosmochimica Acta, 2018, 221, 219-236.	3.9	10
138	The MESSENGER Mission: Science and Implementation Overview. , 2018, , 1-29.		10
139	The Geologic History of Mercury. , 2018, , 144-175.		10
140	Impact Cratering of Mercury. , 2018, , 217-248.		10
141	New Multielement Isotopic Compositions of Presolar SiC Grains: Implications for Their Stellar Origins. Astrophysical Journal Letters, 2021, 920, L26.	8.3	10
142	Evaluation of the classification of pre-solar silicon carbide grains using consensus clustering with resampling methods: An assessment of the confidence of grain assignments. Monthly Notices of the Royal Astronomical Society, 2021, 510, 334-350.	4.4	10
143	Mercuryâ€™s Crust and Lithosphere: Structure and Mechanics. , 2018, , 52-84.		9
144	Spectral Reflectance Constraints on the Composition and Evolution of Mercuryâ€™s Surface. , 2018, , 191-216.		9

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145	Mercuryâ€™s Polar Deposits. , 2018, , 346-370.		9
146	Cometary Dust in the Laboratory. Science, 2010, 328, 698-699.	12.6	8
147	Understanding Mercuryâ€™s Exosphere: Models Derived from MESSENGER Observations. , 2018, , 407-429.		8
148	Mercuryâ€™s Dynamic Magnetosphere. , 2018, , 461-496.		8
149	MESSENGER Xâ€Ray Observations of Electron Precipitation on the Dayside of Mercury. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	8
150	Evidence for Reduced, Carbon-rich Regions in the Solar Nebula from an Unusual Cometary Dust Particle. Astrophysical Journal, 2017, 848, 113.	4.5	7
151	TEM Analyses of Unusual Presolar Silicon Carbide: Insights into the Range of Circumstellar Dust Condensation Conditions. Astrophysical Journal, 2021, 913, 90.	4.5	7
152	4. Nucleosynthesis and Chemical Evolution of Oxygen. , 2008, , 31-54.		5
153	Calibration of the MESSENGER X-Ray Spectrometer. Planetary and Space Science, 2016, 122, 13-25.	1.7	5
154	Observations of Mercuryâ€™s Exosphere: Composition and Structure. , 2018, , 371-406.		5
155	Fossil biomass preserved as graphitic carbon in a late Paleoproterozoic banded iron formation metamorphosed at more than 550Â°C. Journal of the Geological Society, 2019, 176, 651-668.	2.1	5
156	Effects of aqueous alteration on primordial noble gases and presolar SiC in the carbonaceous chondrite Tagish Lake. Meteoritics and Planetary Science, 2020, 55, 1257-1280.	1.6	4
157	Sampling interplanetary dust from Antarctic air. Meteoritics and Planetary Science, 2020, 55, 1128-1145.	1.6	4
158	Electron Microscopy of In Situ Presolar Silicon Carbide. Microscopy and Microanalysis, 2002, 8, 1550-1551.	0.4	3
159	Raman Spectroscopy on Cometary and Meteoritic Organic Matter. Spectroscopy Letters, 2011, 44, 554-559.	1.0	2
160	Reply to: GEMS and the devil in their details. Nature Astronomy, 2019, 3, 606-606.	10.1	2
161	The Distribution of Peakâ€Ring Basins on Mercury and Their Correlation With the Highâ€Mg/Si Terrane. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006839.	3.6	2
162	ASTRONOMY: Nuclear Fossils in Stardust. Science, 2004, 303, 636-637.	12.6	1

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163	Coordinated Electron and X-ray Microscopy of Cometary Organic Matter Collected by the NASA Stardust Mission.. Microscopy and Microanalysis, 2014, 20, 1694-1695.	0.4	1
164	Low Energy STEM-EELS Characterization of Primitive Organic Matter and Silicates in the Meteorite LAP 02342. Microscopy and Microanalysis, 2018, 24, 2074-2075.	0.4	1
165	Microscale Hydrogen and Nitrogen Isotopic Distributions in Pristine CM Chondrite Asuka 12236. , 2020, , .		1
166	Presolar Stardust in the Solar System: Implications for Nucleosynthesis and Galactic Chemical Evolution. AIP Conference Proceedings, 2008, , .	0.4	0
167	Structural, chemical and isotopic examinations of interstellar organic matter extracted from meteorites and interstellar dust particles. Proceedings of the International Astronomical Union, 2008, 4, 333-334.	0.0	0
168	Presolar grains in the Solar System: Connections to stellar and interstellar organics. Proceedings of the International Astronomical Union, 2008, 4, 343-344.	0.0	0
169	3D Nanoscale Analysis Using Focused Ion Beam Tomography of Carbonaceous Nanoglobules in Matrix Materials from the Tagish Lake Meterorite. Microscopy and Microanalysis, 2014, 20, 318-319.	0.4	0
170	Morphologies, Isotopes, Crystal Structures, and Microstructures of Presolar Al2O3 Grains: a NanoSIMS, EBSD, EDS, CL, and FIB-TEM study. Microscopy and Microanalysis, 2014, 20, 1696-1697.	0.4	0
171	Determination of the Effects of Hydrothermal Alteration on Silicate Stardust with Secondary Ion Mass Spectrometry and Transmission Electron Microscopy. Microscopy and Microanalysis, 2014, 20, 1698-1699.	0.4	0
172	Coordinated EDX and microâ€Raman analysis of presolar silicon carbide: A novel, nondestructive method to identify rare subgroup SiC. Meteoritics and Planetary Science, 2020, 55, .	1.6	0
173	Record of Alteration by Heavy Ices in a Cometary Clast in a Primitive Meteorite. Microscopy and Microanalysis, 2021, 27, 2268-2270.	0.4	0
174	Ernst K. Zinner (1937â€“2015). , 2017, , .		0
175	Meteoritic Stardust and the Presolar History of the Solar Neighborhood. , 2017, , .		0