

Noah J Planavsky

List of Publications by Year in descending order

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Version: 2024-02-01

139
papers

14,958
citations

19636

61
h-index

18633

119
g-index

142
all docs

142
docs citations

142
times ranked

9279
citing authors

#	ARTICLE	IF	CITATIONS
1	The History of Ocean Oxygenation. <i>Annual Review of Marine Science</i> , 2022, 14, 331-353.	5.1	22
2	Neoproterozoic syn-glacial carbonate precipitation and implications for a snowball Earth. <i>Geobiology</i> , 2022, 20, 175-193.	1.1	7
3	Intensified continental chemical weathering and carbon-cycle perturbations linked to volcanism during the Triassic-Jurassic transition. <i>Nature Communications</i> , 2022, 13, 299.	5.8	49
4	Strong evidence for a weakly oxygenated ocean-atmosphere system during the Proterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, .	3.3	15
5	Perturbation of the deep-Earth carbon cycle in response to the Cambrian Explosion. <i>Science Advances</i> , 2022, 8, eabj1325.	4.7	14
6	Uranium isotope evidence for extensive shallow water anoxia in the early Tonian oceans. <i>Earth and Planetary Science Letters</i> , 2022, 583, 117437.	1.8	12
7	Binding and transport of Cr(III) by clay minerals during the Great Oxidation Event. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117503.	1.8	3
8	Marine anoxia linked to abrupt global warming during Earth's penultimate icehouse. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022, 119, e2115231119.	3.3	24
9	Reconstructing seawater $\delta^{18}\text{O}$ and $\delta^{34}\text{S}$ values with solid Earth system evolution. <i>Earth and Planetary Science Letters</i> , 2022, 592, 117637.	1.8	5
10	Marine siliceous ecosystem decline led to sustained anomalous Early Triassic warmth. <i>Nature Communications</i> , 2022, 13, .	5.8	9
11	The influence of invertebrate faecal material on compositional heterogeneity, diagenesis and trace metal distribution in the Ogeechee River estuary, Georgia, USA. <i>Sedimentology</i> , 2021, 68, 788-804.	1.6	0
12	Evaluation of shallow-water carbonates as a seawater zinc isotope archive. <i>Earth and Planetary Science Letters</i> , 2021, 553, 116599.	1.8	20
13	Reconstructing Neoproterozoic seawater chemistry from early diagenetic dolomite. <i>Geology</i> , 2021, 49, 442-446.	2.0	26
14	Mercury fluxes record regional volcanism in the South China craton prior to the end-Permian mass extinction. <i>Geology</i> , 2021, 49, 452-456.	2.0	57
15	Experimental evidence supports early silica cementation of the Ediacara Biota. <i>Geology</i> , 2021, 49, 51-55.	2.0	17
16	Global aerobics before Earth's oxygenation. <i>Nature Ecology and Evolution</i> , 2021, 5, 407-408.	3.4	2
17	Global marine redox evolution from the late Neoproterozoic to the early Paleozoic constrained by the integration of Mo and U isotope records. <i>Earth-Science Reviews</i> , 2021, 214, 103506.	4.0	52
18	Holocene Spatiotemporal Redox Variations in the Southern Baltic Sea. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	2

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19	The kaolinite shuttle links the Great Oxidation and Lomagundi events. <i>Nature Communications</i> , 2021, 12, 2944.	5.8	19
20	A lithium-isotope perspective on the evolution of carbon and silicon cycles. <i>Nature</i> , 2021, 595, 394-398.	13.7	56
21	A long-term record of early to mid-Paleozoic marine redox change. <i>Science Advances</i> , 2021, 7, .	4.7	33
22	Bioturbation feedbacks on the phosphorus cycle. <i>Earth and Planetary Science Letters</i> , 2021, 566, 116961.	1.8	16
23	Oxygenation, Life, and the Planetary System during Earth's Middle History: An Overview. <i>Astrobiology</i> , 2021, 21, 906-923.	1.5	85
24	A largely invariant marine dissolved organic carbon reservoir across Earth's history. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	22
25	Oxygen isotopic fingerprints on the phosphorus cycle within the deep seafloor biosphere. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 310, 169-186.	1.6	5
26	The isotopic composition of sedimentary organic zinc and implications for the global Zn isotope mass balance. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 314, 16-26.	1.6	12
27	Evolution of the structure and impact of Earth's biosphere. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 123-139.	12.2	37
28	Pliocene decoupling of equatorial Pacific temperature and pH gradients. <i>Nature</i> , 2021, 598, 457-461.	13.7	14
29	Felsic volcanism as a factor driving the end-Permian mass extinction. <i>Science Advances</i> , 2021, 7, eabh1390.	4.7	63
30	Triple oxygen isotope constraints on atmospheric O ₂ and biological productivity during the mid-Proterozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	9
31	<i>Diopatra cuprea</i> worm burrow parchment: a cautionary tale of infaunal surface reactivity. <i>Lethaia</i> , 2020, 53, 47-61.	0.6	7
32	Extensive marine anoxia associated with the Late Devonian Hangenberg Crisis. <i>Earth and Planetary Science Letters</i> , 2020, 533, 115976.	1.8	49
33	Evolution of the Global Carbon Cycle and Climate Regulation on Earth. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2018GB006061.	1.9	78
34	Revisiting groundwater carbon fluxes to the ocean with implications for the carbon cycle. <i>Geology</i> , 2020, 48, 67-71.	2.0	14
35	Lithium isotope composition of modern and fossilized Cenozoic brachiopods. <i>Geology</i> , 2020, 48, 1058-1061.	2.0	25
36	The role of environmental factors in the long-term evolution of the marine biological pump. <i>Nature Geoscience</i> , 2020, 13, 812-816.	5.4	38

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37	The role of calcium in regulating marine phosphorus burial and atmospheric oxygenation. <i>Nature Communications</i> , 2020, 11, 2232.	5.8	20
38	Weathering, alteration and reconstructing Earth's oxygenation. <i>Interface Focus</i> , 2020, 10, 20190140.	1.5	25
39	Palaeoproterozoic oxygenated oceans following the Lomagundi-Jatuli Event. <i>Nature Geoscience</i> , 2020, 13, 302-306.	5.4	47
40	Large Mass-Independent Oxygen Isotope Fractionations in Mid-Proterozoic Sediments: Evidence for a Low-Oxygen Atmosphere?. <i>Astrobiology</i> , 2020, 20, 628-636.	1.5	18
41	On the co-evolution of surface oxygen levels and animals. <i>Geobiology</i> , 2020, 18, 260-281.	1.1	82
42	Uranium Isotope Fractionation in Non-sulfidic Anoxic Settings and the Global Uranium Isotope Mass Balance. <i>Global Biogeochemical Cycles</i> , 2020, 34, e2020GB006649.	1.9	40
43	Biogeochemical Controls on the Redox Evolution of Earth's Oceans and Atmosphere. <i>Elements</i> , 2020, 16, 191-196.	0.5	19
44	The impact of marine nutrient abundance on early eukaryotic ecosystems. <i>Geobiology</i> , 2020, 18, 139-151.	1.1	39
45	Persistent global marine euxinia in the early Silurian. <i>Nature Communications</i> , 2020, 11, 1804.	5.8	61
46	Point-counterpoint articles in geobiology. <i>Geobiology</i> , 2020, 18, 259-259.	1.1	1
47	The effects of diagenesis on lithium isotope ratios of shallow marine carbonates. <i>Numerische Mathematik</i> , 2020, 320, 150-184.	0.7	37
48	Uranium isotopes in marine carbonates as a global ocean paleoredox proxy: A critical review. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 287, 27-49.	1.6	63
49	Store and share ancient rocks. <i>Nature</i> , 2020, 581, 137-139.	13.7	5
50	The geologic history of seawater oxygen isotopes from marine iron oxides. <i>Science</i> , 2019, 365, 469-473.	6.0	81
51	Petrological evidence supports the death mask model for the preservation of Ediacaran soft-bodied organisms in South Australia: COMMENT. <i>Geology</i> , 2019, 47, e473-e473.	2.0	4
52	Multiple negative molybdenum isotope excursions in the Doushantuo Formation (South China) fingerprint complex redox-related processes in the Ediacaran Nanhua Basin. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 191-209.	1.6	52
53	Mercury evidence of intense volcanic effects on land during the Permian-Triassic transition. <i>Geology</i> , 2019, 47, 1117-1121.	2.0	89
54	Assessing bulk carbonates as archives for seawater Li isotope ratios. <i>Chemical Geology</i> , 2019, 530, 119338.	1.4	39

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55	Rapid ocean acidification and protracted Earth system recovery followed the end-Cretaceous Chicxulub impact. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 22500-22504.	3.3	116
56	A paleosol record of the evolution of Cr redox cycling and evidence for an increase in atmospheric oxygen during the Neoproterozoic. <i>Geobiology</i> , 2019, 17, 579-593.	1.1	27
57	Carbonation and decarbonation reactions: Implications for planetary habitability. <i>American Mineralogist</i> , 2019, 104, 1369-1380.	0.9	30
58	Mercury enrichments provide evidence of Early Triassic volcanism following the end-Permian mass extinction. <i>Earth-Science Reviews</i> , 2019, 195, 191-212.	4.0	81
59	Authigenic origin for a massive negative carbon isotope excursion. <i>Geology</i> , 2019, 47, 115-118.	2.0	25
60	Shallow water redox conditions of the mid-Proterozoic Muskwa Assemblage, British Columbia, Canada. <i>Numerische Mathematik</i> , 2019, 319, 122-157.	0.7	14
61	Evidence for a prolonged Permian–Triassic extinction interval from global marine mercury records. <i>Nature Communications</i> , 2019, 10, 1563.	5.8	136
62	Mercury in marine Ordovician/Silurian boundary sections of South China is sulfide-hosted and non-volcanic in origin. <i>Earth and Planetary Science Letters</i> , 2019, 511, 130-140.	1.8	134
63	Subglacial meltwater supported aerobic marine habitats during Snowball Earth. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 25478-25483.	3.3	23
64	Two-step deoxygenation at the end of the Paleoproterozoic Lomagundi Event. <i>Earth and Planetary Science Letters</i> , 2018, 486, 70-83.	1.8	58
65	Zircon (U–Th)/He Thermochronometric Constraints on Himalayan Thrust Belt Exhumation, Bedrock Weathering, and Cenozoic Seawater Chemistry. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 257-271.	1.0	29
66	From orogenies to oxygen. <i>Nature Geoscience</i> , 2018, 11, 9-10.	5.4	10
67	Highly heterogeneous $\delta^{34}\text{S}$ conditions in the early Ediacaran Yangtze Sea. <i>Precambrian Research</i> , 2018, 311, 157-166.	1.2	42
68	The effects of diagenesis on geochemical paleoredox proxies in sedimentary carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 232, 265-287.	1.6	92
69	Evidence for episodic oxygenation in a weakly redox-buffered deep mid-Proterozoic ocean. <i>Chemical Geology</i> , 2018, 483, 581-594.	1.4	73
70	Increased productivity as a primary driver of marine anoxia in the Lower Cambrian. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2018, 491, 1-9.	1.0	48
71	Marine redox fluctuation as a potential trigger for the Cambrian explosion. <i>Geology</i> , 2018, 46, 587-590.	2.0	97
72	Phytoplankton contributions to the trace-element composition of Precambrian banded iron formations. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 941-951.	1.6	28

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73	Stepwise oxygenation of the Paleozoic atmosphere. <i>Nature Communications</i> , 2018, 9, 4081.	5.8	166
74	Making Sense of Massive Carbon Isotope Excursions With an Inverse Carbon Cycle Model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2018, 123, 2485-2496.	1.3	26
75	Earth's youngest banded iron formation implies ferruginous conditions in the Early Cambrian ocean. <i>Scientific Reports</i> , 2018, 8, 9970.	1.6	33
76	UV radiation limited the expansion of cyanobacteria in early marine photic environments. <i>Nature Communications</i> , 2018, 9, 3088.	5.8	44
77	A Mesoproterozoic shift in uranium isotope systematics. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 238, 438-452.	1.6	52
78	Constraints on Paleoproterozoic atmospheric oxygen levels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, 8104-8109.	3.3	83
79	The iron paleoredox proxies: A guide to the pitfalls, problems and proper practice. <i>Numerische Mathematik</i> , 2018, 318, 491-526.	0.7	174
80	An evaluation of sedimentary molybdenum and iron as proxies for pore fluid paleoredox conditions. <i>Numerische Mathematik</i> , 2018, 318, 527-556.	0.7	63
81	Model based Paleozoic atmospheric oxygen estimates: a revisit to GEOCARBSULF. <i>Numerische Mathematik</i> , 2018, 318, 557-589.	0.7	12
82	Triple oxygen isotope evidence for limited mid-Proterozoic primary productivity. <i>Nature</i> , 2018, 559, 613-616.	13.7	144
83	Reverse weathering as a long-term stabilizer of marine pH and planetary climate. <i>Nature</i> , 2018, 560, 471-475.	13.7	149
84	A case for low atmospheric oxygen levels during Earth's middle history. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 149-159.	1.1	64
85	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. <i>Geobiology</i> , 2018, 16, 341-352.	1.1	65
86	Chromium isotope systematics in the Connecticut River. <i>Chemical Geology</i> , 2017, 456, 98-111.	1.4	69
87	Perspectives on Proterozoic surface ocean redox from iodine contents in ancient and recent carbonate. <i>Earth and Planetary Science Letters</i> , 2017, 463, 159-170.	1.8	172
88	A Study of the Microbial Spatial Heterogeneity of Bahamian Thrombolites Using Molecular, Biochemical, and Stable Isotope Analyses. <i>Astrobiology</i> , 2017, 17, 413-430.	1.5	37
89	Global water cycle and the coevolution of the Earth's interior and surface environment. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20150393.	1.6	119
90	Oxygenation history of the Neoproterozoic to early Phanerozoic and the rise of land plants. <i>Earth and Planetary Science Letters</i> , 2017, 466, 12-19.	1.8	203

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91	Geochemistry of Paleoproterozoic Gunflint Formation carbonate: Implications for hydrosphere-atmosphere evolution. <i>Precambrian Research</i> , 2017, 290, 126-146.	1.2	18
92	Evolution of the global phosphorus cycle. <i>Nature</i> , 2017, 541, 386-389.	13.7	397
93	Compensatory Distal Reabsorption Drives Diuretic Resistance in Human Heart Failure. <i>Journal of the American Society of Nephrology: JASN</i> , 2017, 28, 3414-3424.	3.0	75
94	A new estimate of detrital redox-sensitive metal concentrations and variability in fluxes to marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 215, 337-353.	1.6	96
95	The Molybdenum Isotope System as a Tracer of Slab Input in Subduction Zones: An Example From Martinique, Lesser Antilles Arc. <i>Geochemistry, Geophysics, Geosystems</i> , 2017, 18, 4674-4689.	1.0	57
96	Redox-independent chromium isotope fractionation induced by ligand-promoted dissolution. <i>Nature Communications</i> , 2017, 8, 1590.	5.8	75
97	Investigating controls on boron isotope ratios in shallow marine carbonates. <i>Earth and Planetary Science Letters</i> , 2017, 458, 380-393.	1.8	37
98	Two pulses of oceanic environmental disturbance during the Permian–Triassic boundary crisis. <i>Earth and Planetary Science Letters</i> , 2016, 443, 139-152.	1.8	71
99	Sedimentary chromium isotopic compositions across the Cretaceous OAE2 at Demerara Rise Site 1258. <i>Chemical Geology</i> , 2016, 429, 85-92.	1.4	44
100	Continental arc volcanism as the principal driver of icehouse-greenhouse variability. <i>Science</i> , 2016, 352, 444-447.	6.0	269
101	No 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, E2550-1.	3.3	44
102	The chromium isotope composition of reducing and oxic marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 184, 1-19.	1.6	83
103	Integrated geochemical-petrographic insights from component-selective ^{238}U of Cryogenian marine carbonates. <i>Geology</i> , 2016, 44, 935-938.	2.0	52
104	Earth's oxygen cycle and the evolution of animal life. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 8933-8938.	3.3	205
105	Trace elements at the intersection of marine biological and geochemical evolution. <i>Earth-Science Reviews</i> , 2016, 163, 323-348.	4.0	135
106	A shale-hosted Cr isotope record of low atmospheric oxygen during the Proterozoic. <i>Geology</i> , 2016, 44, 555-558.	2.0	228
107	Chromium isotope fractionation during subduction-related metamorphism, black shale weathering, and hydrothermal alteration. <i>Chemical Geology</i> , 2016, 423, 19-33.	1.4	77
108	A highly redox-heterogeneous ocean in South China during the early Cambrian (529–514 Ma): Implications for biota-environment co-evolution. <i>Earth and Planetary Science Letters</i> , 2016, 441, 38-51.	1.8	198

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109	Ediacaran Marine Redox Heterogeneity and Early Animal Ecosystems. <i>Scientific Reports</i> , 2015, 5, 17097.	1.6	59
110	Late Proterozoic Transitions in Climate, Oxygen, and Tectonics, and the Rise of Complex Life. <i>The Paleontological Society Papers</i> , 2015, 21, 47-82.	0.8	20
111	Marine redox conditions in the middle Proterozoic ocean and isotopic constraints on authigenic carbonate formation: Insights from the Chuanlinggou Formation, Yanshan Basin, North China. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 150, 90-105.	1.6	71
112	The ketone metabolite \hat{I}^2 -hydroxybutyrate blocks NLRP3 inflammasome-mediated inflammatory disease. <i>Nature Medicine</i> , 2015, 21, 263-269.	15.2	1,400
113	Chemostratigraphy of the Shaler Supergroup, Victoria Island, NW Canada: A record of ocean composition prior to the Cryogenian glaciations. <i>Precambrian Research</i> , 2015, 263, 232-245.	1.2	59
114	Protracted development of bioturbation through the early Palaeozoic Era. <i>Nature Geoscience</i> , 2015, 8, 865-869.	5.4	123
115	The Long Road to Animal Life: Two Billion Years of Evolving Oxygen in the Atmosphere and Ocean and Escaping the "Boring Billion". <i>The Paleontological Society Special Publications</i> , 2014, 13, 48-49.	0.0	0
116	The elements of marine life. <i>Nature Geoscience</i> , 2014, 7, 855-856.	5.4	36
117	An iodine record of Paleoproterozoic surface ocean oxygenation. <i>Geology</i> , 2014, 42, 619-622.	2.0	111
118	Iron isotopes in an Archean ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 133, 443-462.	1.6	118
119	Reply to comment on "New age constraints for the Proterozoic Aravalli-Delhi successions of India and their implications" by Melezhik et al. [<i>Precambrian Res.</i> (2014)]. <i>Precambrian Research</i> , 2014, 246, 371-372.	1.2	3
120	Cobalt and marine redox evolution. <i>Earth and Planetary Science Letters</i> , 2014, 390, 253-263.	1.8	95
121	The rise of oxygen in Earth's early ocean and atmosphere. <i>Nature</i> , 2014, 506, 307-315.	13.7	1,966
122	Evidence for oxygenic photosynthesis half a billion years before the Great Oxidation Event. <i>Nature Geoscience</i> , 2014, 7, 283-286.	5.4	444
123	Low Mid-Proterozoic atmospheric oxygen levels and the delayed rise of animals. <i>Science</i> , 2014, 346, 635-638.	6.0	594
124	The isotopic composition of authigenic chromium in anoxic marine sediments: A case study from the Cariaco Basin. <i>Earth and Planetary Science Letters</i> , 2014, 407, 9-18.	1.8	99
125	Evolution: A Fixed-Nitrogen Fix in the Early Ocean?. <i>Current Biology</i> , 2014, 24, R276-R278.	1.8	8
126	Pyrite multiple-sulfur isotope evidence for rapid expansion and contraction of the early Paleoproterozoic seawater sulfate reservoir. <i>Earth and Planetary Science Letters</i> , 2014, 389, 95-104.	1.8	118

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127	New age constraints for the Proterozoic Aravalliâ€“Delhi successions of India and their implications. <i>Precambrian Research</i> , 2013, 238, 120-128.	1.2	133
128	Proterozoic ocean redox and biogeochemical stasis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 5357-5362.	3.3	418
129	Bioavailability of zinc in marine systems through time. <i>Nature Geoscience</i> , 2013, 6, 125-128.	5.4	84
130	Long-term sedimentary recycling of rare sulphur isotope anomalies. <i>Nature</i> , 2013, 497, 100-103.	13.7	96
131	Sulfur record of rising and falling marine oxygen and sulfate levels during the Lomagundi event. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18300-18305.	3.3	174
132	Iron isotope composition of some Archean and Proterozoic iron formations. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 80, 158-169.	1.6	147
133	Ocean oxygenation in the wake of the Marinoan glaciation. <i>Nature</i> , 2012, 489, 546-549.	13.7	420
134	Aerobic bacterial pyrite oxidation and acid rock drainage during the Great Oxidation Event. <i>Nature</i> , 2011, 478, 369-373.	13.7	299
135	Widespread iron-rich conditions in the mid-Proterozoic ocean. <i>Nature</i> , 2011, 477, 448-451.	13.7	385
136	The evolution of the marine phosphate reservoir. <i>Nature</i> , 2010, 467, 1088-1090.	13.7	361
137	Rare Earth Element and yttrium compositions of Archean and Paleoproterozoic Fe formations revisited: New perspectives on the significance and mechanisms of deposition. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 6387-6405.	1.6	373
138	Iron-oxidizing microbial ecosystems thrived in late Paleoproterozoic redox-stratified oceans. <i>Earth and Planetary Science Letters</i> , 2009, 286, 230-242.	1.8	166
139	Stromatolite branching in the Neoproterozoic of the Centralian Superbasin, Australia: an investigation into sedimentary and microbial control of stromatolite morphology. <i>Geobiology</i> , 2007, 6, 070816220552001-???	1.1	32