Benjamin C Gill

List of Publications by Year
in descending order

89 papers	6,551 citations	87888 38 h-index	98798 67 g-index
91 all docs	91 docs citations	91 times ranked	3893 citing authors

#	Article	IF	Citations
1	Statistical analysis of iron geochemical data suggests limited late Proterozoic oxygenation. Nature, 2015, 523, 451-454.	27.8	484
2	Proterozoic ocean redox and biogeochemical stasis. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 5357-5362.	7.1	418
3	Evolution of the global phosphorus cycle. Nature, 2017, 541, 386-389.	27.8	397
4	Geochemical evidence for widespread euxinia in the Later Cambrian ocean. Nature, 2011, 469, 80-83.	27.8	354
5	Devonian rise in atmospheric oxygen correlated to the radiations of terrestrial plants and large predatory fish. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 17911-17915.	7.1	340
6	Large-scale fluctuations in Precambrian atmospheric and oceanic oxygen levels from the record of U in shales. Earth and Planetary Science Letters, 2013, 369-370, 284-293.	4.4	309
7	Tracking Euxinia in the Ancient Ocean: A Multiproxy Perspective and Proterozoic Case Study. Annual Review of Earth and Planetary Sciences, 2009, 37, 507-534.	11.0	308
8	Perspectives on Proterozoic surface ocean redox from iodine contents in ancient and recent carbonate. Earth and Planetary Science Letters, 2017, 463, 159-170.	4.4	172
9	Parallel, high-resolution carbon and sulfur isotope records of the evolving Paleozoic marine sulfur reservoir. Palaeogeography, Palaeoclimatology, Palaeoecology, 2007, 256, 156-173.	2.3	169
10	Uncovering the Neoproterozoic carbon cycle. Nature, 2012, 483, 320-323.	27.8	155
11	Terrestrial sources as the primary delivery mechanism of mercury to the oceans across the Toarcian Oceanic Anoxic Event (Early Jurassic). Earth and Planetary Science Letters, 2019, 507, 62-72.	4.4	146
12	Does pyrite act as an important host for molybdenum in modern and ancient euxinic sediments?. Geochimica Et Cosmochimica Acta, 2014, 126, 112-122.	3.9	143
13	Pulse of atmospheric oxygen during the late Cambrian. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3876-3881.	7.1	142
14	Trace elements at the intersection of marine biological and geochemical evolution. Earth-Science Reviews, 2016, 163, 323-348.	9.1	135
15	Uranium isotopes distinguish two geochemically distinct stages during the later Cambrian SPICE event. Earth and Planetary Science Letters, 2014, 401, 313-326.	4.4	134
16	High-resolution carbon isotope records of the Toarcian Oceanic Anoxic Event (Early Jurassic) from North America and implications for the global drivers of the Toarcian carbon cycle. Earth and Planetary Science Letters, 2017, 459, 118-126.	4.4	129
17	Sulfur isotopes track the global extent and dynamics of euxinia during Cretaceous Oceanic Anoxic Event 2. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 18407-18412.	7.1	127
18	Behavior of carbonate-associated sulfate during meteoric diagenesis and implications for the sulfur isotope paleoproxy. Geochimica Et Cosmochimica Acta, 2008, 72, 4699-4711.	3.9	123

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19	A global perturbation to the sulfur cycle during the Toarcian Oceanic Anoxic Event. Earth and Planetary Science Letters, 2011, 312, 484-496.	4.4	122
20	Sedimentary host phases of mercury (Hg) and implications for use of Hg as a volcanic proxy. Earth and Planetary Science Letters, 2020, 543, 116333.	4.4	118
21	Late inception of a resiliently oxygenated upper ocean. Science, 2018, 361, 174-177.	12.6	117
22	Thallium isotopes reveal protracted anoxia during the Toarcian (Early Jurassic) associated with volcanism, carbon burial, and mass extinction. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 6596-6601.	7.1	113
23	Diagenetic effects on uranium isotope fractionation in carbonate sediments from the Bahamas. Geochimica Et Cosmochimica Acta, 2018, 237, 294-311.	3.9	103
24	Evidence for rapid weathering response to climatic warming during the Toarcian Oceanic Anoxic Event. Scientific Reports, 2017, 7, 5003.	3.3	102
25	Interactions between Ediacaran animals and microbial mats: Insights from Lamonte trevallis, a new trace fossil from the Dengying Formation of South China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 396, 62-74.	2.3	96
26	Ancient Sulfur Cycling and Oxygenation of the Early Biosphere. Elements, 2010, 6, 93-99.	0.5	92
27	Plate tectonic influences on Neoproterozoicâ€“early Paleozoic climate and animal evolution. Geology, 2014, 42, 127-130.	4.4	86
28	Placing an upper limit on cryptic marine sulphur cycling. Nature, 2014, 513, 530-533.	27.8	86
29	Bioavailability of zinc in marine systems through time. Nature Geoscience, 2013, 6, 125-128.	12.9	84
30	Selenium as paleo-oceanographic proxy: A first assessment. Geochimica Et Cosmochimica Acta, 2012, 89, 302-317.	3.9	80
31	Chromium isotope fractionation during subduction-related metamorphism, black shale weathering, and hydrothermal alteration. Chemical Geology, 2016, 423, 19-33.	3.3	77
32	Atmosphereâ€“ocean oxygen and productivity dynamics during early animal radiations. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 19352-19361.	7.1	72
33	Tracking the rise of eukaryotes to ecological dominance with zinc isotopes. Geobiology, 2018, 16, 341-352.	2.4	65
34	Geochemical evidence for active tropical serpentinization in the Santa Elena Ophiolite, Costa Rica: An analog of a humid early Earth?. Geochemistry, Geophysics, Geosystems, 2014, 15, 1783-1800.	2.5	64
35	An evaluation of sedimentary molybdenum and iron as proxies for pore fluid paleoredox conditions. Numerische Mathematik, 2018, 318, 527-556.	1.4	63
36	Molybdenumâ€isotope chemostratigraphy and paleoceanography of the Toarcian Oceanic Anoxic Event (Early Jurassic). Paleoceanography, 2017, 32, 813-829.	3.0	59

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37	Middleâ€“Late Ordovician (Darriwilianâ€“Sandbian) decoupling of global sulfur and carbon cycles: Isotopic evidence from eastern and southern Laurentia. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 458, 118-132.	2.3	52
38	Reorganisation of Earthâ€™s biogeochemical cycles brieï¬,y oxygenated the oceans 520 Myr ago. Geochemical Perspectives Letters, 2017, , 210-220.	5.0	50
39	Depositional and diagenetic controls on deeply-buried Eocene sublacustrine fan reservoirs in the Dongying Depression, Bohai Bay Basin, China. Marine and Petroleum Geology, 2017, 82, 297-317.	3.3	39
40	Geochemical evidence for euxinia during the Late Devonian extinction events in the Michigan Basin (U.S.A.). Palaeogeography, Palaeoclimatology, Palaeoecology, 2014, 414, 146-154.	2.3	38
41	The effects of diagenesis on lithium isotope ratios of shallow marine carbonates. Numerische Mathematik, 2020, 320, 150-184.	1.4	37
42	Elucidating the relationship between the later Cambrian end-Marjuman extinctions and SPICE Event. Palaeogeography, Palaeoclimatology, Palaeoecology, 2016, 461, 362-373.	2.3	34
43	Stable carbon isotopes of sedimentary kerogens and carbonaceous macrofossils from the Ediacaran Miaohe Member in South China: Implications for stratigraphic correlation and sources of sedimentary organic carbon. Precambrian Research, 2017, 302, 171-179.	2.7	34
44	Coupled evolution of nitrogen cycling and redoxcline dynamics on the Yangtze Block across the Ediacaran-Cambrian transition. Geochimica Et Cosmochimica Acta, 2019, 257, 243-265.	3.9	34
45	Sulphur and carbon cycling in the subduction zone mÃ©lange. Scientific Reports, 2018, 8, 15517.	3.3	33
46	A long-term record of early to mid-Paleozoic marine redox change. Science Advances, 2021, 7, .	10.3	33
47	Evidence for the development of local anoxia during the Cambrian <scp>SPICE</scp> event in eastern North America. Geobiology, 2019, 17, 381-400.	2.4	29
48	Sulfur and carbon geochemistry of the Santa Elena peridotites: Comparing oceanic and continental processes during peridotite alteration. Lithos, 2016, 252-253, 92-108.	1.4	28
49	Variable redox conditions as an evolutionary driver? A multi-basin comparison of redox in the middle and later Cambrian oceans (Drumian-Paibian). Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 566, 110209.	2.3	28
50	A geochemical study of the Ediacaran discoidal fossil Aspidella preserved in limestones: Implications for its taphonomy and paleoecology. Geobiology, 2017, 15, 572-587.	2.4	27
51	The Sedimentary Geochemistry and Paleoenvironments Project. Geobiology, 2021, 19, 545-556.	2.4	26
52	Redox dynamics of later Cambrian oceans. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 581, 110623.	2.3	23
53	Fluid flow and related diagenetic processes in a rift basin: Evidence from the fourth member of the Eocene Shahejie Formation interval, Dongying depression, Bohai Bay Basin, China. AAPG Bulletin, 2016, 100, 1633-1662.	1.5	22
54	Development of carbonate-associated phosphate (CAP) as a proxy for reconstructing ancient ocean phosphate levels. Geochimica Et Cosmochimica Acta, 2021, 301, 48-69.	3.9	22

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55	Raman geothermometry of carbonaceous material in the basal Ediacaran Doushantuo cap dolostone: The thermal history of extremely negative Î´13C signatures in the aftermath of the terminal Cryogenian snowball Earth glaciation. Precambrian Research, 2017, 298, 174-186.	2.7	21
56	A new Early Jurassic (ca. 183 Ma) fossilLagerstÃttefrom Ya Ha Tinda, Alberta, Canada. Geology, 2017, 45, 255-258.	4.4	19
57	Scarcity of the C30 sterane biomarker, 24-n-propylcholestane, in Lower Paleozoic marine paleoenvironments. Organic Geochemistry, 2015, 80, 1-7.	1.8	18
58	The Road River Group of northern Yukon, Canada: early Paleozoic deep-water sedimentation within the Great American Carbonate Bank. Canadian Journal of Earth Sciences, 2020, 57, 1193-1219.	1.3	17
59	Geochemical Records Reveal Protracted and Differential Marine Redox Change Associated With Late Ordovician Climate and Mass Extinctions. AGU Advances, 2022, 3, .	5.4	17
60	Unraveling multiple phases of sulfur cycling during the alteration of ancient ultramafic oceanic lithosphere. Geochimica Et Cosmochimica Acta, 2018, 223, 279-299.	3.9	15
61	Geobiology of a lower Cambrian carbonate platform, Pedroche Formation, Ossa Morena Zone, Spain. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 386, 459-478.	2.3	14
62	Assessing the Contributions of Comet Impact and Volcanism Toward the Climate Perturbations of the Paleoceneâ€Eocene Thermal Maximum. Geophysical Research Letters, 2019, 46, 14798-14806.	4.0	13
63	New evidence for a long Rhaetian from a Panthalassan succession (Wrangell Mountains, Alaska) and regional differences in carbon cycle perturbations at the Triassic-Jurassic transition. Earth and Planetary Science Letters, 2022, 577, 117262.	4.4	13
64	Hydrothermal influence on barite precipitates in the basal Ediacaran Sete Lagoas cap dolostone, SÃ£o Francisco Craton, central Brazil. Precambrian Research, 2020, 340, 105628.	2.7	12
65	Orbitally driven redox fluctuations during Cretaceous Oceanic Anoxic Event 2 (OAE2) revealed by a new magnetic proxy. Palaeogeography, Palaeoclimatology, Palaeoecology, 2020, 538, 109465.	2.3	10
66	Stratigraphic evidence of two historical tsunamis on the semi-arid coast of north-central Chile. Quaternary Science Reviews, 2021, 266, 107052.	3.0	6
67	The worm turned, and the ocean followed. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 8081-8082.	7.1	1
68	THE REDOX FRAMEWORK OF PRECAMBRIAN-CAMBRIAN TRANSITION IN THE ARCTIC SIBERIA. , 2020, , .		1
69	Reply to Butterfield: The Devonian radiation of large predatory fish coincided with elevated atmospheric oxygen levels. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, E29-E29.	7.1	0
70	Sulfide and Methane Drivers of Ecosystem Dynamics in Cold-Seep Settings: A Novel Geochemical Proxy Approach to Constraining Their Cycling and Availability. The Paleontological Society Special Publications, 2014, 13, 75-75.	0.0	0
71	EVOLUTIONARY AND ECOLOGICAL DYNAMICS OF MACROBENTHIC COMMUNITIES ACROSS THE TOARCIAN OCEANIC ANOXIC EVENT IN NORTHEAST PANTHALASSA (YA HA TINDA, ALBERTA, CANADA). , 2016, , .		0
72	THE STEPWISE EVOLUTION OF MARINE DE-OXYGENATION DURING A CRETACEOUS OAE2. , 2016, , .		0

#	Article	IF	Citations
73	GEOCHEMICAL EVIDENCE FOR PERSISTENT ANOXIA IN EASTERN PANTHALASSA DURING THE EARLY JURASSIC. , 2016, , .		0
74	REEXAMINING THE CARBON CYCLE DURING THE TOARCIAN OCEANIC ANOXIC EVENT. , 2016, , .		0
75	A THALLIUM ISOTOPIC RECORD OF THE CAMBRIAN SPICE EVENT FROM THE ALUM SHALE, ANDRARUM, SWEDEN. , 2017, , .		0
76	INVESTIGATING A UNIQUE OPEN OCEAN GEOCHEMICAL RECORD OF THE END TRIASSIC MASS EXTINCTION FROM PANTHALASSA. , 2017, , .		0
77	DECIPHERING THE RECORD OF BIOLOGIC AND ENVIRONMENTAL CHANGE DURING THE LATER CAMBRIAN STEPTOEAN POSITIVE CARBON ISOTOPE EXCURSION. , 2017, , .		0
78	ARE OAES ACTUALLY CBES? EVIDENCE OF MARINE ANOXIA THROUGH THE EYES OF A NOVEL METAL ISOTOPE. , 2018, , .		0
79	INVESTIGATING REDOX CONDITIONS AND MECHANISMS FOR THE END ORDOVICIAN (HIRNANTIAN) MASS EXTINCTION: A WESTERN LAURENTIA PERSPECTIVE. , 2018, , .		0
80	EVALUATING ORGANIC MATTER SULFURIZATION AS A MECHANISM OF ENHANCED BURIAL OF REDUCED CARBON AND SULFUR ACROSS THE TOARCIAN OCEANIC ANOXIC EVENT. , 2019, , .		0
81	INVESTIGATING THE DEVELOPMENT OF ANOXIA WITHIN THE EUROPEAN EPICONTINENTAL SEAWAY DURING THE TOARCIAN OCEANIC ANOXIC EVENT (T-OAE). , 2019, , .		0
82	EVALUATING ORGANIC MATTER SULFURIZATION AS A MECHANISM OF ENHANCED BURIAL OF REDUCED CARBON AND SULFUR ACROSS THE TOARCIAN OCEANIC ANOXIC EVENT. , 2019, , .		0
83	Corrigendum to â€œReorganisation of Earth's biogeochemical cycles briefly oxygenated the oceans 520 Myr agoâ€•by Dahl et al., 2017. Geochemical Perspectives Letters, 0, , 40-40.	5.0	0
84	EvaluaciÃ³n de la FormaciÃ³n ediacÃ¡rica de Doushantuo: mejora de la correlaciÃ³n estratigrÃ¡fica de las pizarras negras de Doushantuo superior a partir del contenido en mercurio. Estudios Geologicos, 2019, 75, 107.	0.2	0
85	THE POSSIBLE MESOPROTEROZOIC OXYGEN OASIS OF THE ARCTIC SIBERIA. , 2020, , .		0
86	EVALUATING CARBON ISOTOPE AND REDOX RECORDS OF POLAR ENVIRONMENTAL CHANGE DURING THE EARLY JURASSIC. , 2020, , .		0
87	AN EXCEPTIONAL RECORD OF EARLY TO MID-PALEOZOIC REDOX CHANGE FROM THE ROAD RIVER GROUP, YUKON, CANADA. , 2020, , .		0
88	Organic Matter Sulfurization as a Mechanism of Enhanced Burial of Reduced Carbon and Sulfur Across the Toarcian Oceanic Anoxic Event. , 2020, , .		0
89	GEOCHEMICAL EVIDENCE FOR DYNAMIC MARINE REDOX CONDITIONS THROUGHOUT THE LATE ORDOVICIAN (HIRNANTIAN) MASS EXTINCTION. , 2020, , .		0