

Graham A Shields-Zhou

List of Publications by Year in descending order

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101
papers

9,395
citations

31902

53
h-index

37111

96
g-index

106
all docs

106
docs citations

106
times ranked

5045
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, .	0.9	18
2	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.	1.8	18
3	Progress towards an improved Precambrian seawater $87\text{Sr}/86\text{Sr}$ curve. <i>Earth-Science Reviews</i> , 2022, 224, 103869.	4.0	42
4	Calibrating the temporal and spatial dynamics of the Ediacaran - Cambrian radiation of animals. <i>Earth-Science Reviews</i> , 2022, 225, 103913.	4.0	39
5	The 1126 Ma volcanic event in the Dechang Area, SW Yangtze Block, and its significance. <i>Geological Magazine</i> , 2022, 159, 797-817.	0.9	1
6	Sedimentary Ce anomalies: Secular change and implications for paleoenvironmental evolution. <i>Earth-Science Reviews</i> , 2022, 229, 104015.	4.0	30
7	Decoupled oxygenation of the Ediacaran ocean and atmosphere during the rise of early animals. <i>Earth and Planetary Science Letters</i> , 2022, 591, 117619.	1.8	17
8	Evaporite weathering and deposition as a long-term climate forcing mechanism. <i>Geology</i> , 2021, 49, 299-303.	2.0	18
9	Revisiting stepwise ocean oxygenation with authigenic barium enrichments in marine mudrocks. <i>Geology</i> , 2021, 49, 1059-1063.	2.0	13
10	Highly dynamic marine redox state through the Cambrian explosion highlighted by authigenic $\delta^{238}\text{U}$ records. <i>Earth and Planetary Science Letters</i> , 2020, 544, 116361.	1.8	27
11	Phosphorus-limited conditions in the early Neoproterozoic ocean maintained low levels of atmospheric oxygen. <i>Nature Geoscience</i> , 2020, 13, 296-301.	5.4	63
12	Reconstructing Tonian seawater $87\text{Sr}/86\text{Sr}$ using calcite microspar. <i>Geology</i> , 2020, 48, 462-467.	2.0	45
13	Enhanced chemical weathering triggered an expansion of euxinic seawater in the aftermath of the Sturtian glaciation. <i>Earth and Planetary Science Letters</i> , 2020, 539, 116244.	1.8	45
14	Bird's-eye view of an Ediacaran subglacial landscape. <i>Geology</i> , 2019, 47, 705-709.	2.0	27
15	Calcium isotopes as a record of the marine calcium cycle versus carbonate diagenesis during the late Ediacaran. <i>Chemical Geology</i> , 2019, 529, 119319.	1.4	8
16	Unique Neoproterozoic carbon isotope excursions sustained by coupled evaporite dissolution and pyrite burial. <i>Nature Geoscience</i> , 2019, 12, 823-827.	5.4	87
17	Long-term evolution of terrestrial inputs from the Ediacaran to early Cambrian: Clues from Nd isotopes in shallow-marine carbonates, South China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 535, 109367.	1.0	23
18	Possible links between extreme oxygen perturbations and the Cambrian radiation of animals. <i>Nature Geoscience</i> , 2019, 12, 468-474.	5.4	96

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19	Uranium isotope evidence for an expansion of anoxia in terminal Ediacaran oceans. <i>Earth and Planetary Science Letters</i> , 2019, 506, 104-112.	1.8	86
20	Modelling the long-term carbon cycle, atmospheric CO ₂ , and Earth surface temperature from late Neoproterozoic to present day. <i>Gondwana Research</i> , 2019, 67, 172-186.	3.0	107
21	A deep marine organic carbon reservoir in the non-glacial Cryogenian ocean (Nanhua Basin, South) <i>TJ ETQq1 1 0.784314 rgBT /Overlo</i>	1.2	25
22	Implications of Carbonate and Chert Isotope Records for the Early Earth. , 2019, , 901-912.		0
23	Desequilibrio del ciclo del azufre y cambio ambiental durante el PerÃodo EdiacÃrico. <i>Estudios Geologicos</i> , 2019, 75, 114.	0.7	2
24	Tonian-Cryogenian boundary sections of Argyll, Scotland. <i>Precambrian Research</i> , 2018, 319, 37-64.	1.2	32
25	Coupling of ocean redox and animal evolution during the Ediacaran-Cambrian transition. <i>Nature Communications</i> , 2018, 9, 2575.	5.8	65
26	Carbon and carbon isotope mass balance in the Neoproterozoic Earth system. <i>Emerging Topics in Life Sciences</i> , 2018, 2, 257-265.	1.1	7
27	Descent into the Cryogenian. <i>Precambrian Research</i> , 2018, 319, 1-5.	1.2	13
28	Constraints on the late Ediacaran sulfur cycle from carbonate associated sulfate. <i>Precambrian Research</i> , 2017, 290, 113-125.	1.2	38
29	Tectonic controls on the long-term carbon isotope mass balance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 4318-4323.	3.3	57
30	Earth system transition during the Tonianâ€Cambrian interval of biological innovation: nutrients, climate, oxygen and the marine organic carbon capacitor. <i>Geological Society Special Publication</i> , 2017, 448, 161-177.	0.8	19
31	Elevated CO ₂ degassing rates prevented the return of Snowball Earth during the Phanerozoic. <i>Nature Communications</i> , 2017, 8, 1110.	5.8	37
32	Martin Brasier's contribution to the palaeobiology of the Ediacaranâ€Cambrian transition. <i>Geological Society Special Publication</i> , 2017, 448, 179-193.	0.8	3
33	Measuring the â€Great Unconformityâ€™ on the North China Craton using new detrital zircon age data. <i>Geological Society Special Publication</i> , 2017, 448, 145-159.	0.8	43
34	Palaeoceanographic controls on spatial redox distribution over the Yangtze Platform during the Ediacaranâ€Cambrian transition. <i>Sedimentology</i> , 2016, 63, 378-410.	1.6	85
35	Effective use of cerium anomalies as a redox proxy in carbonate-dominated marine settings. <i>Chemical Geology</i> , 2016, 438, 146-162.	1.4	368
36	Ediacaranâ€Cambrian phosphorites from the western margins of Gondwana and Baltica. <i>Sedimentology</i> , 2016, 63, 350-377.	1.6	38

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37	Low-oxygen waters limited habitable space for early animals. <i>Nature Communications</i> , 2016, 7, 12818.	5.8	125
38	A new rock-based definition for the Cryogenian Period (circa 720 – 635 Ma). <i>Episodes</i> , 2016, 39, 3-8.	0.8	77
39	A global transition to ferruginous conditions in the early Neoproterozoic oceans. <i>Nature Geoscience</i> , 2015, 8, 466-470.	5.4	105
40	Rise to modern levels of ocean oxygenation coincided with the Cambrian radiation of animals. <i>Nature Communications</i> , 2015, 6, 7142.	5.8	250
41	Marine redox variations and nitrogen cycle of the early Cambrian southern margin of the Yangtze Platform, South China: Evidence from nitrogen and organic carbon isotopes. <i>Precambrian Research</i> , 2015, 267, 209-226.	1.2	63
42	Co-evolution of eukaryotes and ocean oxygenation in the Neoproterozoic era. <i>Nature Geoscience</i> , 2014, 7, 257-265.	5.4	305
43	Nitrogen and organic carbon isotope stratigraphy of the Yangtze Platform during the Ediacaran–Cambrian transition in South China. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 398, 165-186.	1.0	60
44	Carbon and strontium isotope evolution of seawater across the Ediacaran–Cambrian transition: Evidence from the Xiaotan section, NE Yunnan, South China. <i>Precambrian Research</i> , 2013, 225, 128-147.	1.2	132
45	The DOUNCE event at the top of the Ediacaran Doushantuo Formation, South China: Broad stratigraphic occurrence and non-diagenetic origin. <i>Precambrian Research</i> , 2013, 225, 86-109.	1.2	97
46	Cerium anomaly variations in Ediacaran–earliest Cambrian carbonates from the Yangtze Gorges area, South China: Implications for oxygenation of coeval shallow seawater. <i>Precambrian Research</i> , 2013, 225, 110-127.	1.2	241
47	Marine biogeochemical cycling during the early Cambrian constrained by a nitrogen and organic carbon isotope study of the Xiaotan section, South China. <i>Precambrian Research</i> , 2013, 225, 148-165.	1.2	90
48	Redox changes in Early Cambrian black shales at Xiaotan section, Yunnan Province, South China. <i>Precambrian Research</i> , 2013, 225, 166-189.	1.2	116
49	Biogeochemical changes across the Ediacaran–Cambrian transition in South China. <i>Precambrian Research</i> , 2013, 225, 1-6.	1.2	31
50	Trace and rare earth element geochemistry of black shale and kerogen in the early Cambrian Niutitang Formation in Guizhou province, South China: Constraints for redox environments and origin of metal enrichments. <i>Precambrian Research</i> , 2013, 225, 218-229.	1.2	213
51	Carbonate-associated sulfate: Experimental comparisons of common extraction methods and recommendations toward a standard analytical protocol. <i>Chemical Geology</i> , 2012, 326-327, 132-144.	1.4	90
52	The Neoproterozoic oxygenation event: Environmental perturbations and biogeochemical cycling. <i>Earth-Science Reviews</i> , 2012, 110, 26-57.	4.0	436
53	Development of an inshore fringing coral reef using textural, compositional and stratigraphic data from Magnetic Island, Great Barrier Reef, Australia. <i>Marine Geology</i> , 2012, 299-302, 18-32.	0.9	23
54	Dissolution methods for strontium isotope stratigraphy: Guidelines for the use of bulk carbonate and phosphorite rocks. <i>Chemical Geology</i> , 2011, 290, 133-144.	1.4	91

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55	Toxic Cambrian oceans. <i>Nature</i> , 2011, 469, 42-43.	13.7	1
56	Analytical Constraints on the Measurement of the Sulfur Isotopic Composition and Concentration of Trace Sulfate in Phosphorites: Implications for Sulfur Isotope Studies of Carbonate and Phosphate Rocks. <i>Geostandards and Geoanalytical Research</i> , 2011, 35, 161-174.	1.7	6
57	Chapter 4 Chemostratigraphy and the Neoproterozoic glaciations. <i>Geological Society Memoir</i> , 2011, 36, 51-66.	0.9	27
58	The case for a Neoproterozoic Oxygenation Event: Geochemical evidence and biological consequences. <i>GSA Today</i> , 2011, 21, 4-11.	1.1	159
59	The geochemistry of primary and weathered oil shale and coquina across the Julia Creek vanadium deposit (Queensland, Australia). <i>Mineralium Deposita</i> , 2010, 45, 599-620.	1.7	15
60	High primary productivity and nitrogen cycling after the Paleoproterozoic phosphogenic event in the Aravalli Supergroup, India. <i>Precambrian Research</i> , 2009, 171, 37-56.	1.2	76
61	Marinoan meltdown. <i>Nature Geoscience</i> , 2008, 1, 351-353.	5.4	7
62	Mid- to Late Holocene sea-level variability in eastern Australia. <i>Terra Nova</i> , 2008, 20, 74-81.	0.9	111
63	Compilation and time-series analysis of a marine carbonate $\delta^{18}\text{O}$, $\delta^{13}\text{C}$, $87\text{Sr}/86\text{Sr}$ and $\delta^{34}\text{S}$ database through Earth history. <i>Earth-Science Reviews</i> , 2008, 87, 113-133.	4.0	401
64	The SPICE carbon isotope excursion in Siberia: a combined study of the upper Middle Cambrian to lowermost Ordovician Kulumbe River section, northwestern Siberian Platform. <i>Geological Magazine</i> , 2008, 145, 609-622.	0.9	98
65	A multi-trace element coral record of land-use changes in the Burdekin River catchment, NE Australia. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 246, 471-487.	1.0	122
66	Trace element chemostratigraphy of two Ediacaran to Cambrian successions in South China: Implications for organosedimentary metal enrichment and silicification in the Early Cambrian. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 254, 194-216.	1.0	181
67	C-, O- and Sr-isotope stratigraphy across the Lower to Middle Cambrian transition of the Cantabrian Zone (Spain) and the Montagne Noire (France), West Gondwana. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2007, 256, 47-70.	1.0	54
68	Barite-bearing cap dolostones of the Taoudeni Basin, northwest Africa: Sedimentary and isotopic evidence for methane seepage after a Neoproterozoic glaciation. <i>Precambrian Research</i> , 2007, 153, 209-235.	1.2	110
69	Neoproterozoic glaciomarine and cap dolostone facies of the southwestern Taoudeni Basin (Walidiala Valley, Senegal/Guinea, NW Africa). <i>Comptes Rendus - Geoscience</i> , 2007, 339, 186-199.	0.4	39
70	Evidence for hot early oceans?. <i>Nature</i> , 2007, 447, E1-E1.	13.7	37
71	The oxygen isotope evolution of seawater: A critical review of a long-standing controversy and an improved geological water cycle model for the past 3.4 billion years. <i>Earth-Science Reviews</i> , 2007, 83, 83-122.	4.0	295
72	Paleoclimates, ocean depth, and the oxygen isotopic composition of seawater. <i>Earth and Planetary Science Letters</i> , 2006, 252, 82-93.	1.8	205

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73	Insights from stable S and O isotopes into biogeochemical processes and genesis of Lower Cambrian barite "pyrite concretions of South China. <i>Organic Geochemistry</i> , 2006, 37, 1278-1288.	0.9	23
74	A major sulphur isotope event at c. 510 Ma: a possible anoxia-extinction-volcanism connection during the Early-Middle Cambrian transition?. <i>Terra Nova</i> , 2006, 18, 257-263.	0.9	87
75	Snowball Earth is dead! Long live Snowball Earth!. <i>Episodes</i> , 2006, 29, 287-288.	0.8	6
76	Neoproterozoic cap carbonates: a critical appraisal of existing models and the plumeworld hypothesis. <i>Terra Nova</i> , 2005, 17, 299-310.	0.9	240
77	Has the REE composition of seawater changed over geological time?. <i>Chemical Geology</i> , 2004, 204, 103-107.	1.4	239
78	Sulphur isotopic evolution of Neoproterozoic-Cambrian seawater: new francolite-bound sulphate $\delta^{34}\text{S}$ data and a critical appraisal of the existing record. <i>Chemical Geology</i> , 2004, 204, 163-182.	1.4	78
79	Sr, C, and O isotope geochemistry of Ordovician brachiopods: a major isotopic event around the Middle-Late Ordovician transition. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2005-2025.	1.6	207
80	Thermodynamic stability of waste glasses compared to leaching behaviour. <i>Applied Geochemistry</i> , 2003, 18, 1165-1184.	1.4	31
81	Factors contributing to high $\delta^{13}\text{C}$ values in Cryogenian limestones of western Mongolia. <i>Earth and Planetary Science Letters</i> , 2002, 196, 99-111.	1.8	46
82	Precambrian marine carbonate isotope database: Version 1.1. <i>Geochemistry, Geophysics, Geosystems</i> , 2002, 3, 1 of 12-12 of 12.	1.0	372
83	'Molar-tooth microspar': a chemical explanation for its disappearance at 750 Ma. <i>Terra Nova</i> , 2002, 14, 108-113.	0.9	58
84	High-resolution strontium isotope stratigraphy across the Cambrian-Ordovician transition. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2273-2292.	1.6	41
85	Diagenetic constraints on the use of cerium anomalies as palaeoseawater redox proxies: an isotopic and REE study of Cambrian phosphorites. <i>Chemical Geology</i> , 2001, 175, 29-48.	1.4	542
86	The use of external micro-PIXE to investigate the factors determining the Sr:Ca ratio in the shells of fossil aragonitic molluscs. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2001, 181, 506-510.	0.6	7
87	Precambrian-Cambrian transition: Death Valley, United States: Comment and Reply. <i>Geology</i> , 2000, 28, 958.	2.0	2
88	Neoproterozoic chemostratigraphy and correlation of the Port Askaig glaciation, Dalradian Supergroup of Scotland. <i>Journal of the Geological Society</i> , 2000, 157, 909-914.	0.9	120
89	New U-Pb zircon dates for the Neoproterozoic Ghubrah glaciation and for the top of the Huqf Supergroup, Oman. <i>Geology</i> , 2000, 28, 175.	2.0	180
90	Variations in $^{87}\text{Sr}/^{86}\text{Sr}$ ratios of calcites in Chinese loess: a proxy for chemical weathering associated with the East Asian summer monsoon. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2000, 157, 151-159.	1.0	75

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91	New U-Pb zircon dates for the Neoproterozoic Ghubrah glaciation and for the top of the Huqf Supergroup, Oman. <i>Geology</i> , 2000, 28, 175-178.	2.0	6
92	Precambrian-Cambrian transition: Death Valley, United States: Comment and Reply. <i>Geology</i> , 2000, 28, 958-959.	2.0	1
93	ISOTOPIC RECORDS ACROSS TWO PHOSPHORITE GIANT EPISODES COMPARED: THE PRECAMBRIAN-CAMBRIAN AND THE LATE CRETACEOUS-RECENT. , 2000, , 103-115.		15
94	Sulphur isotope compositions of sedimentary phosphorites from the basal Cambrian of China: implications for Neoproterozoic-Cambrian biogeochemical cycling. <i>Journal of the Geological Society</i> , 1999, 156, 943-955.	0.9	68
95	Metabolism controls Sr/Ca ratios in fossil aragonitic mollusks. <i>Geology</i> , 1999, 27, 1083.	2.0	78
96	Ediacarian sponge spicule clusters from southwestern Mongolia and the origins of the Cambrian fauna. <i>Geology</i> , 1997, 25, 303.	2.0	180
97	Stratified oceans and oxygenation of the late Precambrian environment: a post glacial geochemical record from the Neoproterozoic of W. Mongolia. <i>Terra Nova</i> , 1997, 9, 218-222.	0.9	66
98	The Monterey Event in the Mediterranean: A record from shelf sediments of Malta. <i>Paleoceanography</i> , 1996, 11, 717-728.	3.0	57
99	Glacial facies associations in a Neoproterozoic back-arc setting, Zavkhan Basin, western Mongolia. <i>Geological Magazine</i> , 1996, 133, 391-402.	0.9	35
100	Integrated chemo- and biostratigraphic calibration of early animal evolution: Neoproterozoic-early Cambrian of southwest Mongolia. <i>Geological Magazine</i> , 1996, 133, 445-485.	0.9	275
101	The Ediacaran -Miaohe Member- of South China: new insights from palaeoredox proxies and stable isotope data. <i>Geological Magazine</i> , 0, , 1-15.	0.9	3