

Scott M Mcleennan

List of Publications by Year in descending order

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209
papers

32,576
citations

4120

87
h-index

4203

174
g-index

218
all docs

218
docs citations

218
times ranked

14804
citing authors

#	ARTICLE	IF	CITATIONS
1	The geochemical evolution of the continental crust. <i>Reviews of Geophysics</i> , 1995, 33, 241.	9.0	3,475
2	Relationships between the trace element composition of sedimentary rocks and upper continental crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2001, 2, n/a-n/a.	1.0	1,537
3	Geochemical approaches to sedimentation, provenance, and tectonics. <i>Special Paper of the Geological Society of America</i> , 1993, , 21-40.	0.5	1,289
4	Weathering and Global Denudation. <i>Journal of Geology</i> , 1993, 101, 295-303.	0.7	1,098
5	Chapter 7. RARE EARTH ELEMENTS IN SEDIMENTARY ROCKS: INFLUENCE OF PROVENANCE AND SEDIMENTARY PROCESSES. , 1989, , 169-200.		1,040
6	Geochemical and Nd–Sr isotopic composition of deep-sea turbidites: Crustal evolution and plate tectonic associations. <i>Geochimica Et Cosmochimica Acta</i> , 1990, 54, 2015-2050.	1.6	936
7	In Situ Evidence for an Ancient Aqueous Environment at Meridiani Planum, Mars. <i>Science</i> , 2004, 306, 1709-1714.	6.0	845
8	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
9	Sedimentary Rocks and Crustal Evolution: Tectonic Setting and Secular Trends. <i>Journal of Geology</i> , 1991, 99, 1-21.	0.7	677
10	Effects of Chemical Weathering and Sorting on the Petrogenesis of Siliciclastic Sediments, with Implications for Provenance Studies. <i>Journal of Geology</i> , 1996, 104, 525-542.	0.7	588
11	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
12	The Opportunity Rover's Athena Science Investigation at Meridiani Planum, Mars. <i>Science</i> , 2004, 306, 1698-1703.	6.0	507
13	Provenance and diagenesis of the evaporite-bearing Burns formation, Meridiani Planum, Mars. <i>Earth and Planetary Science Letters</i> , 2005, 240, 95-121.	1.8	506
14	Stratigraphy and sedimentology of a dry to wet eolian depositional system, Burns formation, Meridiani Planum, Mars. <i>Earth and Planetary Science Letters</i> , 2005, 240, 11-72.	1.8	496
15	Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	6.0	475
16	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015, 350, aac7575.	6.0	471
17	Geochemistry of loess, continental crustal composition and crustal model ages. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 1897-1905.	1.6	461
18	The Spirit Rover's Athena Science Investigation at Gusev Crater, Mars. <i>Science</i> , 2004, 305, 794-799.	6.0	404

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19	Detection of Silica-Rich Deposits on Mars. <i>Science</i> , 2008, 320, 1063-1067.	6.0	399
20	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
21	Chemistry and mineralogy of outcrops at Meridiani Planum. <i>Earth and Planetary Science Letters</i> , 2005, 240, 73-94.	1.8	349
22	An integrated view of the chemistry and mineralogy of martian soils. <i>Nature</i> , 2005, 436, 49-54.	13.7	348
23	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
24	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	6.0	327
25	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
26	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	6.0	323
27	Rare earth element-thorium correlations in sedimentary rocks, and the composition of the continental crust. <i>Geochimica Et Cosmochimica Acta</i> , 1980, 44, 1833-1839.	1.6	309
28	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
29	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020, 13, 183-189.	5.4	274
30	Geochemistry of Archean shales from the Pilbara Supergroup, Western Australia. <i>Geochimica Et Cosmochimica Acta</i> , 1983, 47, 1211-1222.	1.6	266
31	Early Proterozoic crustal evolution: Geochemical and NdPb isotopic evidence from metasedimentary rocks, southwestern North America. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 1153-1177.	1.6	249
32	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
33	Water alteration of rocks and soils on Mars at the Spirit rover site in Gusev crater. <i>Nature</i> , 2005, 436, 66-69.	13.7	240
34	Overview of the Spirit Mars Exploration Rover Mission to Gusev Crater: Landing site to Backstay Rock in the Columbia Hills. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	238
35	Geochemical Constraints on the Growth of the Continental Crust. <i>Journal of Geology</i> , 1982, 90, 347-361.	0.7	231
36	Geochemical modeling of evaporation processes on Mars: Insight from the sedimentary record at Meridiani Planum. <i>Earth and Planetary Science Letters</i> , 2005, 240, 122-148.	1.8	226

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37	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	6.0	224
38	Water Activity and the Challenge for Life on Early Mars. <i>Science</i> , 2008, 320, 1204-1207.	6.0	222
39	Geochemistry and provenance of the Middle Ordovician Austin Glen Member (Normanskill Formation) and the Taconian Orogeny in New England. <i>Sedimentology</i> , 1998, 45, 635-655.	1.6	216
40	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215
41	Redox stratification of an ancient lake in Gale crater, Mars. <i>Science</i> , 2017, 356, .	6.0	209
42	Acid-sulfate weathering of synthetic Martian basalt: The acid fog model revisited. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	199
43	Large ion lithophile elements in rocks from high-pressure granulite facies terrains. <i>Geochimica Et Cosmochimica Acta</i> , 1985, 49, 1645-1655.	1.6	198
44	Rare earth element geochemistry and the "tetrad" effect. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 2025-2033.	1.6	193
45	Two Years at Meridiani Planum: Results from the Opportunity Rover. <i>Science</i> , 2006, 313, 1403-1407.	6.0	188
46	Geochemical evolution of Archean shales from South Africa. I. The Swaziland and Pongola Supergroups. <i>Precambrian Research</i> , 1983, 22, 93-124.	1.2	180
47	Ancient Impact and Aqueous Processes at Endeavour Crater, Mars. <i>Science</i> , 2012, 336, 570-576.	6.0	176
48	Ancient Aqueous Environments at Endeavour Crater, Mars. <i>Science</i> , 2014, 343, 1248097.	6.0	176
49	Th and U in sedimentary rocks: crustal evolution and sedimentary recycling. <i>Nature</i> , 1980, 285, 621-624.	13.7	173
50	In situ and experimental evidence for acidic weathering of rocks and soils on Mars. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	169
51	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021, 217, 4.	3.7	160
52	Rare earth element patterns in Archean high-grade metasediments and their tectonic significance. <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 2267-2279.	1.6	156
53	Soils of Eagle Crater and Meridiani Planum at the Opportunity Rover Landing Site. <i>Science</i> , 2004, 306, 1723-1726.	6.0	153
54	Pancam Multispectral Imaging Results from the Spirit Rover at Gusev Crater. <i>Science</i> , 2004, 305, 800-806.	6.0	153

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55	Overview of the Opportunity Mars Exploration Rover Mission to Meridiani Planum: Eagle Crater to Purgatory Ripple. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	149
56	Sulfur on Mars. <i>Elements</i> , 2010, 6, 107-112.	0.5	148
57	Evidence from Opportunity's Microscopic Imager for Water on Meridiani Planum. <i>Science</i> , 2004, 306, 1727-1730.	6.0	146
58	Samarium/neodymium elemental and isotopic systematics in sedimentary rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1992, 56, 887-898.	1.6	142
59	Exploration of Victoria Crater by the Mars Rover Opportunity. <i>Science</i> , 2009, 324, 1058-1061.	6.0	141
60	Gusev crater: Wind-related features and processes observed by the Mars Exploration Rover Spirit. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	140
61	A $^{143}\text{Sm}/^{147}\text{Sm}$ record of water-limited, acidic weathering conditions on Mars. <i>Earth and Planetary Science Letters</i> , 2007, 260, 432-443.	1.8	140
62	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021, 373, 438-443.	6.0	140
63	Recalibration of the Mars Science Laboratory ChemCam instrument with an expanded geochemical database. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 64-85.	1.5	137
64	Pancam Multispectral Imaging Results from the Opportunity Rover at Meridiani Planum. <i>Science</i> , 2004, 306, 1703-1709.	6.0	135
65	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239-463.	6.0	134
66	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	131
67	Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager. <i>Science</i> , 2004, 305, 824-826.	6.0	130
68	Rare earth element mobility associated with uranium mineralisation. <i>Nature</i> , 1979, 282, 247-250.	13.7	121
69	An astrobiological perspective on Meridiani Planum. <i>Earth and Planetary Science Letters</i> , 2005, 240, 179-189.	1.8	113
70	Geochemical diversity in first rocks examined by the Curiosity Rover in Gale Crater: Evidence for and significance of an alkali and volatile-rich igneous source. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 64-81.	1.5	113
71	Resetting of neodymium isotopes and redistribution of REEs during sedimentary processes: The Early Proterozoic Chelmsford Formation, Sudbury Basin, Ontario, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 931-941.	1.6	112
72	Geochemistry of Archean metasedimentary rocks from West Greenland. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 1-13.	1.6	110

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73	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 7398-7407.	1.5	110
74	Sedimentary silica on Mars. <i>Geology</i> , 2003, 31, 315.	2.0	109
75	Chemical divides and evaporite assemblages on Mars. <i>Earth and Planetary Science Letters</i> , 2006, 241, 21-31.	1.8	108
76	Light-toned salty soils and coexisting Si-rich species discovered by the Mars Exploration Rover Spirit in Columbia Hills. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	108
77	Rare earth element redistribution and its effects on the neodymium isotope system in the Austin Glen Member of the Normanskill Formation, New York, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 5245-5253.	1.6	107
78	Mineralogy of the light-toned outcrop at Meridiani Planum as seen by the Miniature Thermal Emission Spectrometer and implications for its formation. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	107
79	Opportunity Mars Rover mission: Overview and selected results from Purgatory ripple to traverses to Endeavour crater. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	106
80	Upper mantle structure of Mars from InSight seismic data. <i>Science</i> , 2021, 373, 434-438.	6.0	105
81	Geochemical Reservoirs and Timing of Sulfur Cycling on Mars. <i>Space Science Reviews</i> , 2013, 174, 251-300.	3.7	103
82	Spirit Mars Rover Mission to the Columbia Hills, Gusev Crater: Mission overview and selected results from the Cumberland Ridge to Home Plate. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	99
83	Heat Flow and the Chemical Composition of Continental Crust. <i>Journal of Geology</i> , 1996, 104, 369-377.	0.7	96
84	Detrital Zircon Geochronology of Taconian and Acadian Foreland Sedimentary Rocks in New England. <i>Journal of Sedimentary Research</i> , 2001, 71, 305-317.	0.8	96
85	Wind-Related Processes Detected by the Spirit Rover at Gusev Crater, Mars. <i>Science</i> , 2004, 305, 810-813.	6.0	94
86	Mars Sedimentary Geology: Key Concepts and Outstanding Questions. <i>Astrobiology</i> , 2011, 11, 77-87.	1.5	93
87	Rare earth elements in Huronian (Lower Proterozoic) sedimentary rocks: Composition and evolution of the post-Kenoran upper crust. <i>Geochimica Et Cosmochimica Acta</i> , 1979, 43, 375-388.	1.6	92
88	Pb isotope compositions of modern deep sea turbidites. <i>Earth and Planetary Science Letters</i> , 2001, 184, 489-503.	1.8	91
89	Trace element geochemistry (Li, Ba, Sr, and Rb) using <i>Curiosity's</i> ChemCam: Early results for Gale crater from Bradbury Landing Site to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 255-285.	1.5	86
90	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. <i>Science</i> , 2021, 374, 711-717.	6.0	86

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91	Effects of sedimentary sorting on neodymium isotopes in deep-sea turbidites. <i>Nature</i> , 1989, 337, 547-549.	13.7	83
92	Chemical relationships among irghizites, zhamanshinites, Australasian tektites and Henbury impact glasses. <i>Geochimica Et Cosmochimica Acta</i> , 1979, 43, 1551-1565.	1.6	76
93	Production of hydrogen peroxide in Martian and lunar soils. <i>Earth and Planetary Science Letters</i> , 2007, 255, 41-52.	1.8	73
94	Fe oxidation processes at Meridiani Planum and implications for secondary Fe mineralogy on Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	73
95	Constraints on abundance, composition, and nature of X-ray amorphous components of soils and rocks at Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 2640-2657.	1.5	73
96	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , 2019, 54, S3.	0.7	73
97	Geochemistry of the Archean Yellowknife Supergroup. <i>Geochimica Et Cosmochimica Acta</i> , 1981, 45, 1111-1129.	1.6	71
98	Improved accuracy in quantitative laser-induced breakdown spectroscopy using sub-models. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017, 129, 49-57.	1.5	71
99	Mineralogic controls on REE mobility during black-shale diagenesis. <i>Journal of Sedimentary Research</i> , 1999, 69, 1071-1082.	0.8	67
100	The potassic sedimentary rocks in Gale Crater, Mars, as seen by ChemCam on board <i>Curiosity</i> . <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 784-804.	1.5	67
101	Geochemical and Nd/Pb Isotopic Evidence for the Provenance of the Early Proterozoic Virginia Formation, Minnesota. Implications for the Tectonic Setting of the Animikie Basin. <i>Journal of Geology</i> , 1995, 103, 147-168.	0.7	66
102	Martian surface heat production and crustal heat flow from Mars Odyssey Gamma-Ray spectrometry. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	66
103	Nickel on Mars: Constraints on meteoritic material at the surface. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	65
104	Sulfur-bearing phases detected by evolved gas analysis of the Rocknest aeolian deposit, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 373-393.	1.5	65
105	Sorting out compositional trends in sedimentary rocks of the Bradbury group (Aeolis Palus), Gale crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 295-328.	1.5	64
106	Chapter 79 The significance of the rare earths in geochemistry and cosmochemistry. <i>Fundamental Theories of Physics</i> , 1988, 11, 485-578.	0.1	62
107	The sedimentary rock cycle of Mars. , 2008, , 541-577.		61
108	Recycling of the continental crust. <i>Pure and Applied Geophysics</i> , 1988, 128, 683-724.	0.8	60

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109	The Sedimentary Cycle on Early Mars. <i>Annual Review of Earth and Planetary Sciences</i> , 2019, 47, 91-118.	4.6	59
110	A petrographic approach for evaluating trace-element mobility in a black shale. <i>Journal of Sedimentary Research</i> , 1998, 68, 970-980.	0.8	58
111	PIXL: Planetary Instrument for X-Ray Lithochemistry. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	58
112	Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	57
113	Continental freeboard, sedimentation rates and growth of continental crust. <i>Nature</i> , 1983, 306, 169-172.	13.7	56
114	Visible and near-infrared multispectral analysis of rocks at Meridiani Planum, Mars, by the Mars Exploration Rover Opportunity. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	56
115	High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars. <i>American Mineralogist</i> , 2016, 101, 1389-1405.	0.9	55
116	Nd and Pb isotopic evidence for provenance and post-depositional alteration of the Paleoproterozoic Huronian Supergroup, Canada. <i>Precambrian Research</i> , 2000, 102, 263-278.	1.2	53
117	Crustal heat production and the thermal evolution of Mars. <i>Geophysical Research Letters</i> , 2001, 28, 4019-4022.	1.5	53
118	Variations in K/Th on Mars. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	53
119	Composition of conglomerates analyzed by the Curiosity rover: Implications for Gale Crater crust and sediment sources. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 353-387.	1.5	53
120	Large sulfur isotope fractionations in Martian sediments at Gale crater. <i>Nature Geoscience</i> , 2017, 10, 658-662.	5.4	53
121	Experimental epithermal alteration of synthetic Los Angeles meteorite: Implications for the origin of Martian soils and identification of hydrothermal sites on Mars. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	52
122	Chemical alteration of fine-grained sedimentary rocks at Gale crater. <i>Icarus</i> , 2019, 321, 619-631.	1.1	52
123	A lower crustal origin for massif-type anorthosites. <i>Nature</i> , 1984, 311, 372-374.	13.7	50
124	The geochemistry of the carbonate-rich Espanola Formation (Huronian) with emphasis on the rare earth elements. <i>Canadian Journal of Earth Sciences</i> , 1979, 16, 230-239.	0.6	48
125	Classification scheme for sedimentary and igneous rocks in Gale crater, Mars. <i>Icarus</i> , 2017, 284, 1-17.	1.1	46
126	InSight Constraints on the Global Character of the Martian Crust. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	45

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127	chemical composition of martian soil and rocks: Complex mixing and sedimentary transport. <i>Geophysical Research Letters</i> , 2000, 27, 1335-1338.	1.5	44
128	Chemically striking regions on Mars and Stealth revisited. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	43
129	On the geochemical evolution of sedimentary rocks. <i>Chemical Geology</i> , 1982, 37, 335-350.	1.4	40
130	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022, 188, 106347.	1.5	40
131	Large- ϵ ion lithophile element fractionation during the early differentiation of Mars and the composition of the martian primitive mantle. <i>Meteoritics and Planetary Science</i> , 2003, 38, 895-904.	0.7	39
132	Surface processes recorded by rocks and soils on Meridiani Planum, Mars: Microscopic Imager observations during Opportunity's first three extended missions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	39
133	Smectite deposits in Marathon Valley, Endeavour Crater, Mars, identified using CRISM hyperspectral reflectance data. <i>Geophysical Research Letters</i> , 2016, 43, 4885-4892.	1.5	39
134	Geochemical standards for sedimentary rocks: Trace-element data for U.S.G.S. standards SCo-1, MAG-1 and SGR-1. <i>Chemical Geology</i> , 1980, 29, 333-343.	1.4	38
135	Hematite spherules at Meridiani: Results from MI, Mini- α TES, and Pancam. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	38
136	Physicochemical properties of concentrated Martian surface waters. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	35
137	Sulfates hydrating bulk soil in the Martian low and middle latitudes. <i>Geophysical Research Letters</i> , 2014, 41, 7987-7996.	1.5	35
138	Sediments and Soils: Chemistry and Abundances. <i>AGU Reference Shelf</i> , 0, , 8-19.	0.6	33
139	Stability and fate of ferrihydrite during episodes of water/rock interactions on early Mars: An experimental approach. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 358-382.	1.5	33
140	Archaean Sedimentary Rocks and Their Relation to the Composition of the Archaean Continental Crust. , 1984, , 47-72.		33
141	Mars Reconnaissance Orbiter and Opportunity observations of the Burns formation: Crater hopping at Meridiani Planum. <i>Journal of Geophysical Research E: Planets</i> , 2015, 120, 429-451.	1.5	30
142	K and Cl concentrations on the Martian surface determined by the Mars Odyssey Gamma Ray Spectrometer: Implications for bulk halogen abundances in Mars. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	29
143	Bedrock formation at Meridiani Planum. <i>Nature</i> , 2006, 443, E1-E2.	13.7	28
144	Mars Odyssey Gamma Ray Spectrometer elemental abundances and apparent relative surface age: Implications for Martian crustal evolution. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	28

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145	Photochemical controls on chlorine and bromine geochemistry at the Martian surface. <i>Earth and Planetary Science Letters</i> , 2018, 497, 102-112.	1.8	28
146	Chapter 21 The Rare Earth Element Evidence in Precambrian Sedimentary Rocks: Implications for Crustal Evolution. <i>Neoproterozoic-Cambrian Tectonics, Global Change and Evolution: A Focus on South Western Gondwana</i> , 1981, 4, 527-548.	0.2	27
147	Mixing relationships and the effects of secondary alteration in the Wishstone and Watchtower Classes of Husband Hill, Gusev Crater, Mars. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	27
148	Application of the Pitzer ion interaction model to isopiestic data for the $\text{Fe}_2(\text{SO}_4)_3\text{-H}_2\text{SO}_4\text{-H}_2\text{O}$ system at 298.15 and 323.15K. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 2680-2698.	1.6	27
149	The Spirit Rover's Athena science investigation at Gusev Crater, Mars. <i>Science</i> , 2004, 305, 794-9.	6.0	27
150	The chemical composition of the Archaean crust. <i>Geological Society Special Publication</i> , 1986, 24, 173-178.	0.8	25
151	The CanMars Mars Sample Return analogue mission. <i>Planetary and Space Science</i> , 2019, 166, 110-130.	0.9	25
152	Experimental constraints on the evaporation of partially oxidized acid-sulfate waters at the martian surface. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1205-1222.	1.6	24
153	The Taconian orogeny in southern New England: Nd-isotope evidence against addition of juvenile components. <i>Canadian Journal of Earth Sciences</i> , 1996, 33, 1612-1627.	0.6	23
154	X-Ray Amorphous Components in Sedimentary Rocks of Gale Crater, Mars: Evidence for Ancient Formation and Long-Lived Aqueous Activity. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006782.	1.5	22
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