

Scott M McLennan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

205
papers

25,319
citations

79
h-index

158
g-index

216
ext. papers

28,572
ext. citations

12.9
avg, IF

6.75
L-index

#	Paper	IF	Citations
205	Post-landing major element quantification using SuperCam laser induced breakdown spectroscopy. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2022 , 188, 106347	3.1	5
204	Composition of planetary crusts and planetary differentiation 2022 , 287-331		1
203	Perseverance rover reveals an ancient delta-lake system and flood deposits at Jezero crater, Mars. <i>Science</i> , 2021 , 374, 711-717	33.3	15
202	The SuperCam Instrument Suite on the NASA Mars 2020 Rover: Body Unit and Combined System Tests. <i>Space Science Reviews</i> , 2021 , 217, 4	7.5	64
201	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	4.1	182
200	The SuperCam Instrument Suite on the Mars 2020 Rover: Science Objectives and Mast-Unit Description. <i>Space Science Reviews</i> , 2021 , 217, 1	7.5	37
199	Seismic Velocity Variations in a 3D Martian Mantle: Implications for the InSight Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006755	4.1	4
198	Thickness and structure of the martian crust from InSight seismic data. <i>Science</i> , 2021 , 373, 438-443	33.3	54
197	Upper mantle structure of Mars from InSight seismic data. <i>Science</i> , 2021 , 373, 434-438	33.3	45
196	Stuart Ross Taylor (1925-2021): A tribute to his life and scientific career. <i>Meteoritics and Planetary Science</i> , 2021 , 56, 1784-1791	2.8	
195	Chlorine Release From Common Chlorides by Martian Dust Activity. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006283	4.1	6
194	Reevaluation of Perchlorate in Gale Crater Rocks Suggests Geologically Recent Perchlorate Addition. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006156	4.1	4
193	Initial results from the InSight mission on Mars. <i>Nature Geoscience</i> , 2020 , 13, 183-189	18.3	155
192	Extraformational sediment recycling on Mars 2020 , 16, 1508-1537		10
191	Amorphization of S, Cl-Salts Induced by Martian Dust Activities. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006701	4.1	3
190	PIXL: Planetary Instrument for X-Ray Lithochemistry. <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	14
189	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , 2019 , 54, S3-S152	2.8	45

188	The potential science and engineering value of samples delivered to Earth by Mars sample return. <i>Meteoritics and Planetary Science</i> , 2019 , 54, 667-671	2.8	2
187	The CanMars Mars Sample Return analogue mission. <i>Planetary and Space Science</i> , 2019 , 166, 110-130	2	20
186	Mars Exploration Rover Opportunity 2019 , 285-328		4
185	Chemical alteration of fine-grained sedimentary rocks at Gale crater. <i>Icarus</i> , 2019 , 321, 619-631	3.8	31
184	The Sedimentary Cycle on Early Mars. <i>Annual Review of Earth and Planetary Sciences</i> , 2019 , 47, 91-118	15.3	39
183	Photochemical controls on chlorine and bromine geochemistry at the Martian surface. <i>Earth and Planetary Science Letters</i> , 2018 , 497, 102-112	5.3	18
182	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	3.1	90
181	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	4.1	50
180	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	4.1	26
179	Redox stratification of an ancient lake in Gale crater, Mars. <i>Science</i> , 2017 , 356,	33.3	156
178	Improved accuracy in quantitative laser-induced breakdown spectroscopy using sub-models. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2017 , 129, 49-57	3.1	50
177	Large sulfur isotope fractionations in Martian sediments at Gale crater. <i>Nature Geoscience</i> , 2017 , 10, 658-662	18.3	38
176	Classification scheme for sedimentary and igneous rocks in Gale crater, Mars. <i>Icarus</i> , 2017 , 284, 1-17	3.8	36
175	Geochemical constraints on the presence of clay minerals in the Burns formation, Meridiani Planum, Mars. <i>Icarus</i> , 2017 , 281, 137-150	3.8	16
174	The association of hydrogen with sulfur on Mars across latitudes, longitudes, and compositional extremes. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 1321-1341	4.1	7
173	Smectite deposits in Marathon Valley, Endeavour Crater, Mars, identified using CRISM hyperspectral reflectance data. <i>Geophysical Research Letters</i> , 2016 , 43, 4885-4892	4.9	32
172	Discordant K-Ar and young exposure dates for the Windjana sandstone, Kimberley, Gale Crater, Mars. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 2176-2192	4.1	17
171	The potassic sedimentary rocks in Gale Crater, Mars, as seen by ChemCam on board Curiosity. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 784-804	4.1	55

170	Oxidation of manganese in an ancient aquifer, Kimberley formation, Gale crater, Mars. <i>Geophysical Research Letters</i> , 2016 , 43, 7398-7407	4.9	76
169	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	4.1	46
168	Presentation of the Mineralogical Society of America Award for 2015 to Nicholas J. Tosca. <i>American Mineralogist</i> , 2016 , 101, 998-999	2.9	
167	High concentrations of manganese and sulfur in deposits on Murray Ridge, Endeavour Crater, Mars. <i>American Mineralogist</i> , 2016 , 101, 1389-1405	2.9	40
166	Deposition, exhumation, and paleoclimate of an ancient lake deposit, Gale crater, Mars. <i>Science</i> , 2015 , 350, aac7575	33.3	358
165	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	4.1	26
164	Volatile and organic compositions of sedimentary rocks in Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1245267	33.3	277
163	A habitable fluvio-lacustrine environment at Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1242333	33.3	536
162	Mineralogy of a mudstone at Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1243480	33.3	344
161	Mars' surface radiation environment measured with the Mars Science Laboratory's Curiosity rover. <i>Science</i> , 2014 , 343, 1244797	33.3	343
160	In situ radiometric and exposure age dating of the martian surface. <i>Science</i> , 2014 , 343, 1247166	33.3	176
159	Elemental geochemistry of sedimentary rocks at Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1244734	33.3	205
158	Ancient aqueous environments at Endeavour crater, Mars. <i>Science</i> , 2014 , 343, 1248097	33.3	132
157	A martian case study of segmenting images automatically for granulometry and sedimentology, Part 1: Algorithm. <i>Icarus</i> , 2014 , 229, 400-407	3.8	9
156	Behavior of bromide, chloride, and phosphate during low-temperature aqueous Fe(II) oxidation processes on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 998-1012	4.1	6
155	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	4.1	87
154	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	4.1	50
153	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	4.1	59

152	Sulfates hydrating bulk soil in the Martian low and middle latitudes. <i>Geophysical Research Letters</i> , 2014 , 41, 7987-7996	4.9	26
151	Trace element geochemistry (Li, Ba, Sr, and Rb) using Curiosity's ChemCam: Early results for Gale crater from Bradbury Landing Site to Rocknest. <i>Journal of Geophysical Research E: Planets</i> , 2014 , 119, 255-285	4.1	71
150	A martian case study of segmenting images automatically for granulometry and sedimentology, Part 2: Assessment. <i>Icarus</i> , 2014 , 229, 408-417	3.8	3
149	Does martian soil release reactive halogens to the atmosphere?. <i>Icarus</i> , 2013 , 226, 1438-1446	3.8	12
148	X-ray diffraction results from Mars Science Laboratory: mineralogy of Rocknest at Gale crater. <i>Science</i> , 2013 , 341, 1238932	33.3	217
147	Curiosity at Gale crater, Mars: characterization and analysis of the Rocknest sand shadow. <i>Science</i> , 2013 , 341, 1239505	33.3	222
146	Abundance and isotopic composition of gases in the martian atmosphere from the Curiosity rover. <i>Science</i> , 2013 , 341, 263-6	33.3	265
145	Volatile, isotope, and organic analysis of martian fines with the Mars Curiosity rover. <i>Science</i> , 2013 , 341, 1238937	33.3	306
144	Geochemical Reservoirs and Timing of Sulfur Cycling on Mars. <i>Space Science Reviews</i> , 2013 , 174, 251-300	7.5	83
143	Behavior of Ni, Zn and Cr during low temperature aqueous Fe oxidation processes on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2013 , 109, 365-383	5.5	5
142	Martian fluvial conglomerates at Gale crater. <i>Science</i> , 2013 , 340, 1068-72	33.3	269
141	The petrochemistry of Jake_M: a martian mugearite. <i>Science</i> , 2013 , 341, 1239463	33.3	114
140	Electrochemical Synthesis of Nitro-Chitosan and Its Performance in Chromium Removal. <i>Coatings</i> , 2013 , 3, 140-152	2.9	5
139	Soil diversity and hydration as observed by ChemCam at Gale crater, Mars. <i>Science</i> , 2013 , 341, 1238670	33.3	185
138	Sediments and Soils: Chemistry and Abundances. <i>AGU Reference Shelf</i> , 2013 , 8-19		23
137	Geology, Geochemistry and Natural Abundances 2012 ,		2
136	Pedogenic hematitic concretions from the Triassic New Haven Arkose, Connecticut: Implications for understanding Martian diagenetic processes. <i>Chemical Geology</i> , 2012 , 312-313, 195-208	4.2	6
135	Ancient impact and aqueous processes at Endeavour Crater, Mars. <i>Science</i> , 2012 , 336, 570-6	33.3	153

134	Geochemistry of Sedimentary Processes on Mars 2012 , 119-138		7
133	Geochemical Reservoirs and Timing of Sulfur Cycling on Mars. <i>Space Sciences Series of ISSI</i> , 2012 , 251-300.	0.1	1
132	Mars sedimentary geology: key concepts and outstanding questions. <i>Astrobiology</i> , 2011 , 11, 77-87	3.7	80
131	Physicochemical properties of concentrated Martian surface waters. <i>Journal of Geophysical Research</i> , 2011 , 116,		26
130	Opportunity Mars Rover mission: Overview and selected results from Purgatory ripple to traverses to Endeavour crater. <i>Journal of Geophysical Research</i> , 2011 , 116,		74
129	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	4.9	56
128	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, n/a-n/a	4.9	27
127	Regional and grain size influences on the geochemistry of soil at Gusev crater, Mars. <i>Journal of Geophysical Research</i> , 2010 , 115,		9
126	Sulfur on Mars. <i>Elements</i> , 2010 , 6, 107-112	3.8	104
125	Exploration of Victoria crater by the Mars rover Opportunity. <i>Science</i> , 2009 , 324, 1058-61	33.3	112
124	Asteroids and andesites. <i>Nature</i> , 2009 , 459, E1; discussion E2	50.4	10
123	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	5.5	20
122	Humidity-induced phase transitions of ferric sulfate minerals studied by in situ and ex situ X-ray diffraction. <i>American Mineralogist</i> , 2009 , 94, 1629-1637	2.9	14
121	Chemically striking regions on Mars and Stealth revisited. <i>Journal of Geophysical Research</i> , 2009 , 114,		35
120	Veneers, rinds, and fracture fills: Relatively late alteration of sedimentary rocks at Meridiani Planum, Mars. <i>Journal of Geophysical Research</i> , 2008 , 113,		48
119	Fe oxidation processes at Meridiani Planum and implications for secondary Fe mineralogy on Mars. <i>Journal of Geophysical Research</i> , 2008 , 113,		55
118	Hematite spherules at Meridiani: Results from MI, Mini-TES, and Pancam. <i>Journal of Geophysical Research</i> , 2008 , 113,		29
117	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,		23

116	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,		83
115	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,		78
114	Detection of silica-rich deposits on Mars. <i>Science</i> , 2008 , 320, 1063-7	33-3	33 ⁰
113	Water activity and the challenge for life on early Mars. <i>Science</i> , 2008 , 320, 1204-7	33-3	187
112	Planetary Crusts: Their Composition, Origin and Evolution 2008 ,		68
111	Variations in K/Th on Mars. <i>Journal of Geophysical Research</i> , 2007 , 112,		35
110	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,		46
109	Production of hydrogen peroxide in Martian and lunar soils. <i>Earth and Planetary Science Letters</i> , 2007 , 255, 41-52	5-3	56
108	A ~3.5[Ga record of water-limited, acidic weathering conditions on Mars. <i>Earth and Planetary Science Letters</i> , 2007 , 260, 432-443	5-3	123
107	Application of the Pitzer ion interaction model to isopiestic data for the Fe ₂ (SO ₄) ₃ H ₂ SO ₄ H ₂ O system at 298.15 and 323.15K. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 2680-2698	5-5	27
106	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,		24
105	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		123
104	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		112
103	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		198
102	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		140
101	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		91
100	Chemical divides and evaporite assemblages on Mars. <i>Earth and Planetary Science Letters</i> , 2006 , 241, 21-31	5-3	92
99	Nickel on Mars: Constraints on meteoritic material at the surface. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		56

98	Two years at Meridiani Planum: results from the Opportunity Rover. <i>Science</i> , 2006 , 313, 1403-7	33.3	152
97	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		22
96	Planetary science: bedrock formation at Meridiani Planum. <i>Nature</i> , 2006 , 443, E1-2; discussion E2	50.4	19
95	Evidence for Water at Meridiani. <i>Elements</i> , 2006 , 2, 163-167	3.8	10
94	An astrobiological perspective on Meridiani Planum. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 179-189	5.3	99
93	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	5.3	424
92	Chemistry and mineralogy of outcrops at Meridiani Planum. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 73-94	5.3	298
91	Provenance and diagenesis of the evaporite-bearing Burns formation, Meridiani Planum, Mars. <i>Earth and Planetary Science Letters</i> , 2005 , 240, 95-121	5.3	425
90	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	5.3	196
89	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,		42
88	An integrated view of the chemistry and mineralogy of martian soils. <i>Nature</i> , 2005 , 436, 49-54	50.4	299
87	Water alteration of rocks and soils on Mars at the Spirit rover site in Gusev crater. <i>Nature</i> , 2005 , 436, 66-9	50.4	215
86	Wind-related processes detected by the Spirit Rover at Gusev Crater, Mars. <i>Science</i> , 2004 , 305, 810-3	33.3	89
85	Soils of Eagle crater and Meridiani Planum at the Opportunity Rover landing site. <i>Science</i> , 2004 , 306, 1723-6	33.3	130
84	Textures of the Soils and Rocks at Gusev Crater from Spirit's Microscopic Imager. <i>Science</i> , 2004 , 305, 824-826	33.3	119
83	Evidence from Opportunity's Microscopic Imager for water on Meridiani Planum. <i>Science</i> , 2004 , 306, 1727-30	33.3	128
82	Pancam multispectral imaging results from the Spirit Rover at Gusev Crater. <i>Science</i> , 2004 , 305, 800-6	33.3	141
81	Pancam multispectral imaging results from the Opportunity Rover at Meridiani Planum. <i>Science</i> , 2004 , 306, 1703-9	33.3	107

80	In situ evidence for an ancient aqueous environment at Meridiani Planum, Mars. <i>Science</i> , 2004 , 306, 1709-1714	33.3	693
79	The Spirit Rover's Athena Science Investigation at Gusev Crater, Mars. <i>Science</i> , 2004 , 305, 794-799	33.3	358
78	The Opportunity Rover's Athena science investigation at Meridiani Planum, Mars. <i>Science</i> , 2004 , 306, 1698-703	33.3	421
77	Scale and timing of Rare Earth Element redistribution in the Taconian foreland of New England. <i>Sedimentology</i> , 2004 , 51, 885-897	3.3	11
76	Acid-sulfate weathering of synthetic Martian basalt: The acid fog model revisited. <i>Journal of Geophysical Research</i> , 2004 , 109,		164
75	Textures of the soils and rocks at Gusev Crater from Spirit's Microscopic Imager. <i>Science</i> , 2004 , 305, 824-833	33.3	5
74	The Spirit Rover's Athena science investigation at Gusev Crater, Mars. <i>Science</i> , 2004 , 305, 794-9	33.3	24
73	Sedimentary silica on Mars. <i>Geology</i> , 2003 , 31, 315	5	92
72	Large-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	2.8	35
71	Chemical Composition and Element Distribution in the Earth's Crust 2003 , 697-719		3
70	Detrital Zircon Geochronology of Taconian and Acadian Foreland Sedimentary Rocks in New England. <i>Journal of Sedimentary Research</i> , 2001 , 71, 305-317	2.1	73
69	Relationships between the trace element composition of sedimentary rocks and upper continental crust. <i>Geochemistry, Geophysics, Geosystems</i> , 2001 , 2, n/a-n/a	3.6	1161
68	Crustal heat production and the thermal evolution of Mars. <i>Geophysical Research Letters</i> , 2001 , 28, 4019-4022	4.9	50
67	Pb isotope compositions of modern deep sea turbidites. <i>Earth and Planetary Science Letters</i> , 2001 , 184, 489-503	5.3	77
66	Late Diagenetic Redistribution of Uranium and Disturbance of the U-Pb Whole Rock Isotope System in a Black Shale. <i>Journal of Sedimentary Research</i> , 2000 , 70, 1234-1245	2.1	16
65	chemical composition of martian soil and rocks: Complex mixing and sedimentary transport. <i>Geophysical Research Letters</i> , 2000 , 27, 1335-1338	4.9	36
64	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	3.9	43
63	Mineralogic controls on REE mobility during black-shale diagenesis. <i>Journal of Sedimentary Research</i> , 1999 , 69, 1071-1082	2.1	49

62	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	3.3	173
61	A petrographic approach for evaluating trace-element mobility in a black shale. <i>Journal of Sedimentary Research</i> , 1998 , 68, 970-980	2.1	41
60	Composition of the Upper Continental Crust Revisited: Insights from Sedimentary Rocks. <i>Mineralogical Magazine</i> , 1998 , 62A, 983-984	1.7	6
59	Grenvillian provenance for the amphibolite-grade Trap Falls Formation: implications for early Paleozoic tectonic history of New England. <i>Canadian Journal of Earth Sciences</i> , 1997 , 34, 1286-1294	1.5	5
58	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	1.5	20
57	Heat Flow and the Chemical Composition of Continental Crust. <i>Journal of Geology</i> , 1996 , 104, 369-377	2	82
56	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	2	476
55	The geochemical evolution of the continental crust. <i>Reviews of Geophysics</i> , 1995 , 33, 241	23.1	2732
54	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	5.5	197
53	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	2	61
52	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	5.5	93
51	Lead isotopes as a provenance tool for quartz: Examples from plutons and quartzite, northeastern Minnesota, USA. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 4455-4464	5.5	12
50	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	5.5	97
49	Rare earth element geochemistry and the tetrad effect. <i>Geochimica Et Cosmochimica Acta</i> , 1994 , 58, 2025-2033	5.5	150
48	Geochemical approaches to sedimentation, provenance, and tectonics. <i>Special Paper of the Geological Society of America</i> , 1993 , 21-40		907
47	Weathering and Global Denudation. <i>Journal of Geology</i> , 1993 , 101, 295-303	2	766
46	Samarium/neodymium elemental and isotopic systematics in sedimentary rocks. <i>Geochimica Et Cosmochimica Acta</i> , 1992 , 56, 887-898	5.5	116
45	Sedimentary Rocks and Crustal Evolution: Tectonic Setting and Secular Trends. <i>Journal of Geology</i> , 1991 , 99, 1-21	2	545

44	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	5.5	769
43	Effects of sedimentary sorting on neodymium isotopes in deep-sea turbidites. <i>Nature</i> , 1989 , 337, 547-549	0.4	69
42	Chapter 7. RARE EARTH ELEMENTS IN SEDIMENTARY ROCKS: INFLUENCE OF PROVENANCE AND SEDIMENTARY PROCESSES 1989 , 169-200		625
41	Recycling of the continental crust. <i>Pure and Applied Geophysics</i> , 1988 , 128, 683-724	2.2	48
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