

# Alexander Bradley

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

4,401  
citations

236925

25  
h-index

265206

42  
g-index

47  
all docs

47  
docs citations

47  
times ranked

4833  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Serpentinite-Hosted Ecosystem: The Lost City Hydrothermal Field. <i>Science</i> , 2005, 307, 1428-1434.	12.6	1,037
2	Fossil steroids record the appearance of Demospongiae during the Cryogenian period. <i>Nature</i> , 2009, 457, 718-721.	27.8	611
3	Rethinking the Ancient Sulfur Cycle. <i>Annual Review of Earth and Planetary Sciences</i> , 2015, 43, 593-622.	11.0	320
4	Steroids, triterpenoids and molecular oxygen. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 951-968.	4.0	316
5	Influence of sulfate reduction rates on the Phanerozoic sulfur isotope record. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11244-11249.	7.1	279
6	Hopanoids as functional analogues of cholesterol in bacterial membranes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 11971-11976.	7.1	197
7	Proteorhodopsin photosystem gene expression enables photophosphorylation in a heterologous host. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 5590-5595.	7.1	165
8	Patterns of sulfur isotope fractionation during microbial sulfate reduction. <i>Geobiology</i> , 2016, 14, 91-101.	2.4	136
9	Revisiting the dissimilatory sulfate reduction pathway. <i>Geobiology</i> , 2011, 9, 446-457.	2.4	121
10	Stable carbon isotope fractionation between substrates and products of <i>Methanosarcina barkeri</i> . <i>Organic Geochemistry</i> , 2008, 39, 608-621.	1.8	105
11	Extraordinary <sup>13</sup> C enrichment of diether lipids at the Lost City Hydrothermal Field indicates a carbon-limited ecosystem. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 102-118.	3.9	100
12	Influence of subsurface biosphere on geochemical fluxes from diffuse hydrothermal fluids. <i>Nature Geoscience</i> , 2011, 4, 461-468.	12.9	100
13	Multiple origins of methane at the Lost City Hydrothermal Field. <i>Earth and Planetary Science Letters</i> , 2010, 297, 34-41.	4.4	91
14	Adenosylhopane: The first intermediate in hopanoid side chain biosynthesis. <i>Organic Geochemistry</i> , 2010, 41, 1075-1081.	1.8	79
15	Spatial and temporal variability of biomarkers and microbial diversity reveal metabolic and community flexibility in Streamer Biofilm Communities in the Lower Geyser Basin, Yellowstone National Park. <i>Geobiology</i> , 2013, 11, 549-569.	2.4	71
16	Organic carbon burial during OAE2 driven by changes in the locus of organic matter sulfurization. <i>Nature Communications</i> , 2018, 9, 3409.	12.8	62
17	Tubular compression fossils from the Ediacaran Nama group, Namibia. <i>Journal of Paleontology</i> , 2009, 83, 110-122.	0.8	57
18	Structural diversity of diether lipids in carbonate chimneys at the Lost City Hydrothermal Field. <i>Organic Geochemistry</i> , 2009, 40, 1169-1178.	1.8	54

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19	Archaeal and bacterial glycerol dialkyl glycerol tetraether lipids in chimneys of the Lost City Hydrothermal Field. <i>Organic Geochemistry</i> , 2013, 60, 45-53.	1.8	49
20	Endosymbiotic adaptations in three new bacterial species associated with <i>Dictyostelium discoideum</i> : <i>Paraburkholderia agricolaris</i> sp. nov., <i>Paraburkholderia hayleyella</i> sp. nov., and <i>Paraburkholderia bonniea</i> sp. nov. <i>PeerJ</i> , 2020, 8, e9151.	2.0	49
21	Determination and application of the equilibrium oxygen isotope effect between water and sulfite. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 125, 694-711.	3.9	47
22	Sulfur Isotope Effects of Dissimilatory Sulfite Reductase. <i>Frontiers in Microbiology</i> , 2015, 6, 1392.	3.5	47
23	Paired organic matter and pyrite $\delta^{34}\text{S}$ records reveal mechanisms of carbon, sulfur, and iron cycle disruption during Ocean Anoxic Event 2. <i>Earth and Planetary Science Letters</i> , 2019, 512, 27-38.	4.4	46
24	Silurian records of carbon and sulfur cycling from Estonia: The importance of depositional environment on isotopic trends. <i>Earth and Planetary Science Letters</i> , 2019, 512, 71-82.	4.4	38
25	Multiple sulfur isotope signatures of sulfite and thiosulfate reduction by the model dissimilatory sulfate-reducer, <i>Desulfovibrio alaskensis</i> str. G20. <i>Frontiers in Microbiology</i> , 2014, 5, 591.	3.5	26
26	Controls of extreme isotopic enrichment in modern microbialites and associated abiogenic carbonates. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 269, 136-149.	3.9	19
27	Hopanoid-free <i>Methylobacterium extorquens</i> DM4 overproduces carotenoids and has widespread growth impairment. <i>PLoS ONE</i> , 2017, 12, e0173323.	2.5	19
28	Sulfur isotope analysis of microcrystalline iron sulfides using secondary ion mass spectrometry imaging: Extracting local paleo-environmental information from modern and ancient sediments. <i>Rapid Communications in Mass Spectrometry</i> , 2019, 33, 491-502.	1.5	18
29	Fractionation of sulfur and hydrogen isotopes in <i>Desulfovibrio vulgaris</i> with perturbed DsrC expression. <i>FEMS Microbiology Letters</i> , 2016, 363, fnw226.	1.8	17
30	Oxygen isotope effects during microbial sulfate reduction: applications to sediment cell abundances. <i>ISME Journal</i> , 2020, 14, 1508-1519.	9.8	17
31	Transhydrogenase and Growth Substrate Influence Lipid Hydrogen Isotope Ratios in <i>Desulfovibrio alaskensis</i> G20. <i>Frontiers in Microbiology</i> , 2016, 07, 918.	3.5	16
32	Insights into past ocean proxies from micron-scale mapping of sulfur species in carbonates. <i>Geology</i> , 2019, 47, 833-837.	4.4	12
33	Statistical Uncertainty in Paleoclimate Proxy Reconstructions. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092773.	4.0	7
34	Effects of early marine diagenesis and site-specific depositional controls on carbonate-associated sulfate: Insights from paired S and O isotopic analyses. <i>Chemical Geology</i> , 2021, 584, 120525.	3.3	7
35	Expanding the Limits of Life. <i>Scientific American</i> , 2009, 301, 62-67.	1.0	6
36	Hydrogen isotope composition of <i>Thermoanaerobacterium saccharolyticum</i> lipids: Comparing wild type with a <i>nfn</i> - transhydrogenase mutant. <i>Organic Geochemistry</i> , 2017, 113, 239-241.	1.8	6

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37	Proteomic and Isotopic Response of <i>Desulfovibrio vulgaris</i> to DsrC Perturbation. <i>Frontiers in Microbiology</i> , 2019, 10, 658.	3.5	5
38	Direct Observation of the Dynamics of Single-Cell Metabolic Activity during Microbial Diauxic Growth. <i>MBio</i> , 2020, 11, .	4.1	5
39	The effect of water availability on the carbon and nitrogen isotope composition of a C4 plant (pearl) Tj ETQq1 1 0.784314 $\text{rg}_{\text{BT}}^{\text{BT}} / \text{Over}$	0.5	5
40	The Isotopic Imprint of Life on an Evolving Planet. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	3
41	Isotopic Fractionation Associated With Sulfate Import and Activation by <i>Desulfovibrio vulgaris</i> str. Hildenborough. <i>Frontiers in Microbiology</i> , 2020, 11, 529317.	3.5	2