

Don Canfield

List of Publications by Year in Descending Order

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Version: 2024-04-25

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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.

266
papers

35,621
citations

95
h-index

187
g-index

298
ext. papers

40,301
ext. citations

10.5
avg, IF

7.66
L-index

#	Paper	IF	Citations
266	Oxygen and nitrogen production by an ammonia-oxidizing archaeon.. <i>Science</i> , 2022 , 375, 97-100	33.3	18
265	Uranium isotope cycling on the highly productive Peruvian margin. <i>Chemical Geology</i> , 2022 , 590, 120705	4.2	1
264	Sulfidic Oceans 2022 , 1-2		
263	Metagenomic data for <i>Halichondria panicea</i> from Illumina and nanopore sequencing and preliminary genome assemblies for the sponge and two microbial symbionts.. <i>BMC Research Notes</i> , 2022 , 15, 135	2.3	1
262	Effects of inorganic sulfur species on hydrocarbon conversion and ^{34}S isotope fractionation during thermal maturation of Type II kerogen. <i>Organic Geochemistry</i> , 2022 , 104420	3.1	
261	Spatial and temporal anoxia in single-ostium <i>Halichondria panicea</i> demosponge explants studied with planar optodes. <i>Marine Biology</i> , 2021 , 168, 1	2.5	1
260	Application of Cd as a paleo-environment indicator. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021 , 110749	2.9	0
259	A 200-million-year delay in permanent atmospheric oxygenation. <i>Nature</i> , 2021 , 592, 232-236	50.4	36
258	Molecular and carbon isotopic evidence of pigments indicating a dynamic oceanic chemocline 1.4 billion years ago in northern China. <i>Organic Geochemistry</i> , 2021 , 154, 104207	3.1	1
257	Curation and Analysis of Global Sedimentary Geochemical Data to Inform Earth History. <i>GSA Today</i> , 2021 , 31, 4-10	2.8	5
256	Ideas and perspectives: Biogeochemistry & some key foci for the future. <i>Biogeosciences</i> , 2021 , 18, 3005-3018	4.8	1
255	Sulfur cycling in oceanic oxygen minimum zones. <i>Limnology and Oceanography</i> , 2021 , 66, 2360-2392	4.8	6
254	Eukaryotic red and green algae populated the tropical ocean 1400 million years ago. <i>Precambrian Research</i> , 2021 , 357, 106166	3.9	9
253	Petrographic carbon in ancient sediments constrains Proterozoic Era atmospheric oxygen levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	7
252	The Sedimentary Geochemistry and Paleoenvironments Project. <i>Geobiology</i> , 2021 , 19, 545-556	4.3	7
251	The environmental context of carbonaceous compressions and implications for organism preservation 1.40 Ga and 0.63 Ga. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021 , 573, 110449	2.9	4
250	Using cyclostratigraphic evidence to define the unconformity caused by the Mesoproterozoic Qinyu Uplift in the North China Craton. <i>Journal of Asian Earth Sciences</i> , 2021 , 206, 104608	2.8	5

249	Sulfidic anoxia in the oceans during the Late Ordovician mass extinctions Insights from molybdenum and uranium isotopic global redox proxies. <i>Earth-Science Reviews</i> , 2021 , 220, 103748	10.2	6
248	Redox dynamics of later Cambrian oceans. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021 , 581, 110623	2.9	6
247	The modern phosphorus cycle informs interpretations of Mesoproterozoic Era phosphorus dynamics. <i>Earth-Science Reviews</i> , 2020 , 208, 103267	10.2	16
246	Redox-sensitive trace metals as paleoredox proxies: A review and analysis of data from modern sediments. <i>Earth-Science Reviews</i> , 2020 , 204, 103175	10.2	63
245	No nitrogen fixation in the Bay of Bengal?. <i>Biogeosciences</i> , 2020 , 17, 851-864	4.6	19
244	Very few sites can reshape the inferred phylogenetic tree. <i>PeerJ</i> , 2020 , 8, e8865	3.1	6
243	The global explosion of eukaryotic algae: The potential role of phosphorus?. <i>PLoS ONE</i> , 2020 , 15, e0234372	3.7	2
242	Tracking the evolution of seawater Mo isotopes through the Ediacaran-Cambrian transition. <i>Precambrian Research</i> , 2020 , 350, 105929	3.9	7
241	Carbon isotopes in clastic rocks and the Neoproterozoic carbon cycle. <i>Numerische Mathematik</i> , 2020 , 320, 97-124	5.3	29
240	Experimental determination of pyrite and molybdenite oxidation kinetics at nanomolar oxygen concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 249, 160-172	5.5	19
239	Chromium isotope cycling in the water column and sediments of the Peruvian continental margin. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 257, 224-242	5.5	20
238	Proterozoic seawater sulfate scarcity and the evolution of ocean-atmosphere chemistry. <i>Nature Geoscience</i> , 2019 , 12, 375-380	18.3	44
237	Paleoenvironmental proxies and what the Xiamaling Formation tells us about the mid-Proterozoic ocean. <i>Geobiology</i> , 2019 , 17, 225-246	4.3	23
236	Phosphorus cycling in Lake Cadagno, Switzerland: A low sulfate euxinic ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 251, 116-135	5.5	28
235	Organism motility in an oxygenated shallow-marine environment 2.1 billion years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019 , 116, 3431-3436	11.5	25
234	Rates and pathways of CH ₄ oxidation in ferruginous Lake Matano, Indonesia. <i>Geobiology</i> , 2019 , 17, 294-307	7.3	9
233	The Sirius Passet Lagerstätte of North Greenland-A geochemical window on early Cambrian low-oxygen environments and ecosystems. <i>Geobiology</i> , 2019 , 17, 12-26	4.3	10
232	Bioturbation and directionality in Earth's carbon isotope record across the Neoproterozoic-Cambrian transition. <i>Geobiology</i> , 2018 , 16, 252-278	4.3	17

231	A Mesoproterozoic iron formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018 , 115, E3895-E3904	11.5	37
230	Evidence of oxygenic phototrophy in ancient phosphatic stromatolites from the Paleoproterozoic Vindhyan and Aravalli Supergroups, India. <i>Geobiology</i> , 2018 , 16, 139-159	4.3	19
229	The iron paleoredox proxies: A guide to the pitfalls, problems and proper practice. <i>Numerische Mathematik</i> , 2018 , 318, 491-526	5.3	109
228	Highly fractionated chromium isotopes in Mesoproterozoic-aged shales and atmospheric oxygen. <i>Nature Communications</i> , 2018 , 9, 2871	17.4	91
227	Synchrotron X-ray spectroscopy for investigating vanadium speciation in marine sediment: limitations and opportunities. <i>Journal of Analytical Atomic Spectrometry</i> , 2018 , 33, 1689-1699	3.7	9
226	Animal origins and the Tonian Earth system. <i>Emerging Topics in Life Sciences</i> , 2018 , 2, 289-298	3.5	5
225	Decrypting the sulfur cycle in oceanic oxygen minimum zones. <i>ISME Journal</i> , 2018 , 12, 2322-2329	11.9	9
224	Ocean redox conditions between the snowballs [Geochemical constraints from Arena Formation, East Greenland. <i>Precambrian Research</i> , 2018 , 319, 173-186	3.9	14
223	Contraction Dynamics and Respiration of Small Single-Osculum Explants of the Demosponge <i>Halichondria panicea</i> . <i>Frontiers in Marine Science</i> , 2018 , 5,	4.5	4
222	The aerobic diagenesis of Mesoproterozoic organic matter. <i>Scientific Reports</i> , 2018 , 8, 13324	4.9	8
221	The last common ancestor of animals lacked the HIF pathway and respired in low-oxygen environments. <i>ELife</i> , 2018 , 7,	8.9	50
220	Iron-dependent nitrogen cycling in a ferruginous lake and the nutrient status of Proterozoic oceans. <i>Nature Geoscience</i> , 2017 , 10, 217-221	18.3	35
219	N ₂ production rates limited by nitrite availability in the Bay of Bengal oxygen minimum zone. <i>Nature Geoscience</i> , 2017 , 10, 24-29	18.3	107
218	Evidence of molybdenum association with particulate organic matter under sulfidic conditions. <i>Geobiology</i> , 2017 , 15, 311-323	4.3	51
217	Novel anammox bacteria and nitrogen loss from Lake Superior. <i>Scientific Reports</i> , 2017 , 7, 13757	4.9	20
216	Oxygen, climate and the chemical evolution of a 1400 million year old tropical marine setting. <i>Numerische Mathematik</i> , 2017 , 317, 861-900	5.3	39
215	Carbon isotope fractionation by anoxygenic phototrophic bacteria in euxinic Lake Cadagno. <i>Geobiology</i> , 2017 , 15, 798-816	4.3	9
214	Early Cambrian oxygen minimum zone-like conditions at Chengjiang. <i>Earth and Planetary Science Letters</i> , 2017 , 475, 160-168	5.3	46

213	A trophic framework for animal origins. <i>Geobiology</i> , 2017 , 15, 197-210	4.3	10
212	The oxic degradation of sedimentary organic matter 1400 Ma constrains atmospheric oxygen levels. <i>Biogeosciences</i> , 2017 , 14, 2133-2149	4.6	26
211	Remarkable Preservation of Microfossils and Biofilms in Mesoproterozoic Silicified Bitumen Concretions from Northern China. <i>Geofluids</i> , 2017 , 2017, 1-12	1.5	2
210	Osculum dynamics and filtration activity in small single-ostium explants of the demosponge <i>Halichondria panicea</i> . <i>Marine Ecology - Progress Series</i> , 2017 , 572, 117-128	2.6	20
209	Metabolomics Reveals Cryptic Interactive Effects of Species Interactions and Environmental Stress on Nitrogen and Sulfur Metabolism in Seagrass. <i>Environmental Science & Technology</i> , 2016 , 50, 11602-11609	10.3	33
208	Reproductive cyst and operculum formation in the Cambrian-Ordovician galeate-plexus microfossils. <i>Gff</i> , 2016 , 138, 278-294	0.9	8
207	Sufficient oxygen for animal respiration 1,400 million years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1731-6	11.5	180
206	In situ quantification of ultra-low O ₂ concentrations in oxygen minimum zones: Application of novel optodes. <i>Limnology and Oceanography: Methods</i> , 2016 , 14, 784-800	2.6	23
205	Reply to Planavsky et al.: Strong evidence for high atmospheric oxygen levels 1,400 million years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, E2552-3	11.5	14
204	Ammonium and nitrite oxidation at nanomolar oxygen concentrations in oxygen minimum zone waters. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 10601-6	11.5	134
203	Nitrate-dependent iron oxidation limits iron transport in anoxic ocean regions. <i>Earth and Planetary Science Letters</i> , 2016 , 454, 272-281	5.3	63
202	Iron oxides, divalent cations, silica, and the early earth phosphorus crisis. <i>Geology</i> , 2015 , 43, 135-138	5	116
201	Orbital forcing of climate 1.4 billion years ago. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1406-13	11.5	85
200	Mass-dependent sulfur isotope fractionation during reoxidative sulfur cycling: A case study from Mangrove Lake, Bermuda. <i>Geochimica Et Cosmochimica Acta</i> , 2015 , 149, 152-164	5.5	40
199	Pelagic photoferrotrophy and iron cycling in a modern ferruginous basin. <i>Scientific Reports</i> , 2015 , 5, 13803	4.9	57
198	Reconstruction of secular variation in seawater sulfate concentrations. <i>Biogeosciences</i> , 2015 , 12, 2131-2151	4.5	133
197	LUMOS--A Sensitive and Reliable Optode System for Measuring Dissolved Oxygen in the Nanomolar Range. <i>PLoS ONE</i> , 2015 , 10, e0128125	3.7	40
196	Selenium isotope evidence for progressive oxidation of the Neoproterozoic biosphere. <i>Nature Communications</i> , 2015 , 6, 10157	17.4	56

195	Oxygen requirements of the earliest animals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 4168-72	11.5	203
194	A model-based insight into the coupling of nitrogen and sulfur cycles in a coastal upwelling system. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2014 , 119, 264-285	3.7	11
193	Sulfate was a trace constituent of Archean seawater. <i>Science</i> , 2014 , 346, 735-9	33.3	184
192	Uranium isotopes distinguish two geochemically distinct stages during the later Cambrian SPICE event. <i>Earth and Planetary Science Letters</i> , 2014 , 401, 313-326	5.3	100
191	Oxygen and animal evolution: did a rise of atmospheric oxygen "trigger" the origin of animals?. <i>BioEssays</i> , 2014 , 36, 1145-55	4.1	81
190	Stabilization of the coupled oxygen and phosphorus cycles by the evolution of bioturbation. <i>Nature Geoscience</i> , 2014 , 7, 671-676	18.3	81
189	The 2.1 Ga old Francevillian biota: biogenicity, taphonomy and biodiversity. <i>PLoS ONE</i> , 2014 , 9, e99438	3.7	33
188	Proterozoic Atmospheric Oxygen 2014 , 197-216		14
187	Oxygen at nanomolar levels reversibly suppresses process rates and gene expression in anammox and denitrification in the oxygen minimum zone off northern Chile. <i>MBio</i> , 2014 , 5, e01966	7.8	153
186	Deep-water anoxygenic photosynthesis in a ferruginous chemocline. <i>Geobiology</i> , 2014 , 12, 322-39	4.3	40
185	Oxygen distribution and aerobic respiration in the north and south eastern tropical Pacific oxygen minimum zones. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2014 , 94, 173-183	2.5	89
184	Vertical partitioning of nitrogen-loss processes across the oxic-anoxic interface of an oceanic oxygen minimum zone. <i>Environmental Microbiology</i> , 2014 , 16, 3041-54	5.2	59
183	Biogenic Fe(III) minerals: From formation to diagenesis and preservation in the rock record. <i>Earth-Science Reviews</i> , 2014 , 135, 103-121	10.2	91
182	Fluctuations in late Neoproterozoic atmospheric oxidation $\delta^{54}\text{Cr}$ isotope chemostratigraphy and iron speciation of the late Ediacaran lower Arroyo del Soldado Group (Uruguay). <i>Gondwana Research</i> , 2013 , 23, 797-811	5.1	71
181	Oxygen dynamics in the aftermath of the Great Oxidation of Earth's atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 16736-41	11.5	92
180	Atmospheric oxygenation three billion years ago. <i>Nature</i> , 2013 , 501, 535-8	50.4	443
179	Tracing euxinia by molybdenum concentrations in sediments using handheld X-ray fluorescence spectroscopy (HHXRF). <i>Chemical Geology</i> , 2013 , 360-361, 241-251	4.2	64
178	High rates of microbial carbon turnover in sediments in the deepest oceanic trench on Earth. <i>Nature Geoscience</i> , 2013 , 6, 284-288	18.3	176

177	Nitrogen cycle feedbacks as a control on euxinia in the mid-Proterozoic ocean. <i>Nature Communications</i> , 2013 , 4, 1533	17.4	35
176	Geochemistry. Carbon cycle makeover. <i>Science</i> , 2013 , 339, 533-4	33.3	20
175	Sulfur isotopes in coal constrain the evolution of the Phanerozoic sulfur cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 8443-6	11.5	27
174	Cobalt Cycling and Fate in Lake Vanda. <i>Antarctic Research Series</i> , 2013 , 205-215		3
173	Microbial oceanography of anoxic oxygen minimum zones. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 15996-6003	11.5	285
172	Mechanism for Burgess Shale-type preservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 5180-4	11.5	133
171	A sulfidic driver for the end-Ordovician mass extinction. <i>Earth and Planetary Science Letters</i> , 2012 , 331-332, 128-139	5.3	136
170	Mineralogical Co-Evolution of the Geosphere and Biosphere 2012 , 333-350		4
169	Carbon mineralization and oxygen dynamics in sediments with deep oxygen penetration, Lake Superior. <i>Limnology and Oceanography</i> , 2012 , 57, 1634-1650	4.8	47
168	The Global Carbon Cycle: Biological Processes 2012 , 5-19		1
167	What is Geobiology? 2012 , 1-4		2
166	The Global Carbon Cycle: Geological Processes 2012 , 20-35		14
165	The Global Nitrogen Cycle 2012 , 36-48		13
164	The Global Sulfur Cycle 2012 , 49-64		16
163	The Global Iron Cycle 2012 , 65-92		19
162	The Global Oxygen Cycle 2012 , 93-104		10
161	Bacterial Biomineralization 2012 , 105-130		33
160	Geobiology of the Proterozoic Eon 2012 , 371-402		11

159	The Fossil Record of Microbial Life 2012 , 297-314		10
158	Geobiology of the Phanerozoic 2012 , 403-424		
157	Mineral/Organic/Microbe Interfacial Chemistry 2012 , 131-149		2
156	A Geobiological View of Weathering and Erosion 2012 , 205-227		15
155	Geochemical Origins of Life 2012 , 315-332		4
154	Stable Isotope Geobiology 2012 , 250-268		4
153	Biomarkers: Informative Molecules for Studies in Geobiology 2012 , 269-296		19
152	Geobiology of the Archean Eon 2012 , 351-370		5
151	Plants and Animals as Geobiological Agents 2012 , 188-204		3
150	Geobiology of the Anthropocene 2012 , 425-436		5
149	Eukaryotic Skeletal Formation 2012 , 150-187		3
148	Molecular Biology's Contributions to Geobiology 2012 , 228-249		1
147	Experimental incubations elicit profound changes in community transcription in OMZ bacterioplankton. <i>PLoS ONE</i> , 2012 , 7, e37118	3-7	54
146	Anammox, denitrification and fixed-nitrogen removal in sediments from the Lower St. Lawrence Estuary. <i>Biogeosciences</i> , 2012 , 9, 4309-4321	4-6	57
145	Green rust formation controls nutrient availability in a ferruginous water column. <i>Geology</i> , 2012 , 40, 599-602	5	121
144	Burgess shale-type biotas were not entirely burrowed away. <i>Geology</i> , 2012 , 40, 283-286	5	34
143	Reply to Butterfield: Low-sulfate and early cements inhibit decay and promote Burgess Shale-type preservation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, E1902-E1902	11-5	1
142	The Iron Biogeochemical Cycle Past and Present. <i>Geochemical Perspectives</i> , 2012 , 1, 1-220	0	396

141	Molybdenum evidence for expansive sulfidic water masses in ~ 750 Ma oceans. <i>Earth and Planetary Science Letters</i> , 2011 , 311, 264-274	5.3	89
140	Biogeochemistry of manganese in ferruginous Lake Matano, Indonesia. <i>Biogeosciences</i> , 2011 , 8, 2977-2991	4.6	27
139	Does the Paleoproterozoic Animikie Basin record the sulfidic ocean transition?: COMMENT. <i>Geology</i> , 2011 , 39, e241-e241	5	5
138	Ferruginous Conditions: A Dominant Feature of the Ocean through Earth's History. <i>Elements</i> , 2011 , 7, 107-112	3.8	557
137	Construction of STOX oxygen sensors and their application for determination of O ₂ concentrations in oxygen minimum zones. <i>Methods in Enzymology</i> , 2011 , 486, 325-41	1.7	26
136	Towards a quantitative understanding of the late Neoproterozoic carbon cycle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 5542-7	11.5	90
135	Reply to Butterfield: The Devonian radiation of large predatory fish coincided with elevated atmospheric oxygen levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, E29-E29	11.5	78
134	Large colonial organisms with coordinated growth in oxygenated environments 2.1 Gyr ago. <i>Nature</i> , 2010 , 466, 100-4	50.4	175
133	Spatial variability in oceanic redox structure 1.8 billion years ago. <i>Nature Geoscience</i> , 2010 , 3, 486-490	18.3	267
132	Devonian rise in atmospheric oxygen correlated to the radiations of terrestrial plants and large predatory fish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 17911-5	11.5	278
131	Aerobic growth at nanomolar oxygen concentrations. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 18755-60	11.5	134
130	Connections between Sulfur Cycle Evolution, Sulfur Isotopes, Sediments, and Base Metal Sulfide Deposits. <i>Economic Geology</i> , 2010 , 105, 509-533	4.3	131
129	High isotope fractionations during sulfate reduction in a low-sulfate euxinic ocean analog. <i>Geology</i> , 2010 , 38, 415-418	5	241
128	Increased accumulation of sulfur in lake sediments of the high arctic. <i>Environmental Science & Technology</i> , 2010 , 44, 8415-21	10.3	16
127	A cryptic sulfur cycle in oxygen-minimum-zone waters off the Chilean coast. <i>Science</i> , 2010 , 330, 1375-8	33.3	424
126	Climate change and the integrity of science. <i>Science</i> , 2010 , 328, 689-90	33.3	116
125	The behavior of molybdenum and its isotopes across the chemocline and in the sediments of sulfidic Lake Cadagno, Switzerland. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 144-163	5.5	108
124	Evaluating the S-isotope fractionation associated with Phanerozoic pyrite burial. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 2053-2071	5.5	64

123	An emerging picture of Neoproterozoic ocean chemistry: Insights from the Chuar Group, Grand Canyon, USA. <i>Earth and Planetary Science Letters</i> , 2010 , 290, 64-73	5.3	164
122	The evolution and future of Earth's nitrogen cycle. <i>Science</i> , 2010 , 330, 192-6	33.3	1368
121	Animal evolution, bioturbation, and the sulfate concentration of the oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009 , 106, 8123-7	11.5	322
120	Microbial communities and processes within a hypersaline gypsum crust in a saltern evaporation pond (Eilat, Israel). <i>Hydrobiologia</i> , 2009 , 626, 15-26	2.4	46
119	Fluctuations in Precambrian atmospheric oxygenation recorded by chromium isotopes. <i>Nature</i> , 2009 , 461, 250-3	50.4	454
118	Lake-specific responses in sedimentary sulphur, after additions of copper sulphate to lakes in Michigan, USA. <i>Lakes and Reservoirs: Research and Management</i> , 2009 , 14, 193-201	1.2	3
117	Temperature effect on the sulfur isotope fractionation during sulfate reduction by two strains of the hyperthermophilic <i>Archaeoglobus fulgidus</i> . <i>Environmental Microbiology</i> , 2009 , 11, 2998-3006	5.2	14
116	Dominance of a clonal green sulfur bacterial population in a stratified lake. <i>FEMS Microbiology Ecology</i> , 2009 , 70, 30-41	4.3	42
115	Fractionation of multiple sulfur isotopes during phototrophic oxidation of sulfide and elemental sulfur by a green sulfur bacterium. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 291-306	5.5	98
114	Sulphur isotopes and the search for life: strategies for identifying sulphur metabolisms in the rock record and beyond. <i>Geobiology</i> , 2008 , 6, 425-35	4.3	60
113	Production of ¹⁵ N-depleted biomass during cyanobacterial N ₂ -fixation at high Fe concentrations. <i>Journal of Geophysical Research</i> , 2008 , 113,		56
112	Sulfur and oxygen isotope study of sulfate reduction in experiments with natural populations from Fløstrand, Denmark. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 2805-2821	5.5	71
111	Sulfur isotope biogeochemistry of the Proterozoic McArthur Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2008 , 72, 4278-4290	5.5	49
110	Comment on "Physical model for the decay and preservation of marine organic carbon". <i>Science</i> , 2008 , 319, 1616; author reply 1616	33.3	27
109	Photoferrotrophs thrive in an Archean Ocean analogue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008 , 105, 15938-43	11.5	171
108	Ferruginous conditions dominated later neoproterozoic deep-water chemistry. <i>Science</i> , 2008 , 321, 949-53	33.3	511
107	Controls on Isotope Fractionation During Dissimilatory Sulfate Reduction 2008 , 273-284		3
106	Deposition and cycling of sulfur controls mercury accumulation in Isle Royale fish. <i>Environmental Science & Technology</i> , 2007 , 41, 7266-72	10.3	51

105	Anaerobic ammonium-oxidizing bacteria in marine environments: widespread occurrence but low diversity. <i>Environmental Microbiology</i> , 2007 , 9, 1476-84	5.2	257
104	Sulfur isotope insights into microbial sulfate reduction: When microbes meet models. <i>Geochimica Et Cosmochimica Acta</i> , 2007 , 71, 3929-3947	5.5	168
103	Late-Neoproterozoic deep-ocean oxygenation and the rise of animal life. <i>Science</i> , 2007 , 315, 92-5	33.3	668
102	A bioreactor for growth of sulfate-reducing bacteria: online estimation of specific growth rate and biomass for the deep-sea hydrothermal vent thermophile <i>Thermodesulfatator indicus</i> . <i>Microbial Ecology</i> , 2006 , 51, 470-8	4.4	1
101	Mass spectrometric data characteristics of commonly abused amphetamines with sequential derivatization at two active sites. <i>Forensic Science International</i> , 2006 , 161, 97-118	2.6	4
100	Early anaerobic metabolisms. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 1819-34; discussion 1835-6	5.8	255
99	Temperature and its control of isotope fractionation by a sulfate-reducing bacterium. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 548-561	5.5	105
98	Co-diagenesis of iron and phosphorus in hydrothermal sediments from the southern East Pacific Rise: Implications for the evaluation of paleoseawater phosphate concentrations. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5883-5898	5.5	50
97	Models of oxic respiration, denitrification and sulfate reduction in zones of coastal upwelling. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5753-5765	5.5	68
96	Effect of hydrogen limitation and temperature on the fractionation of sulfur isotopes by a deep-sea hydrothermal vent sulfate-reducing bacterium. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5831-5841	5.5	43
95	Evolution of the oceanic sulfur cycle at the end of the Paleoproterozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 5723-5739	5.5	93
94	Metal limitation of cyanobacterial N ₂ fixation and implications for the Precambrian nitrogen cycle. <i>Geobiology</i> , 2006 , 4, 285-297	4.3	96
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