

# David C Catling

## List of Publications by Year in descending order

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146  
papers

11,725  
citations

25034

57  
h-index

30087

103  
g-index

156  
all docs

156  
docs citations

156  
times ranked

7236  
citing authors

#	ARTICLE	IF	CITATIONS
1	Detection of Perchlorate and the Soluble Chemistry of Martian Soil at the Phoenix Lander Site. <i>Science</i> , 2009, 325, 64-67.	12.6	913
2	H <sub>2</sub> O at the Phoenix Landing Site. <i>Science</i> , 2009, 325, 58-61.	12.6	500
3	Evolution of a Habitable Planet. <i>Annual Review of Astronomy and Astrophysics</i> , 2003, 41, 429-463.	24.3	436
4	Biogenic Methane, Hydrogen Escape, and the Irreversible Oxidation of Early Earth. <i>Science</i> , 2001, 293, 839-843.	12.6	426
5	How Earth's atmosphere evolved to an oxic state: A status report. <i>Earth and Planetary Science Letters</i> , 2005, 237, 1-20.	4.4	329
6	Evidence for Calcium Carbonate at the Mars Phoenix Landing Site. <i>Science</i> , 2009, 325, 61-64.	12.6	300
7	Why O <sub>2</sub> Is Required by Complex Life on Habitable Planets and the Concept of Planetary "Oxygenation Time". <i>Astrobiology</i> , 2005, 5, 415-438.	3.0	276
8	The Archean atmosphere. <i>Science Advances</i> , 2020, 6, eaax1420.	10.3	276
9	The Ultraviolet Environment of Mars: Biological Implications Past, Present, and Future. <i>Icarus</i> , 2000, 146, 343-359.	2.5	272
10	The loss of mass-independent fractionation in sulfur due to a Palaeoproterozoic collapse of atmospheric methane. <i>Geobiology</i> , 2006, 4, 271-283.	2.4	246
11	Atmospheric origins of perchlorate on Mars and in the Atacama. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	245
12	Alteration Assemblages in Martian Meteorites: Implications for Near-Surface Processes. <i>Space Science Reviews</i> , 2001, 96, 365-392.	8.1	210
13	Constraining the climate and ocean pH of the early Earth with a geological carbon cycle model. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 4105-4110.	7.1	203
14	THE EVOLUTION OF SOLAR FLUX FROM 0.1 nm TO 160 $\mu$ m: QUANTITATIVE ESTIMATES FOR PLANETARY STUDIES. <i>Astrophysical Journal</i> , 2012, 757, 95.	4.5	192
15	Is there methane on Mars?. <i>Icarus</i> , 2011, 212, 493-503.	2.5	178
16	Discovery of Natural Perchlorate in the Antarctic Dry Valleys and Its Global Implications. <i>Environmental Science &amp; Technology</i> , 2010, 44, 2360-2364.	10.0	167
17	Air density 2.7 billion years ago limited to less than twice modern levels by fossil raindrop imprints. <i>Nature</i> , 2012, 484, 359-362.	27.8	167
18	Biogeochemical modelling of the rise in atmospheric oxygen. <i>Geobiology</i> , 2006, 4, 239-269.	2.4	156

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19	Oxidant Enhancement in Martian Dust Devils and Storms: Implications for Life and Habitability. <i>Astrobiology</i> , 2006, 6, 439-450.	3.0	144
20	The nature of coarse-grained crystalline hematite and its implications for the early environment of Mars. <i>Icarus</i> , 2003, 165, 277-300.	2.5	140
21	Exoplanet Biosignatures: A Framework for Their Assessment. <i>Astrobiology</i> , 2018, 18, 709-738.	3.0	139
22	Possible physical and thermodynamical evidence for liquid water at the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	137
23	The Cosmic Shoreline: The Evidence that Escape Determines which Planets Have Atmospheres, and what this May Mean for Proxima Centauri B. <i>Astrophysical Journal</i> , 2017, 843, 122.	4.5	134
24	Earth's air pressure 2.7 billion years ago constrained to less than half of modern levels. <i>Nature Geoscience</i> , 2016, 9, 448-451.	12.9	132
25	A statistical analysis of the carbon isotope record from the Archean to Phanerozoic and implications for the rise of oxygen. <i>Numerische Mathematik</i> , 2015, 315, 275-316.	1.4	130
26	Geochemistry of Carbonates on Mars: Implications for Climate History and Nature of Aqueous Environments. <i>Space Science Reviews</i> , 2013, 174, 301-328.	8.1	126
27	A chemical model for evaporites on early Mars: Possible sedimentary tracers of the early climate and implications for exploration. <i>Journal of Geophysical Research</i> , 1999, 104, 16453-16469.	3.3	121
28	Wet Chemistry experiments on the 2007 Phoenix Mars Scout Lander mission: Data analysis and results. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	119
29	Ultraviolet radiation on the surface of Mars and the Beagle 2 UV sensor. <i>Planetary and Space Science</i> , 2002, 50, 915-927.	1.7	118
30	Contributions to late Archaean sulphur cycling by life on land. <i>Nature Geoscience</i> , 2012, 5, 722-725.	12.9	118
31	A Two-Tiered Approach to Assessing the Habitability of Exoplanets. <i>Astrobiology</i> , 2011, 11, 1041-1052.	3.0	117
32	Photochemical instability of the ancient Martian atmosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	115
33	Disequilibrium biosignatures over Earth history and implications for detecting exoplanet life. <i>Science Advances</i> , 2018, 4, eaao5747.	10.3	111
34	Strange messenger: A new history of hydrogen on Earth, as told by Xenon. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 56-85.	3.9	109
35	Geochemical Consequences of Widespread Clay Mineral Formation in Mars's Ancient Crust. <i>Space Science Reviews</i> , 2013, 174, 329-364.	8.1	108
36	The formation of sulfate, nitrate and perchlorate salts in the martian atmosphere. <i>Icarus</i> , 2014, 231, 51-64.	2.5	108

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37	The formation of supercooled brines, viscous liquids, and low-temperature perchlorate glasses in aqueous solutions relevant to Mars. <i>Icarus</i> , 2014, 233, 36-47.	2.5	103
38	Modeling aqueous perchlorate chemistries with applications to Mars. <i>Icarus</i> , 2010, 207, 675-685.	2.5	102
39	Photochemical and climate consequences of sulfur outgassing on early Mars. <i>Earth and Planetary Science Letters</i> , 2010, 295, 412-418.	4.4	102
40	A carbonate-rich lake solution to the phosphate problem of the origin of life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 883-888.	7.1	101
41	Creation and Evolution of Impact-generated Reduced Atmospheres of Early Earth. <i>Planetary Science Journal</i> , 2020, 1, 11.	3.6	101
42	Detectability of Biosignatures in Anoxic Atmospheres with the James Webb Space Telescope: A TRAPPIST-1e Case Study. <i>Astronomical Journal</i> , 2018, 156, 114.	4.7	98
43	Soluble sulfate in the martian soil at the Phoenix landing site. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	96
44	Oxidant Enhancement in Martian Dust Devils and Storms: Storm Electric Fields and Electron Dissociative Attachment. <i>Astrobiology</i> , 2006, 6, 451-462.	3.0	94
45	On Detecting Biospheres from Chemical Thermodynamic Disequilibrium in Planetary Atmospheres. <i>Astrobiology</i> , 2016, 16, 39-67.	3.0	94
46	Modeling aqueous ferrous iron chemistry at low temperatures with application to Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 4251-4266.	3.9	90
47	Constraining climate sensitivity and continental versus seafloor weathering using an inverse geological carbon cycle model. <i>Nature Communications</i> , 2017, 8, 15423.	12.8	88
48	Light-toned layered deposits in Juventae Chasma, Mars. <i>Icarus</i> , 2006, 181, 26-51.	2.5	82
49	Habitability of the Phoenix landing site. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	82
50	AN ANALYTIC RADIATIVE-CONVECTIVE MODEL FOR PLANETARY ATMOSPHERES. <i>Astrophysical Journal</i> , 2012, 757, 104.	4.5	82
51	Western boundary currents in the Martian atmosphere: Numerical simulations and observational evidence. <i>Journal of Geophysical Research</i> , 1995, 100, 5485.	3.3	81
52	Modeling ferrous-ferric iron chemistry with application to martian surface geochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 242-266.	3.9	80
53	Selenium isotope evidence for progressive oxidation of the Neoproterozoic biosphere. <i>Nature Communications</i> , 2015, 6, 10157.	12.8	72
54	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earth-like worlds. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 1927-1961.	3.6	72

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55	Effects of pressure on aqueous chemical equilibria at subzero temperatures with applications to Europa. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 259-274.	3.9	67
56	The evolution of the global selenium cycle: Secular trends in Se isotopes and abundances. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 162, 109-125.	3.9	59
57	Deep Space 2: The Mars Microprobe Mission. <i>Journal of Geophysical Research</i> , 1999, 104, 27013-27030.	3.3	58
58	Temperature, pressure, and wind instrumentation in the Phoenix meteorological package. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	58
59	Common 0.1â€%bar tropopause in thick atmospheres set by pressure-dependent infrared transparency. <i>Nature Geoscience</i> , 2014, 7, 12-15.	12.9	58
60	Modeling ammoniaâ€“ammonium aqueous chemistries in the Solar Systemâ€™s icy bodies. <i>Icarus</i> , 2012, 220, 932-946.	2.5	56
61	Exoplanet Biosignatures: At the Dawn of a New Era of Planetary Observations. <i>Astrobiology</i> , 2018, 18, 619-629.	3.0	54
62	The Planetary Air Leak. <i>Scientific American</i> , 2009, 300, 36-43.	1.0	51
63	Soluble salts at the Phoenix Lander site, Mars: A reanalysis of the Wet Chemistry Laboratory data. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 136, 142-168.	3.9	51
64	Consequences of Giant Impacts on Early Uranus for Rotation, Internal Structure, Debris, and Atmospheric Erosion. <i>Astrophysical Journal</i> , 2018, 861, 52.	4.5	51
65	Anaerobic methanotrophy and the rise of atmospheric oxygen. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2007, 365, 1867-1888.	3.4	50
66	The rise of oxygen and the hydrogen hourglass. <i>Chemical Geology</i> , 2013, 362, 26-34.	3.3	50
67	Alkaline lake settings for concentrated prebiotic cyanide and the origin of life. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 260, 124-132.	3.9	49
68	A warm or a cold early Earth? New insights from a 3-D climate-carbon model. <i>Earth and Planetary Science Letters</i> , 2017, 474, 97-109.	4.4	45
69	Atmospheric hydrogen peroxide and Eoarchean iron formations. <i>Geobiology</i> , 2015, 13, 1-14.	2.4	42
70	Topographic, spectral and thermal inertia analysis of interior layered deposits in Iani Chaos, Mars. <i>Icarus</i> , 2012, 221, 20-42.	2.5	40
71	Water activities of NaClO <sub>4</sub> , Ca(ClO <sub>4</sub> ) <sub>2</sub> , and Mg(ClO <sub>4</sub> ) <sub>2</sub> brines from experimental heat capacities: Water activity >0.6 below 200 K. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 181, 164-174.	3.9	37
72	Probable Cold and Alkaline Surface Environment of the Hadean Earth Caused by Impact Ejecta Weathering. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008734.	2.5	37

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73	Mantle data imply a decline of oxidizable volcanic gases could have triggered the Great Oxidation. <i>Nature Communications</i> , 2020, 11, 2774.	12.8	36
74	On Earth, as it is on Mars?. <i>Nature</i> , 2004, 429, 707-708.	27.8	34
75	Selenium isotope analysis of organic-rich shales: advances in sample preparation and isobaric interference correction. <i>Journal of Analytical Atomic Spectrometry</i> , 2013, 28, 1734.	3.0	34
76	High-sensitivity silicon capacitive sensors for measuring medium-vacuum gas pressures. <i>Sensors and Actuators A: Physical</i> , 1998, 64, 157-164.	4.1	33
77	A revised Pitzer model for low-temperature soluble salt assemblages at the Phoenix site, Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 166, 327-343.	3.9	33
78	Br/Cl partitioning in chloride minerals in the Burns formation on Mars. <i>Icarus</i> , 2009, 200, 436-445.	2.5	32
79	Rocky Worlds Limited to $\approx 1/8$ Earth Radii by Atmospheric Escape during a Star's Extreme UV Saturation. <i>Astrophysical Journal</i> , 2017, 845, 130.	4.5	32
80	The Productivity of Oxygenic Photosynthesis around Cool, M Dwarf Stars. <i>Astrophysical Journal</i> , 2018, 859, 171.	4.5	32
81	A coupled carbon-silicon cycle model over Earth history: Reverse weathering as a possible explanation of a warm mid-Proterozoic climate. <i>Earth and Planetary Science Letters</i> , 2020, 537, 116181.	4.4	32
82	IS THE PALE BLUE DOT UNIQUE? OPTIMIZED PHOTOMETRIC BANDS FOR IDENTIFYING EARTH-LIKE EXOPLANETS. <i>Astrophysical Journal</i> , 2016, 817, 31.	4.5	31
83	Key Science Questions from the Second Conference on Early Mars: Geologic, Hydrologic, and Climatic Evolution and the Implications for Life. <i>Astrobiology</i> , 2005, 5, 663-689.	3.0	30
84	Modeling salt precipitation from brines on Mars: Evaporation versus freezing origin for soil salts. <i>Icarus</i> , 2015, 250, 451-461.	2.5	28
85	Packaging a piezoresistive pressure sensor to measure low absolute pressures over a wide sub-zero temperature range. <i>Sensors and Actuators A: Physical</i> , 2000, 83, 142-149.	4.1	27
86	A Low-Temperature Thermodynamic Model for the Na-K-Ca-Mg-Cl System Incorporating New Experimental Heat Capacities in KCl, MgCl <sub>2</sub> , and CaCl <sub>2</sub> Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 995-1010.	1.9	27
87	Chlorate brines on Mars: Implications for the occurrence of liquid water and deliquescence. <i>Earth and Planetary Science Letters</i> , 2018, 497, 161-168.	4.4	26
88	Abundant Atmospheric Methane from Volcanism on Terrestrial Planets Is Unlikely and Strengthens the Case for Methane as a Biosignature. <i>Planetary Science Journal</i> , 2020, 1, 58.	3.6	26
89	A Micro-Meteorological mission for global network science on Mars: rationale and measurement requirements. <i>Planetary and Space Science</i> , 1996, 44, 1361-1383.	1.7	25
90	Hematitic concretions at Meridiani Planum, Mars: Their growth timescale and possible relationship with iron sulfates. <i>Earth and Planetary Science Letters</i> , 2008, 269, 366-376.	4.4	25

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91	The geochemistry of Don Juan Pond: Evidence for a deep groundwater flow system in Wright Valley, Antarctica. <i>Earth and Planetary Science Letters</i> , 2017, 474, 190-197.	4.4	25
92	Modeling gas hydrate equilibria in electrolyte solutions. <i>Calphad: Computer Coupling of Phase Diagrams and Thermochemistry</i> , 2006, 30, 248-259.	1.6	24
93	A perchlorate brine lubricated deformable bed facilitating flow of the north polar cap of Mars: Possible mechanism for water table recharging. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	24
94	Anoxic atmospheres on Mars driven by volcanism: Implications for past environments and life. <i>Icarus</i> , 2017, 290, 46-62.	2.5	24
95	Planetary atmospheres and life. , 0, , 91-116.		24
96	Western boundary currents in the atmosphere of Mars. <i>Nature</i> , 1994, 367, 548-551.	27.8	23
97	Modeling hot spring chemistries with applications to martian silica formation. <i>Icarus</i> , 2011, 212, 629-642.	2.5	23
98	Analysis of mass dependent and mass independent selenium isotope variability in black shales. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1648-1659.	3.0	23
99	Carbon cycle inverse modeling suggests large changes in fractional organic burial are consistent with the carbon isotope record and may have contributed to the rise of oxygen. <i>Geobiology</i> , 2021, 19, 342-363.	2.4	23
100	Where are Mars's Hypothesized Ocean Shorelines? Large Lateral and Topographic Offsets Between Different Versions of Paleoshoreline Maps. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006486.	3.6	23
101	Observations of atmospheric tides on Mars at the season and latitude of the Phoenix atmospheric entry. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	22
102	Carbonate-silicate cycle predictions of Earth-like planetary climates and testing the habitable zone concept. <i>Nature Communications</i> , 2020, 11, 6153.	12.8	22
103	Atmospheric CO <sub>2</sub> levels from 2.7 billion years ago inferred from micrometeorite oxidation. <i>Science Advances</i> , 2020, 6, eaay4644.	10.3	22
104	Sulfite-sulfide-sulfate-carbonate equilibria with applications to Mars. <i>Icarus</i> , 2013, 225, 342-351.	2.5	21
105	Statistical analysis of Curiosity data shows no evidence for a strong seasonal cycle of martian methane. <i>Icarus</i> , 2020, 336, 113407.	2.5	21
106	A Maximum Subsurface Biomass on Mars from Untapped Free Energy: CO and H <sub>2</sub> as Potential Antibiosignatures. <i>Astrobiology</i> , 2019, 19, 655-668.	3.0	19
107	Potential aeolian deposition of intra-crater layering: A case study of Henry crater, Mars. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 608-616.	3.3	19
108	Quantitative High-Resolution Reexamination of a Hypothesized Ocean Shoreline in Cydonia Mensae on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 316-336.	3.6	18

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109	High Organic Burial Efficiency Is Required to Explain Mass Balance in Earth's Early Carbon Cycle. <i>Global Biogeochemical Cycles</i> , 2021, 35, .	4.9	17
110	Dune Casts Preserved by Partial Burial: The First Identification of <i>Ghost Dune</i> Pits on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 1431-1448.	3.6	16
111	When is Chemical Disequilibrium in Earth-like Planetary Atmospheres a Biosignature versus an Anti-biosignature? <i>Disequilibria from Dead to Living Worlds. Astrophysical Journal</i> , 2020, 892, 127.	4.5	16
112	Atmospheric Erosion by Giant Impacts onto Terrestrial Planets: A Scaling Law for any Speed, Angle, Mass, and Density. <i>Astrophysical Journal Letters</i> , 2020, 901, L31.	8.3	16
113	Ancient fingerprints in the clay. <i>Nature</i> , 2007, 448, 31-32.	27.8	14
114	Atmospheric oxygenation and volcanism. <i>Nature</i> , 2012, 487, E1-E1.	27.8	14
115	A Low-Temperature Aqueous Thermodynamic Model for the Na <sup>+</sup> -K <sup>+</sup> -Ca <sup>2+</sup> -Mg <sup>2+</sup> -Cl <sup>-</sup> -SO <sub>4</sub> <sup>2-</sup> System Incorporating New Experimental Heat Capacities in Na <sub>2</sub> SO <sub>4</sub> , K <sub>2</sub> SO <sub>4</sub> , and MgSO <sub>4</sub> Solutions. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 3151-3168.	1.9	13
116	Habitability Models for Astrobiology. <i>Astrobiology</i> , 2021, 21, 1017-1027.	3.0	13
117	Prebiotic Protocell Membranes Retain Encapsulated Contents during Flocculation, and Phospholipids Preserve Encapsulation during Dehydration. <i>Langmuir</i> , 2022, 38, 1304-1310.	3.5	12
118	Modeling calcium sulfate chemistries with applications to Mars. <i>Icarus</i> , 2016, 278, 31-37.	2.5	11
119	The Longevity of Water Ice on Ganymedes and Europas around Migrated Giant Planets. <i>Astrophysical Journal</i> , 2017, 839, 32.	4.5	11
120	Eolianite Grain Size Distributions as a Proxy for Large Changes in Planetary Atmospheric Density. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2506-2526.	3.6	11
121	Modeling nitrogen-gas, -liquid, -solid chemistries at low temperatures (173â€“298K) with applications to Titan. <i>Icarus</i> , 2014, 236, 1-8.	2.5	10
122	The Early Mars Climate System. , 2017, , 526-568.		9
123	The Peak Absorbance Wavelength of Photosynthetic Pigments Around Other Stars From Spectral Optimization. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	9
124	Constraints on hydrogen levels in the Archean atmosphere based on detrital magnetite. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 262, 207-219.	3.9	8
125	Atmospheric Evolution, Mars. <i>Encyclopedia of Earth Sciences Series</i> , 2009, , 66-75.	0.1	8
126	Mars Atmosphere: History and Surface Interactions. , 2007, , 301-314.		7



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127	Quantitative discrimination between geological materials with variable density contrast by high resolution X-ray computed tomography: An example using amygdule size-distribution in ancient lava flows. <i>Computers and Geosciences</i> , 2013, 54, 231-238.	4.2	6
128	The response of Phanerozoic surface temperature to variations in atmospheric oxygen concentration. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 10,089-10,096.	3.3	6
129	The Exo-Life Finder (ELF) telescope: New strategies for direct detection of exoplanet biosignatures and technosignatures. , 2018, , .		5
130	Twin studies on Mars. <i>Nature</i> , 2005, 436, 42-43.	27.8	4
131	Oxygen and life in the Precambrian. <i>Geobiology</i> , 2006, 4, 225-226.	2.4	4
132	Mars Atmosphere. , 2014, , 343-357.		4
133	Waiting for O <sub>2</sub> . , 2014, , .		4
134	Fast and precise boron isotopic analysis of carbonates and seawater using Nu Plasma II multi-collector inductively coupled plasma mass spectrometry and a simple sample introduction system. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 1169-1178.	1.5	4
135	Oxygenation of the Earth's Atmosphere. , 2015, , 1816-1826.		4
136	Geochemistry of Carbonates on Mars: Implications for Climate History and Nature of Aqueous Environments. <i>Space Sciences Series of ISSI</i> , 2012, , 301-328.	0.0	2
137	15 Coupled Evolution of Earth's Atmosphere and Biosphere. , 0, , 191-206.		1
138	Moon-Mars: The elephant in the attic. <i>Eos</i> , 2005, 86, 143.	0.1	1
139	Oxygenation of the Earth's Atmosphere. , 2011, , 1200-1208.		1
140	BOULDER-SIZE DISTRIBUTIONS AS INDICATORS FOR DEPOSITION PROCESSES ON EARTH AND MARS. , 2017, , .		1
141	GENESIS: THE SCIENTIFIC QUEST FOR LIFE'S ORIGINS: by Robert M. Hazen. Joseph Henry Press, Washington, D.C., 2005. 339 pages, \$27.95. <i>American Mineralogist</i> , 2007, 92, 1543-1543.	1.9	0
142	Conway B. Leovy (1933-2011). <i>Eos</i> , 2011, 92, 363-364.	0.1	0
143	The Search for Another Earth-Like Planet and Life Elsewhere. , 0, , 30-56.		0
144	Vesicle paleobarometry in the Pongola Supergroup: A cautionary note and guidelines for future studies. <i>South African Journal of Geology</i> , 2020, 123, 95-104.	1.2	0

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145	Flocculation of Fatty Acid Membranes does not Disrupt Encapsulation: Implications for the Origin of Cells in Evaporative Lake Environments. Biophysical Journal, 2021, 120, 38a.	0.5	0
146	Geochemical Consequences of Widespread Clay Mineral Formation in Mars's Ancient Crust. Space Sciences Series of ISSI, 2012, , 329-364.	0.0	0