

Simon W Poulton

List of Publications by Year in descending order

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132
papers

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22153

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times ranked

7026
citing authors

#	ARTICLE	IF	CITATIONS
1	A template for an improved rock-based subdivision of the pre-Cryogenian timescale. <i>Journal of the Geological Society</i> , 2022, 179, .	2.1	18
2	Insights from modern diffuse-flow hydrothermal systems into the origin of post-GOE deep-water Fe-Si precipitates. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 317, 1-17.	3.9	2
3	A short-lived oxidation event during the early Ediacaran and delayed oxygenation of the Proterozoic ocean. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117274.	4.4	18
4	Calibrating the temporal and spatial dynamics of the Ediacaran - Cambrian radiation of animals. <i>Earth-Science Reviews</i> , 2022, 225, 103913.	9.1	39
5	Carbonate shutdown, phosphogenesis and the variable style of marine anoxia in the late Famennian (Late Devonian) in western Laurentia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2022, 589, 110835.	2.3	8
6	Extensive marine anoxia in the European epicontinental sea during the end-Triassic mass extinction. <i>Global and Planetary Change</i> , 2022, 210, 103771.	3.5	20
7	No effect of thermal maturity on the Mo, U, Cd, and Zn isotope compositions of Lower Jurassic organic-rich sediments. <i>Geology</i> , 2022, 50, 598-602.	4.4	16
8	Earth's Great Oxidation Event facilitated by the rise of sedimentary phosphorus recycling. <i>Nature Geoscience</i> , 2022, 15, 210-215.	12.9	26
9	Pyrite mega-analysis reveals modes of anoxia through geological time. <i>Science Advances</i> , 2022, 8, eabj5687.	10.3	11
10	A nutrient control on expanded anoxia and global cooling during the Late Ordovician mass extinction. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	17
11	Decoupled oxygenation of the Ediacaran ocean and atmosphere during the rise of early animals. <i>Earth and Planetary Science Letters</i> , 2022, 591, 117619.	4.4	17
12	Origin of the Neoproterozoic VMS-BIF Metallogenic Association in the Qingyuan Greenstone Belt, North China Craton: Constraints from Geology, Geochemistry, and Iron and Multiple Sulfur (³³ S). <i>Earth and Planetary Science Letters</i> , 2021, 577, 117274.	3.9	10
13	Redox evolution and the development of oxygen minimum zones in the Eastern Mediterranean Levantine basin during the early Holocene. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 297, 82-100.	3.9	10
14	A 200-million-year delay in permanent atmospheric oxygenation. <i>Nature</i> , 2021, 592, 232-236.	27.8	105
15	Pulsed oxygenation events drove progressive oxygenation of the early Mesoproterozoic ocean. <i>Earth and Planetary Science Letters</i> , 2021, 559, 116754.	4.4	28
16	Curation and Analysis of Global Sedimentary Geochemical Data to Inform Earth History. <i>GSA Today</i> , 2021, 31, 4-10.	2.0	9
17	The origin of early-Paleozoic banded iron formations in NW China. <i>Gondwana Research</i> , 2021, 93, 218-226.	6.0	3
18	Isotopic constraints on ocean redox at the end of the Eocene. <i>Earth and Planetary Science Letters</i> , 2021, 562, 116814.	4.4	6

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19	The Sedimentary Geochemistry and Paleoenvironments Project. <i>Geobiology</i> , 2021, 19, 545-556.	2.4	26
20	Limited expression of the Paleoproterozoic Oklo natural nuclear reactor phenomenon in the aftermath of a widespread deoxygenation event ~2.11–2.06 billion years ago. <i>Chemical Geology</i> , 2021, 578, 120315.	3.3	3
21	A chemical weathering control on the delivery of particulate iron to the continental shelf. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 204-216.	3.9	15
22	Arid climate disturbance and the development of salinized lacustrine oil shale in the Middle Jurassic Dameigou Formation, Qaidam Basin, northwestern China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2021, 577, 110533.	2.3	15
23	Progressive development of ocean anoxia in the end-Permian pelagic Panthalassa. <i>Global and Planetary Change</i> , 2021, 207, 103650.	3.5	11
24	A Mississippian black shale record of redox oscillation in the Craven Basin, UK. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2020, 538, 109423.	2.3	11
25	Spatio-temporal evolution of ocean redox and nitrogen cycling in the early Cambrian Yangtze ocean. <i>Chemical Geology</i> , 2020, 554, 119803.	3.3	18
26	A nutrient control on marine anoxia during the end-Permian mass extinction. <i>Nature Geoscience</i> , 2020, 13, 640-646.	12.9	56
27	The biogeochemistry of ferruginous lakes and past ferruginous oceans. <i>Earth-Science Reviews</i> , 2020, 211, 103430.	9.1	36
28	Tracing water column euxinia in Eastern Mediterranean Sapropels S5 and S7. <i>Chemical Geology</i> , 2020, 545, 119627.	3.3	22
29	Development of Iron Speciation Reference Materials for Palaeoredox Analysis. <i>Geostandards and Geoanalytical Research</i> , 2020, 44, 581-591.	3.1	31
30	The origin and rise of complex life: progress requires interdisciplinary integration and hypothesis testing. <i>Interface Focus</i> , 2020, 10, 20200024.	3.0	13
31	Evaluating a primary carbonate pathway for manganese enrichments in reducing environments. <i>Earth and Planetary Science Letters</i> , 2020, 538, 116201.	4.4	42
32	Phosphorus-limited conditions in the early Neoproterozoic ocean maintained low levels of atmospheric oxygen. <i>Nature Geoscience</i> , 2020, 13, 296-301.	12.9	63
33	Unravelling the paleoecology of flat clams: New insights from an Upper Triassic halobiid bivalve. <i>Global and Planetary Change</i> , 2020, 190, 103195.	3.5	4
34	Molybdenum isotope and trace metal signals in an iron-rich Mesoproterozoic ocean: A snapshot from the Vindhyan Basin, India. <i>Precambrian Research</i> , 2020, 343, 105718.	2.7	18
35	Carbon isotopes in clastic rocks and the Neoproterozoic carbon cycle. <i>Numerische Mathematik</i> , 2020, 320, 97-124.	1.4	55
36	Copper and its Isotopes in Organic-Rich Sediments: From the Modern Peru Margin to Archean Shales. <i>Geosciences (Switzerland)</i> , 2019, 9, 325.	2.2	10

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37	Development of a modified SEDEX phosphorus speciation method for ancient rocks and modern iron-rich sediments. <i>Chemical Geology</i> , 2019, 524, 383-393.	3.3	24
38	Chromium isotopes in marine hydrothermal sediments. <i>Chemical Geology</i> , 2019, 529, 119286.	3.3	19
39	Possible links between extreme oxygen perturbations and the Cambrian radiation of animals. <i>Nature Geoscience</i> , 2019, 12, 468-474.	12.9	96
40	Limited oxygen production in the Mesoarchean ocean. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 6647-6652.	7.1	42
41	Controls on amorphous organic matter type and sulphurization in a Mississippian black shale. <i>Review of Palaeobotany and Palynology</i> , 2019, 268, 1-18.	1.5	20
42	Phosphorus cycling in Lake Cadagno, Switzerland: A low sulfate euxinic ocean analogue. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 251, 116-135.	3.9	51
43	Stepwise Earth oxygenation is an inherent property of global biogeochemical cycling. <i>Science</i> , 2019, 366, 1333-1337.	12.6	85
44	Extending the applications of sediment profile imaging to geochemical interpretations using colour. <i>Continental Shelf Research</i> , 2019, 185, 16-22.	1.8	7
45	Oxygenation of the Mesoproterozoic ocean and the evolution of complex eukaryotes. <i>Nature Geoscience</i> , 2018, 11, 345-350.	12.9	124
46	A model for the oceanic mass balance of rhenium and implications for the extent of Proterozoic ocean anoxia. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 227, 75-95.	3.9	66
47	Molybdenum record from black shales indicates oscillating atmospheric oxygen levels in the early Paleoproterozoic. <i>Numerische Mathematik</i> , 2018, 318, 275-299.	1.4	31
48	Ocean euxinia and climate change "double whammy" drove the Late Ordovician mass extinction. <i>Geology</i> , 2018, 46, 535-538.	4.4	148
49	Stepwise oxygenation of the Paleozoic atmosphere. <i>Nature Communications</i> , 2018, 9, 4081.	12.8	166
50	Shallow water anoxia in the Mesoproterozoic ocean: Evidence from the Bashkir Meganticlinorium, Southern Urals. <i>Precambrian Research</i> , 2018, 317, 196-210.	2.7	32
51	Did anoxia terminate Ediacaran benthic communities? Evidence from early diagenesis. <i>Precambrian Research</i> , 2018, 313, 134-147.	2.7	23
52	Early Palaeozoic ocean anoxia and global warming driven by the evolution of shallow burrowing. <i>Nature Communications</i> , 2018, 9, 2554.	12.8	56
53	The iron paleoredox proxies: A guide to the pitfalls, problems and proper practice. <i>Numerische Mathematik</i> , 2018, 318, 491-526.	1.4	174
54	Links between seawater paleoredox and the formation of sediment-hosted massive sulphide (SHMS) deposits "Fe" speciation and Mo isotope constraints from Late Devonian mudstones. <i>Chemical Geology</i> , 2018, 490, 45-60.	3.3	19

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55	Aerobic iron and manganese cycling in a redox-stratified Mesoproterozoic epicontinental sea. <i>Earth and Planetary Science Letters</i> , 2018, 500, 28-40.	4.4	54
56	Early phosphorus redigested. <i>Nature Geoscience</i> , 2017, 10, 75-76.	12.9	31
57	Microfossils from the late Mesoproterozoic to early Neoproterozoic Atar/El Mreiti Group, Taoudeni Basin, Mauritania, northwestern Africa. <i>Precambrian Research</i> , 2017, 291, 63-82.	2.7	69
58	Onset of the aerobic nitrogen cycle during the Great Oxidation Event. <i>Nature</i> , 2017, 542, 465-467.	27.8	114
59	Controls on the evolution of Ediacaran metazoan ecosystems: A redox perspective. <i>Geobiology</i> , 2017, 15, 516-551.	2.4	79
60	Biological regulation of atmospheric chemistry en route to planetary oxygenation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E2571-E2579.	7.1	64
61	Anoxic development of sapropel S1 in the Nile Fan inferred from redox sensitive proxies, Fe speciation, Fe and Mo isotopes. <i>Chemical Geology</i> , 2017, 475, 24-39.	3.3	24
62	Fraction-specific controls on the trace element distribution in iron formations: Implications for trace metal stable isotope proxies. <i>Chemical Geology</i> , 2017, 474, 17-32.	3.3	18
63	The onset of widespread marine red beds and the evolution of ferruginous oceans. <i>Nature Communications</i> , 2017, 8, 399.	12.8	86
64	Marine oxygen production and open water supported an active nitrogen cycle during the Marinoan Snowball Earth. <i>Nature Communications</i> , 2017, 8, 1316.	12.8	25
65	Latest Permian carbonate carbon isotope variability traces heterogeneous organic carbon accumulation and authigenic carbonate formation. <i>Climate of the Past</i> , 2017, 13, 1635-1659.	3.4	18
66	A palaeoecological model for the late Mesoproterozoic to early Neoproterozoic Atar/El Mreiti Group, Taoudeni Basin, Mauritania, northwestern Africa. <i>Precambrian Research</i> , 2017, 299, 1-14.	2.7	31
67	Potentially bioavailable iron delivery by iceberg-hosted sediments and atmospheric dust to the polar oceans. <i>Biogeosciences</i> , 2016, 13, 3887-3900.	3.3	65
68	The Bacteriophanepolyol Inventory of Novel Aerobic Methane Oxidising Bacteria Reveals New Biomarker Signatures of Aerobic Methanotrophy in Marine Systems. <i>PLoS ONE</i> , 2016, 11, e0165635.	2.5	41
69	A multiproxy study distinguishes environmental change from diagenetic alteration in the recent sedimentary record of the inner Cadiz Bay (SW Spain). <i>Holocene</i> , 2016, 26, 1355-1370.	1.7	8
70	Repeated enrichment of trace metals and organic carbon on an Eocene high-energy shelf caused by anoxia and reworking. <i>Geology</i> , 2016, 44, 1011-1014.	4.4	19
71	Palaeoceanographic controls on spatial redox distribution over the Yangtze Platform during the Ediacaran to Cambrian transition. <i>Sedimentology</i> , 2016, 63, 378-410.	3.1	85
72	Black shale deposition and early diagenetic dolomite cementation during Oceanic Anoxic Event 1: The mid-Cretaceous Maracaibo Platform, northwestern South America. <i>Numerische Mathematik</i> , 2016, 316, 669-711.	1.4	18

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73	Trace elements at the intersection of marine biological and geochemical evolution. <i>Earth-Science Reviews</i> , 2016, 163, 323-348.	9.1	135
74	Open system sulphate reduction in a diagenetic environment – Isotopic analysis of barite ($\delta^{34}\text{S}$ and $\delta^{18}\text{O}$) and pyrite ($\delta^{34}\text{S}$) from the Tom and Jason Late Devonian Zn–Pb–Ba deposits, Selwyn Basin, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 180, 146-163.	3.9	77
75	Molybdenum drawdown during Cretaceous Oceanic Anoxic Event 2. <i>Earth and Planetary Science Letters</i> , 2016, 440, 81-91.	4.4	61
76	Determination of the stable iron isotopic composition of sequentially leached iron phases in marine sediments. <i>Chemical Geology</i> , 2016, 421, 93-102.	3.3	58
77	Multiple oscillations in Neoproterozoic atmospheric chemistry. <i>Earth and Planetary Science Letters</i> , 2015, 431, 264-273.	4.4	67
78	A global transition to ferruginous conditions in the early Neoproterozoic oceans. <i>Nature Geoscience</i> , 2015, 8, 466-470.	12.9	105
79	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
80	Rise to modern levels of ocean oxygenation coincided with the Cambrian radiation of animals. <i>Nature Communications</i> , 2015, 6, 7142.	12.8	250
81	A continental-weathering control on orbitally driven redox-nutrient cycling during Cretaceous Oceanic Anoxic Event 2. <i>Geology</i> , 2015, 43, 963-966.	4.4	77
82	Selenium isotope evidence for progressive oxidation of the Neoproterozoic biosphere. <i>Nature Communications</i> , 2015, 6, 10157.	12.8	72
83	Dynamic redox conditions control late Ediacaran metazoan ecosystems in the Nama Group, Namibia. <i>Precambrian Research</i> , 2015, 261, 252-271.	2.7	134
84	Ocean acidification and the Permo-Triassic mass extinction. <i>Science</i> , 2015, 348, 229-232.	12.6	284
85	Phosphorus sources for phosphatic Cambrian carbonates. <i>Bulletin of the Geological Society of America</i> , 2014, 126, 145-163.	3.3	52
86	Phosphorus burial and diagenesis in the central Bering Sea (Bowers Ridge, IODP Site U1341): Perspectives on the marine P cycle. <i>Chemical Geology</i> , 2014, 363, 270-282.	3.3	40
87	Co-evolution of eukaryotes and ocean oxygenation in the Neoproterozoic era. <i>Nature Geoscience</i> , 2014, 7, 257-265.	12.9	305
88	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
89	Assessing the utility of Fe/Al and Fe-speciation to record water column redox conditions in carbonate-rich sediments. <i>Chemical Geology</i> , 2014, 382, 111-122.	3.3	181
90	Anaerobic ammonium-oxidising bacteria: A biological source of the bacteriohopanetetrol stereoisomer in marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 140, 50-64.	3.9	49

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91	Bioavailability of zinc in marine systems through time. <i>Nature Geoscience</i> , 2013, 6, 125-128.	12.9	84
92	ReOs age constraints and new observations of Proterozoic glacial deposits in the Vazante Group, Brazil. <i>Precambrian Research</i> , 2013, 238, 199-213.	2.7	48
93	Surface charge and growth of sulphate and carbonate green rust in aqueous media. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 108, 141-153.	3.9	90
94	Searching for an oxygenation event in the fossiliferous Ediacaran of northwestern Canada. <i>Chemical Geology</i> , 2013, 362, 273-286.	3.3	78
95	Redox changes in Early Cambrian black shales at Xiaotan section, Yunnan Province, South China. <i>Precambrian Research</i> , 2013, 225, 166-189.	2.7	116
96	Anoxia in the terrestrial environment during the late Mesoproterozoic. <i>Geology</i> , 2013, 41, 583-586.	4.4	75
97	Stability of the nitrogen cycle during development of sulfidic water in the redox-stratified late Paleoproterozoic Ocean. <i>Geology</i> , 2013, 41, 655-658.	4.4	57
98	Pathways for Neoproterozoic pyrite formation constrained by mass-independent sulfur isotopes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17638-17643.	7.1	125
99	Green rust formation controls nutrient availability in a ferruginous water column. <i>Geology</i> , 2012, 40, 599-602.	4.4	159
100	Molybdenum isotope fractionations observed under anoxic experimental conditions. <i>Geochemical Journal</i> , 2012, 46, 201-209.	1.0	21
101	Controls on Mo isotope fractionations in a Mn-rich anoxic marine sediment, Gullmar Fjord, Sweden. <i>Chemical Geology</i> , 2012, 296-297, 73-82.	3.3	95
102	A bistable organic-rich atmosphere on the Neoproterozoic Earth. <i>Nature Geoscience</i> , 2012, 5, 359-363.	12.9	201
103	Sedimentary phosphorus and iron cycling in and below the oxygen minimum zone of the northern Arabian Sea. <i>Biogeosciences</i> , 2012, 9, 2603-2624.	3.3	95
104	Molybdenum isotope constraints on the extent of late Paleoproterozoic ocean euxinia. <i>Earth and Planetary Science Letters</i> , 2011, 307, 450-460.	4.4	99
105	Does the Paleoproterozoic Animikie Basin record the sulfidic ocean transition?: COMMENT. <i>Geology</i> , 2011, 39, e241-e241.	4.4	5
106	Ferruginous Conditions: A Dominant Feature of the Ocean through Earth's History. <i>Elements</i> , 2011, 7, 107-112.	0.5	717
107	Spatial variability in oceanic redox structure 1.8 billion years ago. <i>Nature Geoscience</i> , 2010, 3, 486-490.	12.9	338
108	Pervasive oxygenation along late Archaean ocean margins. <i>Nature Geoscience</i> , 2010, 3, 647-652.	12.9	233

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109	An 80 million year oceanic redox history from Permian to Jurassic pelagic sediments of the Mino-Tamba terrane, SW Japan, and the origin of four mass extinctions. <i>Global and Planetary Change</i> , 2010, 71, 109-123.	3.5	172
110	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.	4.4	194
111	Fluctuations in Precambrian atmospheric oxygenation recorded by chromium isotopes. <i>Nature</i> , 2009, 461, 250-253.	27.8	554
112	Mo isotope fractionation during adsorption to Fe (oxyhydr)oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6502-6516.	3.9	248
113	Ferruginous Conditions Dominated Later Neoproterozoic Deep-Water Chemistry. <i>Science</i> , 2008, 321, 949-952.	12.6	626
114	Tracing the stepwise oxygenation of the Proterozoic ocean. <i>Nature</i> , 2008, 452, 456-459.	27.8	883
115	Redox sensitivity of P cycling during marine black shale formation: Dynamics of sulfidic and anoxic, non-sulfidic bottom waters. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3703-3717.	3.9	196
116	Turbidite depositional influences on the diagenesis of Beecher's Trilobite Bed and the Hunsrück Slate; sites of soft tissue pyritization. <i>Numerische Mathematik</i> , 2008, 308, 105-129.	1.4	97
117	Late-Neoproterozoic Deep-Ocean Oxygenation and the Rise of Animal Life. <i>Science</i> , 2007, 315, 92-95.	12.6	812
118	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.	3.9	70
119	Evolution of the oceanic sulfur cycle at the end of the Paleoproterozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 5723-5739.	3.9	102
120	Development of a sequential extraction procedure for iron: implications for iron partitioning in continentally derived particulates. <i>Chemical Geology</i> , 2005, 214, 209-221.	3.3	932
121	Chemical and physical characteristics of iron oxides in riverine and glacial meltwater sediments. <i>Chemical Geology</i> , 2005, 218, 203-221.	3.3	139
122	Sulphur and oxygen isotope signatures of late Neoproterozoic to early Cambrian sulphate, Yangtze Platform, China: Diagenetic constraints and seawater evolution. <i>Precambrian Research</i> , 2005, 137, 223-241.	2.7	103
123	The transition to a sulphidic ocean \hat{a} 1.84 billion years ago. <i>Nature</i> , 2004, 431, 173-177.	27.8	405
124	A revised scheme for the reactivity of iron (oxyhydr)oxide minerals towards dissolved sulfide. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3703-3715.	3.9	490
125	Sulfide oxidation and iron dissolution kinetics during the reaction of dissolved sulfide with ferrihydrite. <i>Chemical Geology</i> , 2003, 202, 79-94.	3.3	164
126	Detection and removal of dissolved hydrogen sulphide in flow-through systems via the sulphidation of hydrous iron (III) oxides. <i>Environmental Technology (United Kingdom)</i> , 2003, 24, 217-229.	2.2	9

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127	The use of hydrous iron (III) oxides for the removal of hydrogen sulphide in aqueous systems. <i>Water Research</i> , 2002, 36, 825-834.	11.3	78
128	In-situ determination of dissolved iron production in recent marine sediments. , 2002, 64, 282-291.		40
129	Solid phase associations, oceanic fluxes and the anthropogenic perturbation of transition metals in world river particulates. <i>Marine Chemistry</i> , 2000, 72, 17-31.	2.3	43
130	Porewater sulphur geochemistry and fossil preservation during phosphate diagenesis in a Lower Cretaceous shelf mudstone. <i>Sedimentology</i> , 1998, 45, 875-887.	3.1	15
131	The Ediacaran "Miaohe Member"™ of South China: new insights from palaeoredox proxies and stable isotope data. <i>Geological Magazine</i> , 0, , 1-15.	1.5	3
132	Combining Nitrogen Isotopes and Redox Proxies Strengthens Paleoenvironmental Interpretations: Examples From Neoproterozoic Snowball Earth Sediments. <i>Frontiers in Earth Science</i> , 0, 10, .	1.8	2