Tim McCoy

List of Publications by Year
in descending order

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		18482	29157
184	12,738	62	104
papers	citations	h-index	g-index

195	195	195	5492
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Deciphering Redox State for a Metal-Rich World. Space Science Reviews, 2022, 218, 6.	8.1	4
2	Global geologic map of asteroid (101955) Bennu indicates heterogeneous resurfacing in the past 500,000Âyears. Icarus, 2022, 381, 114992.	2.5	13
3	Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface. Nature Geoscience, 2022, 15, 440-446.	12.9	20
4	Distinguishing the Origin of Asteroid (16) Psyche. Space Science Reviews, 2022, 218, 17.	8.1	13
5	Assessing the Sampleability of Bennuâ€™s Surface for the OSIRIS-REx Asteroid Sample Return Mission. Space Science Reviews, 2022, 218, 20.	8.1	12
6	The effects of highly reduced magmatism revealed through aubrites. Meteoritics and Planetary Science, 2022, 57, 1387-1420.	1.6	9
7	Nickel-rich, volatile depleted iron meteorites: Relationships and formation processes. Geochimica Et Cosmochimica Acta, 2022, 333, 1-21.	3.9	2
8	Meteorites. , 2021, , 174-184.		0
9	Exogenic basalt on asteroid (101955) Bennu. Nature Astronomy, 2021, 5, 31-38.	10.1	57
10	The Allende meteorite: Landmark and cautionary tale. Meteoritics and Planetary Science, 2021, 56, 5-7.	1.6	2
11	Spectral Characterization of Bennu Analogs Using PASCALE: A New Experimental Setâ€Up for Simulating the Nearâ€Surface Conditions of Airless Bodies. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006624.	3.6	10
12	Particle Size-Frequency Distributions of the OSIRIS-REx Candidate Sample Sites on Asteroid (101955) Bennu. Remote Sensing, 2021, 13, 1315.	4.0	33
13	Evidence for limited compositional and particle size variation on asteroid (101955) Bennu from thermal infrared spectroscopy. Astronomy and Astrophysics, 2021, 650, A120.	5.1	30
14	The Fe/S ratio of pyrrhotite group sulfides in chondrites: An indicator of oxidation and implications for return samples from asteroids Ryugu and Bennu. Geochimica Et Cosmochimica Acta, 2021, 303, 66-91.	3.9	24
15	Advances in Cosmochemistry Enabled by Antarctic Meteorites. Annual Review of Earth and Planetary Sciences, 2020, 48, 233-258.	11.0	5
16	Insights into the formation of silicaâ€rich achondrites from impact melts in Rumurutiâ€type chondrites. Meteoritics and Planetary Science, 2020, 55, 130-148.	1.6	22
17	Bright carbonate veins on asteroid (101955) Bennu: Implications for aqueous alteration history. Science, 2020, 370, .	12.6	71
18	Global Patterns of Recent Mass Movement on Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006475.	3.6	60

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19	Sulfideâ€dominated partial melting pathways in brachinites. Meteoritics and Planetary Science, 2020, 55, 2021-2043.	1.6	7
20	Qarabawiâ€™s Camel Charm: Tracing the meteoritic origins of a cultural artifact. Meteoritics and Planetary Science, 2020, 55, 1000-1010.	1.6	2
21	Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids. Astronomical Journal, 2020, 160, 14.	4.7	34
22	Observations, Meteorites, and Models: A Preflight Assessment of the Composition and Formation of (16) Psyche. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006296.	3.6	61
23	Origin and age of metal veins in Canyon Diablo graphite nodules. Meteoritics and Planetary Science, 2020, 55, 771-780.	1.6	0
24	Outward migration of chondrule fragments in the early Solar System: O-isotopic evidence for rocky material crossing the Jupiter Gap?. Geochimica Et Cosmochimica Acta, 2020, 282, 133-155.	3.9	23
25	Advanced Curation of Astromaterials for Planetary Science. Space Science Reviews, 2019, 215, 1.	8.1	50
26	Lewis Cliff 86211 and 86498: Metal-sulfide liquid segregates from a carbonaceous chondrite impact melt. Geochimica Et Cosmochimica Acta, 2019, 259, 253-269.	3.9	1
27	The Milton pallasite and South Byron Trio irons: Evidence for oxidation and core crystallization. Geochimica Et Cosmochimica Acta, 2019, 259, 358-370.	3.9	30
28	Best practices for the use of meteorite names in publications. Meteoritics and Planetary Science, 2019, 54, 1397-1400.	1.6	2
29	Evidence for widespread hydrated minerals on asteroid (101955) Bennu. Nature Astronomy, 2019, 3, 332-340.	10.1	251
30	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. Nature Geoscience, 2019, 12, 242-246.	12.9	161
31	Genetics, crystallization sequence, and age of the South Byron Trio iron meteorites: New insights to carbonaceous chondrite (CC) type parent bodies. Geochimica Et Cosmochimica Acta, 2019, 251, 217-228.	3.9	27
32	Reclassification of four aubrites as enstatite chondrite impact melts: Potential geochemical analogs for Mercury. Meteoritics and Planetary Science, 2019, 54, 785-810.	1.6	14
33	Grove Mountains (GRV) 020043: Insights into acapulcoite-lodranite genesis from the most primitive member. Chemie Der Erde, 2019, 79, 125536.	2.0	5
34	Spectral characterization of analog samples in anticipation of OSIRIS-REx's arrival at Bennu: A blind test study. Icarus, 2019, 319, 701-723.	2.5	38
35	Spectral evidence for amorphous silicates in least-processed CO meteorites and their parent bodies. Icarus, 2018, 306, 32-49.	2.5	10
36	The retention of dust in protoplanetary disks: Evidence from agglomeratic olivine chondrules from the outer Solar System. Geochimica Et Cosmochimica Acta, 2018, 223, 405-421.	3.9	32

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37	Acapulcoite-lodranite meteorites: Ultramafic asteroidal partial melt residues. Chemie Der Erde, 2018, 78, 153-203.	2.0	54
38	Hopewell Meteoritic Metal Beads: Clues to Trade 2,000 Years Ago. Elements, 2018, 14, 360-361.	0.5	1
39	The Geochemical and Mineralogical Diversity of Mercury. , 2018, , 176-190.		21
40	Mercuryâ€™s Global Evolution. , 2018, , 516-543.		8
41	Experimental insights into Stannern-trend eucrite petrogenesis. Meteoritics and Planetary Science, 2018, 53, 2122-2137.	1.6	4
42	Exploring the Possible Continuum Between Comets and Asteroids. , 2018, , 409-438.		3
43	Igneous lithologies on asteroid (4) Vesta mapped using gamma-ray and neutron data. Icarus, 2017, 286, 35-45.	2.5	11
44	Relict chondrules in primitive achondrites: Remnants from their precursor parent bodies. Geochimica Et Cosmochimica Acta, 2017, 205, 295-312.	3.9	33
45	Differentiation Under Highly Reducing Conditions: New Insights from Enstatite Meteorites and Mercury. , 2017, , 71-91.		5
46	The Anoka, Minnesota iron meteorite as parent to Hopewell meteoritic metal beads from Havana, Illinois. Journal of Archaeological Science, 2017, 81, 13-22.	2.4	9
47	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
48	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
49	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. Space Science Reviews, 2017, 212, 925-984.	8.1	426
50	Partial melting of oxidized planetesimals: An experimental study to test the formation of oligoclase-rich achondrites Graves Nunataks 06128 and 06129. Geochimica Et Cosmochimica Acta, 2017, 214, 73-85.	3.9	18
51	Compositional terranes on Mercury: Information from fast neutrons. Icarus, 2017, 281, 32-45.	2.5	30
52	Evidence from MESSENGER for sulfurâ€•and carbonâ€‘driven explosive volcanism on Mercury. Geophysical Research Letters, 2016, 43, 3653-3661.	4.0	57
53	Widespread evidence for high-temperature formation of pentlandite in chondrites. Geochimica Et Cosmochimica Acta, 2016, 189, 359-376.	3.9	41
54	Mineralogy, petrology, chronology, and exposure history of the Chelyabinsk meteorite and parent body. Meteoritics and Planetary Science, 2015, 50, 1790-1819.	1.6	48

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55	Using <scp>HED</scp> meteorites to interpret neutron and gammaâ€ray data from asteroidÂ4 Vesta. Meteoritics and Planetary Science, 2015, 50, 1311-1337.	1.6	24
56	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
57	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
58	Asteroid (4) Vesta II: Exploring a geologically and geochemically complex world with the Dawn Mission. Chemie Der Erde, 2015, 75, 273-285.	2.0	18
59	Iron and Stony-Iron Meteorites. , 2014, , 267-285.		30
60	2014 Service Award for Roy. S. Clarke. Meteoritics and Planetary Science, 2014, 49, 1984-1985.	1.6	0
61	Reply to comment on â€œGeochronology of the Martian meteorite Zagami revealed by Uâ€“Pb ion probe dating of accessory mineralsâ€• Earth and Planetary Science Letters, 2014, 385, 218-220.	4.4	2
62	Enhanced sodium abundance in Mercuryâ€™s north polar region revealed by the MESSENGER Gamma-Ray Spectrometer. Icarus, 2014, 228, 86-95.	2.5	85
63	X-ray absorption characterization of Cr in forsterite within the MacAlpine Hills 88136 EL3 chondritic meteorite. American Mineralogist, 2014, 99, 190-197.	1.9	10
64	Variations in the abundance of iron on Mercuryâ€™s surface from MESSENGER X-Ray Spectrometer observations. Icarus, 2014, 235, 170-186.	2.5	93
65	A petrologic, thermodynamic and experimental study of brachinites: Partial melt residues of an R chondrite-like precursor. Geochimica Et Cosmochimica Acta, 2013, 122, 36-57.	3.9	43
66	Geochronology of the Martian meteorite Zagami revealed by Uâ€“Pb ion probe dating of accessory minerals. Earth and Planetary Science Letters, 2013, 374, 156-163.	4.4	43
67	The primary fO2 of basalts examined by the Spirit rover in Gusev Crater, Mars: Evidence for multiple redox states in the martian interior. Earth and Planetary Science Letters, 2013, 384, 198-208.	4.4	28
68	Distribution of iron on Vesta. Meteoritics and Planetary Science, 2013, 48, 2237-2251.	1.6	35
69	Challenges in detecting olivine on the surface of 4 Vesta. Meteoritics and Planetary Science, 2013, 48, 2155-2165.	1.6	43
70	Compositional variability on the surface of 4 Vesta revealed through <scp>GR</scp>a<scp>ND</scp> measurements of highâ€energy gamma rays. Meteoritics and Planetary Science, 2013, 48, 2252-2270.	1.6	53
71	Chondritic models of 4 Vesta: Implications for geochemical and geophysical properties. Meteoritics and Planetary Science, 2013, 48, 2300-2315.	1.6	66
72	Neutron absorption constraints on the composition of 4 Vesta. Meteoritics and Planetary Science, 2013, 48, 2211-2236.	1.6	47

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73	The curious case of Mercury's internal structure. Journal of Geophysical Research E: Planets, 2013, 118, 1204-1220.	3.6	210
74	Composition of the Rheasilvia basin, a window into Vesta's interior. Journal of Geophysical Research E: Planets, 2013, 118, 335-346.	3.6	84
75	Magnesiumâ€rich crustal compositions on Mercury: Implications for magmatism from petrologic modeling. Journal of Geophysical Research, 2012, 117, .	3.3	83
76	Elemental Mapping by Dawn Reveals Exogenic H in Vestaâ€™s Regolith. Science, 2012, 338, 242-246.	12.6	201
77	Pitted Terrain on Vesta and Implications for the Presence of Volatiles. Science, 2012, 338, 246-249.	12.6	91
78	The Tafassasset primitive achondrite: Insights into initial stages of planetary differentiation. Geochimica Et Cosmochimica Acta, 2012, 85, 142-159.	3.9	42
79	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
80	Chemical heterogeneity on Mercury's surface revealed by the MESSENGER Xâ€Ray Spectrometer. Journal of Geophysical Research, 2012, 117, .	3.3	144
81	Majorâ€element abundances on the surface of Mercury: Results from the MESSENGER Gammaâ€Ray Spectrometer. Journal of Geophysical Research, 2012, 117, .	3.3	146
82	Dawn at Vesta: Testing the Protoplanetary Paradigm. Science, 2012, 336, 684-686.	12.6	422
83	Color and Albedo Heterogeneity of Vesta from Dawn. Science, 2012, 336, 700-704.	12.6	166
84	The Old Woman, California, IIAB iron meteorite. Meteoritics and Planetary Science, 2012, 47, 929-946.	1.6	2
85	Hollows on Mercury: MESSENGER Evidence for Geologically Recent Volatile-Related Activity. Science, 2011, 333, 1856-1859.	12.6	136
86	Evidence for mechanical and chemical alteration of iron-nickel meteorites on Mars: Process insights for Meridiani Planum. Journal of Geophysical Research, 2011, 116, .	3.3	28
87	The Major-Element Composition of Mercuryâ€™s Surface from MESSENGER X-ray Spectrometry. Science, 2011, 333, 1847-1850.	12.6	386
88	Radioactive Elements on Mercuryâ€™s Surface from MESSENGER: Implications for the Planetâ€™s Formation and Evolution. Science, 2011, 333, 1850-1852.	12.6	233
89	Group IVA irons: New constraints on the crystallization and cooling history of an asteroidal core with a complex history. Geochimica Et Cosmochimica Acta, 2011, 75, 6821-6843.	3.9	76
90	Bounce Rockâ€”A shergottiteâ€like basalt encountered at Meridiani Planum, Mars. Meteoritics and Planetary Science, 2011, 46, 1-20.	1.6	32

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91	Thermal and impact histories of reheated group IVA, IVB, and ungrouped iron meteorites and their parent asteroids. Meteoritics and Planetary Science, 2011, 46, 1227-1252.	1.6	31
92	A composite Fe,Niâ€FeS and enstatiteâ€forsteriteâ€diopsideâ€glass vitrophyre clast in the Larkman Nunatak 04316 aubrite: Origin by pyroclastic volcanism. Meteoritics and Planetary Science, 2011, 46, 1719-1741.	1.6	17
93	Cosmogenic radionuclides in L5 and LL5 chondrites from Queen Alexandra Range, Antarctica: Identification of a large L/LL5 chondrite shower with a preatmospheric mass of approximately 50,000 kg. Meteoritics and Planetary Science, 2011, 46, 177-196.	1.6	26
94	Analysis of MESSENGER Gamma-Ray Spectrometer data from the Mercury flybys. Planetary and Space Science, 2011, 59, 1829-1841.	1.7	18
95	HED Meteorites and Their Relationship to the Geology of Vesta and the Dawn Mission. Space Science Reviews, 2011, 163, 141-174.	8.1	192
96	The origin of Vestaâ€™s crust: Insights from spectroscopy of the Vestoids. Icarus, 2011, 214, 147-160.	2.5	29
97	Combining meteorites and missions to explore Mars. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19159-19164.	7.1	23
98	Mineralogical Evolution of Meteorites. Elements, 2010, 6, 19-23.	0.5	15
99	A coordinated spectral, mineralogical, and compositional study of ordinary chondrites. Icarus, 2010, 208, 789-797.	2.5	91
100	Identification and measurement of neutron-absorbing elements on Mercuryâ€™s surface. Icarus, 2010, 209, 195-209.	2.5	52
101	Pyroclast loss or retention during explosive volcanism on asteroids: Influence of asteroid size and gas content of melt. Meteoritics and Planetary Science, 2010, 45, 1284-1301.	1.6	17
102	The evolution of a heterogeneous Martian mantle: Clues from K, P, Ti, Cr, and Ni variations in Gusev basalts and shergottite meteorites. Earth and Planetary Science Letters, 2010, 296, 67-77.	4.4	27
103	Analysis of ordinary chondrites using powder X-ray diffraction: 1. Modal mineral abundances. Meteoritics and Planetary Science, 2010, 45, 123.	1.6	69
104	Analysis of ordinary chondrites using powder X-ray diffraction: 2. Applications to ordinary chondrite parent-body processes. Meteoritics and Planetary Science, 2010, 45, 135.	1.6	26
105	Petrologic insights from the spectra of the unbrecciated eucrites: Implications for Vesta and basaltic asteroids. Meteoritics and Planetary Science, 2010, 45, 1074-1092.	1.6	31
106	HED Meteorites and Their Relationship to the Geology of Vesta and the Dawn Mission. , 2010, , 141-174.		8
107	Exploration of Victoria Crater by the Mars Rover Opportunity. Science, 2009, 324, 1058-1061.	12.6	141
108	Spectral, mineralogical, and geochemical variations across Home Plate, Gusev Crater, Mars indicate high and low temperature alteration. Earth and Planetary Science Letters, 2009, 281, 258-266.	4.4	48

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109	Petrology of the unbrecciated eucrites. Geochimica Et Cosmochimica Acta, 2009, 73, 794-819.	3.9	129
110	The ironâ€“nickelâ€“phosphorus system: Effects on the distribution of trace elements during the evolution of iron meteorites. Geochimica Et Cosmochimica Acta, 2009, 73, 2674-2691.	3.9	35
111	The Evolution of Mercuryâ€™s Crust: A Global Perspective from MESSENGER. Science, 2009, 324, 613-618.	12.6	194
112	Mineralogy of volcanic rocks in Gusev Crater, Mars: Reconciling MÃ¶ssbauer, Alpha Particle Xâ€Ray Spectrometer, and Miniature Thermal Emission Spectrometer spectra. Journal of Geophysical Research, 2008, 113, .	3.3	96
113	Meteorites on Mars observed with the Mars Exploration Rovers. Journal of Geophysical Research, 2008, 113, .	3.3	75
114	Overview of Mars surface geochemical diversity through Alpha Particle Xâ€Ray Spectrometer data multidimensional analysis: First attempt at modeling rock alteration. Journal of Geophysical Research, 2008, 113, .	3.3	25
115	Hydrothermal origin of halogens at Home Plate, Gusev Crater. Journal of Geophysical Research, 2008, 113, .	3.3	71
116	Structure, stratigraphy, and origin of Husband Hill, Columbia Hills, Gusev Crater, Mars. Journal of Geophysical Research, 2008, 113, .	3.3	44
117	Modeling fractional crystallization of group IVB iron meteorites. Geochimica Et Cosmochimica Acta, 2008, 72, 2198-2216.	3.9	136
118	The formation and chronology of the PAT 91501 impact-melt L chondrite with vesicleâ€“metalâ€“sulfide assemblages. Geochimica Et Cosmochimica Acta, 2008, 72, 2417-2428.	3.9	38
119	Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. Journal of Geophysical Research, 2008, 113, .	3.3	99
120	Geochemical properties of rocks and soils in Gusev Crater, Mars: Results of the Alpha Particle Xâ€Ray Spectrometer from Cumberland Ridge to Home Plate. Journal of Geophysical Research, 2008, 113, .	3.3	162
121	Iron mineralogy and aqueous alteration from Husband Hill through Home Plate at Gusev Crater, Mars: Results from the MÃ¶ssbauer instrument on the Spirit Mars Exploration Rover. Journal of Geophysical Research, 2008, 113, .	3.3	162
122	Partial melting of H6 ordinary chondrite KernouvÃ©: Constraints on the effects of reducing conditions on oxidized compositions. Meteoritics and Planetary Science, 2008, 43, 1399-1414.	1.6	15
123	Mineral evolution. American Mineralogist, 2008, 93, 1693-1720.	1.9	569
124	Reflectance and Color Variations on Mercury: Regolith Processes and Compositional Heterogeneity. Science, 2008, 321, 66-69.	12.6	167
125	Detection of Silica-Rich Deposits on Mars. Science, 2008, 320, 1063-1067.	12.6	399
126	Ancient Asteroids Enriched in Refractory Inclusions. Science, 2008, 320, 514-517.	12.6	71

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127	Spectroscopic Observations of Mercury's Surface Reflectance During MESSENGER's First Mercury Flyby. Science, 2008, 321, 62-65.	12.6	94
128	Olivineâ€dominated asteroids and meteorites: Distinguishing nebular and igneous histories. Meteoritics and Planetary Science, 2007, 42, 155-170.	1.6	76
129	The effect of Ni on element partitioning during iron meteorite crystallization. Meteoritics and Planetary Science, 2007, 42, 1735-1750.	1.6	26
130	Oxideâ€bearing and FeOâ€rich clasts in aubrites. Meteoritics and Planetary Science, 2006, 41, 495-503.	1.6	9
131	Spectral properties of angrites. Meteoritics and Planetary Science, 2006, 41, 1139-1145.	1.6	26
132	Asteroid 3628 BoÅ¾nÄ›mcovÃ¡: Covered with angrite-like basalts?. Meteoritics and Planetary Science, 2006, 41, 1147-1161.	1.6	11
133	Alkaline volcanic rocks from the Columbia Hills, Gusev crater, Mars. Journal of Geophysical Research, 2006, 111, .	3.3	148
134	Formation of vesicles in asteroidal basaltic meteorites. Earth and Planetary Science Letters, 2006, 246, 102-108.	4.4	41
135	Graves Nunataks 95209: A snapshot of metal segregation and core formation. Geochimica Et Cosmochimica Acta, 2006, 70, 516-531.	3.9	43
136	Nickel on Mars: Constraints on meteoritic material at the surface. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	65
137	Minor element evidence that Asteroid 433 Eros is a space-weathered ordinary chondrite parent body. Icarus, 2006, 184, 338-343.	2.5	44
138	Asteroid Differentiation. , 2006, , 733-746.		51
139	Systematics and Evaluation of Meteorite Classification. , 2006, , 19-52.		335
140	Shock melts in QUE 94411, Hammadah al Hamra 237, and Bencubbin: Remains of the missing matrix?. Meteoritics and Planetary Science, 2005, 40, 1377-1391.	1.6	27
141	Thermodynamic constraints on the formation conditions of winonaites and silicate-bearing IAB irons. Geochimica Et Cosmochimica Acta, 2005, 69, 5123-5131.	3.9	61
142	Oxygen isotopic compositions of IVA iron meteorites: implications for the thermal evolution derived from in situ ultraviolet laser microprobe analyses. Geochimica Et Cosmochimica Acta, 2004, 68, 1159-1171.	3.9	20
143	Highâ€calcium pyroxene as an indicator of igneous differentiation in asteroids and meteorites. Meteoritics and Planetary Science, 2004, 39, 1343-1357.	1.6	96
144	The Meteoritical Bulletin, No. 87, 2003 July. Meteoritics and Planetary Science, 2003, 38, A189.	1.6	88

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145	The Near Earth Asteroid Rendezvous Mission to Asteroid 433 Eros: A Milestone in the Study of Asteroids and their Relationship to Meteorites. Chemie Der Erde, 2002, 62, 89-121.	2.0	17
146	Spectra of extremely reduced assemblages: Implications for Mercury. Meteoritics and Planetary Science, 2002, 37, 1233-1244.	1.6	108
147	Meteoritic Parent Bodies:. , 2002, , 653-668.		124
148	The NEARâ€Shoemaker xâ€ray/gammaâ€ray spectrometer experiment: Overview and lessons learned. Meteoritics and Planetary Science, 2001, 36, 1605-1616.	1.6	19
149	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
150	The composition of 433 Eros: A mineralogicalâ€”chemical synthesis. Meteoritics and Planetary Science, 2001, 36, 1661-1672.	1.6	93
151	Xâ€ray fluorescence measurements of the surface elemental composition of asteroid 433 Eros. Meteoritics and Planetary Science, 2001, 36, 1673-1695.	1.6	110
152	Vesta, Vestoids, and the howardite, eucrite, diogenite group: Relationships and the origin of spectral differences. Meteoritics and Planetary Science, 2001, 36, 761-781.	1.6	173
153	Anatomy of a Partially Differentiated Asteroid: A â€œNEARâ€•Sighted View of Acapulcoites and Lodranites. Icarus, 2000, 148, 29-36.	2.5	27
154	Chronology and petrology of silicates from IIE iron meteorites: evidence of a complex parent body evolution. Geochimica Et Cosmochimica Acta, 2000, 64, 2133-2154.	3.9	68
155	A petrologic study of the IAB iron meteorites: Constraints on the formation of the IABâ€Winonaite parent body. Meteoritics and Planetary Science, 2000, 35, 1127-1141.	1.6	165
156	The Elemental Composition of Asteroid 433 Eros: Results of the NEAR-Shoemaker X-ray Spectrometer. Science, 2000, 289, 2101-2105.	12.6	123
157	Partial melting of the Indarch (EH4) meteorite: A textural, chemical, and phase relations view of melting and melt migration. Meteoritics and Planetary Science, 1999, 34, 735-746.	1.6	164
158	New lithologies in the Zagami meteorite: evidence for fractional crystallization of a single magma unit on Mars. Geochimica Et Cosmochimica Acta, 1999, 63, 1249-1262.	3.9	52
159	The Burnwell, Kentucky, low iron oxide chondrite fall: Description, classification and origin. Meteoritics and Planetary Science, 1998, 33, 853-856.	1.6	26
160	A petrologic and isotopic study of winonaites: evidence for early partial melting, brecciation, and metamorphism. Geochimica Et Cosmochimica Acta, 1998, 62, 2535-2553.	3.9	112
161	Chapter 4. NON-CHONDRITIC METEORITES FROM ASTEROIDAL BODIES. , 1998, , 523-718.		242
162	A petrologic and isotopic study of lodranites: Evidence for early formation as partial melt residues from heterogeneous precursors. Geochimica Et Cosmochimica Acta, 1997, 61, 623-637.	3.9	169

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163	Partial melting and melt migration in the acapulcoite-lodranite parent body. Geochimica Et Cosmochimica Acta, 1997, 61, 639-650.	3.9	142
164	Experimental rareâ€earthâ€element partitioning in oldhamite: Implications for the igneous origin of aubritic oldhamite. Meteoritics and Planetary Science, 1997, 32, 395-412.	1.6	19
165	Monnig collection meteorites from Forestburg, Davy, Harrison Township and Gurram Kond. Meteoritics and Planetary Science, 1997, 32, A167.	1.6	1
166	Core crystallization and silicate-metal mixing in the parent body of the IVA iron and stony-iron meteorites. Geochimica Et Cosmochimica Acta, 1996, 60, 1615-1631.	3.9	57
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