

Benjamin Brunner

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

2,721
citations

186265
28
h-index

214800
47
g-index

47
all docs

47
docs citations

47
times ranked

2771
citing authors

#	ARTICLE	IF	CITATIONS
1	A revised isotope fractionation model for dissimilatory sulfate reduction in sulfate reducing bacteria. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4759-4771.	3.9	356
2	A model for oxygen and sulfur isotope fractionation in sulfate during bacterial sulfate reduction processes. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4773-4785.	3.9	227
3	Nitrogen isotope effects induced by anammox bacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 18994-18999.	7.1	174
4	Carbon isotope equilibration during sulphate-limited anaerobic oxidation of methane. <i>Nature Geoscience</i> , 2014, 7, 190-194.	12.9	147
5	Oxygen isotope biogeochemistry of pore water sulfate in the deep biosphere: Dominance of isotope exchange reactions with ambient water during microbial sulfate reduction (ODP Site 1130). <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 4221-4232.	3.9	121
6	Bacterial formation of phosphatic laminites off Peru. <i>Geobiology</i> , 2009, 7, 295-307.	2.4	116
7	Substantial ¹³ C/ ¹² C and D/H fractionation during anaerobic oxidation of methane by marine consortia enriched <i>in vitro</i> . <i>Environmental Microbiology Reports</i> , 2009, 1, 370-376.	2.4	111
8	Carbon and sulfur back flux during anaerobic microbial oxidation of methane and coupled sulfate reduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, E1484-90.	7.1	104
9	Sulfur and oxygen isotope fractionation during sulfate reduction coupled to anaerobic oxidation of methane is dependent on methane concentration. <i>Earth and Planetary Science Letters</i> , 2014, 399, 61-73.	4.4	92
10	Kinetic oxygen isotope effects during dissimilatory sulfate reduction: A combined theoretical and experimental approach. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2011-2024.	3.9	89
11	Diagenetic formation of gypsum and dolomite in a cold-water coral mound in the Porcupine Seabight, off Ireland. <i>Sedimentology</i> , 2010, 57, 786-805.	3.1	70
12	Sulfur Cycling in an Iron Oxide-Dominated, Dynamic Marine Depositional System: The Argentine Continental Margin. <i>Frontiers in Earth Science</i> , 2017, 5, .	1.8	70
13	Phosphate oxygen isotopes: Insights into sedimentary phosphorus cycling from the Benguela upwelling system. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3741-3756.	3.9	68
14	The reversibility of dissimilatory sulphate reduction and the cell-internal multi-step reduction of sulphite to sulphide: insights from the oxygen isotope composition of sulphate. <i>Isotopes in Environmental and Health Studies</i> , 2012, 48, 33-54.	1.0	65
15	Post-glacial microbialite formation in coral reefs of the Pacific, Atlantic, and Indian Oceans. <i>Chemical Geology</i> , 2012, 304-305, 117-130.	3.3	65
16	Sulfur isotope fractionation during growth of sulfate-reducing bacteria on various carbon sources. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 4891-4904.	3.9	59
17	Formation of secondary carbonates and native sulphur in sulphate-rich Messinian strata, Sicily. <i>Sedimentary Geology</i> , 2010, 227, 37-50.	2.1	57
18	Different isotope and chemical patterns of pyrite oxidation related to lag and exponential growth phases of <i>Acidithiobacillus ferrooxidans</i> reveal a microbial growth strategy. <i>Earth and Planetary Science Letters</i> , 2008, 270, 63-72.	4.4	55

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19	The oxygen isotope equilibrium fractionation between sulfite species and water. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 562-581.	3.9	41
20	Authigenesis of native sulphur and dolomite in a lacustrine evaporitic setting (HellÅn basin, Late Tj ETQq0 0 0 rgBT /Overlock, 10 Tf 50 7	1.5	38
21	The evolution of early diagenetic signals in Bering Sea subseafloor sediments in response to varying organic carbon deposition over the last 4.3Ma. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 109, 175-196.	3.9	37
22	Microbially mediated re-oxidation of sulfide during dissimilatory sulfate reduction by <i>Desulfobacter latus</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 3469-3485.	3.9	36
23	The oxygen isotope composition of phosphate released from phytic acid by the activity of wheat and <i>Aspergillus niger</i> ; phytase. <i>Biogeosciences</i> , 2015, 12, 4175-4184.	3.3	35
24	Oxidative sulfur cycling in the deep biosphere of the Nankai Trough, Japan. <i>Geology</i> , 2010, 38, 851-854.	4.4	33
25	Iron-controlled oxidative sulfur cycling recorded in the distribution and isotopic composition of sulfur species in glacially influenced fjord sediments of west Svalbard. <i>Chemical Geology</i> , 2017, 466, 678-695.	3.3	33
26	Characteristics and Evolution of sill-driven off-axis hydrothermalism in Guaymas Basin â€“ the Ringvent site. <i>Scientific Reports</i> , 2019, 9, 13847.	3.3	33
27	The imprint of methane seepage on the geochemical record and early diagenetic processes in cold-water coral mounds on Pen Duick Escarpment, Gulf of Cadiz. <i>Marine Geology</i> , 2011, 282, 118-137.	2.1	31
28	The influence of bacterial activity on phosphorite formation in the Miocene Monterey Formation, California. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2012, 317-318, 171-181.	2.3	31
29	Cryptic biostalactites in a submerged karst cave of the Belize Barrier Reef revisited: Pendant bioconstructions cemented by microbial micrite. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2017, 468, 34-51.	2.3	28
30	Formation of Large Native Sulfur Deposits Does Not Require Molecular Oxygen. <i>Frontiers in Microbiology</i> , 2019, 10, 24.	3.5	27
31	Off Limits: Sulfate below the Sulfate-Methane Transition. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	25
32	Measurement of Sulfur Isotope Compositions by Tunable Laser Spectroscopy of SO ₂ . <i>Analytical Chemistry</i> , 2007, 79, 9261-9268.	6.5	24
33	Isotopic evidence of the pivotal role of sulfite oxidation in shaping the oxygen isotope signature of sulfate. <i>Chemical Geology</i> , 2013, 354, 186-202.	3.3	24
34	Methane at the sedimentâ€“water transition in Black Sea sediments. <i>Chemical Geology</i> , 2010, 274, 29-37.	3.3	22
35	Unique authigenic mineral assemblages reveal different diagenetic histories in two neighbouring coldâ€“water coral mounds on Pen Duick Escarpment, Gulf of Cadiz. <i>Sedimentology</i> , 2012, 59, 578-604.	3.1	22
36	Modern applications for a total sulfur reduction distillation method - whatâ€™s old is new again. <i>Geochemical Transactions</i> , 2014, 15, 4.	0.7	21

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37	Marine sediment pore-water profiles of phosphate d18O using a refined micro-extraction. <i>Limnology and Oceanography: Methods</i> , 2011, 9, 110-120.	2.0	19
38	Sulphur and carbon isotopes as tracers of past sub-seafloor microbial activity. <i>Scientific Reports</i> , 2019, 9, 604.	3.3	19
39	Biologically Available Phosphorus in Biocrust-Dominated Soils of the Chihuahuan Desert. <i>Soil Systems</i> , 2018, 2, 56.	2.6	17
40	A Giant Underwater, Encrusted Stalactite from the Blue Hole, Lighthouse Reef, Belize, Revisited: a Complex History of Biologically Induced Carbonate Accretion Under Changing Meteoric and Marine Conditions. <i>Journal of Sedimentary Research</i> , 2017, 87, 1260-1284.	1.6	16
41	Tetrathionate and Elemental Sulfur Shape the Isotope Composition of Sulfate in Acid Mine Drainage. <i>Frontiers in Microbiology</i> , 2017, 8, 1564.	3.5	14
42	A novel authigenic magnetite source for sedimentary magnetization. <i>Geology</i> , 2021, 49, 360-365.	4.4	14
43	Assessing the application of trace metals as paleoproxies and a chemostratigraphic tool in carbonate systems: A case study from the "Mississippian Limestone" of the midcontinent, United States. <i>Marine and Petroleum Geology</i> , 2020, 112, 104061.	3.3	9
44	MICROBIALITE OCCURRENCE AND PATTERNS IN HOLOCENE REEFS OF BORA BORA, SOCIETY ISLANDS. <i>Palaios</i> , 2020, 35, 262-276.	1.3	7
45	Hydrocarbon seepage in the mid-Cretaceous greenhouse world: A new perspective from southern Tibet. <i>Global and Planetary Change</i> , 2022, 208, 103683.	3.5	7
46	Method for Simultaneous Oxygen and Hydrogen Isotope Analysis of Water of Crystallization in Hydrated Minerals. <i>Analytical Chemistry</i> , 2008, 80, 7084-7089.	6.5	6
47	Considerations in the application of machine learning to aqueous geochemistry: Origin of produced waters in the northern U.S. Gulf Coast Basin. <i>Applied Computing and Geosciences</i> , 2019, 3-4, 100012.	2.2	6