

David A Fowle

List of Publications by Year in descending order

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55
papers

3,479
citations

159585

30
h-index

161849

54
g-index

59
all docs

59
docs citations

59
times ranked

3675
citing authors

#	ARTICLE	IF	CITATIONS
1	Sulfate was a trace constituent of Archean seawater. <i>Science</i> , 2014, 346, 735-739.	12.6	246
2	X-ray absorption fine structure determination of pH-dependent U-bacterial cell wall interactions. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 3855-3871.	3.9	243
3	Photoferrotrophs thrive in an Archean Ocean analogue. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 15938-15943.	7.1	229
4	Adsorption of cadmium to <i>Bacillus subtilis</i> bacterial cell walls: a pH-dependent X-ray absorption fine structure spectroscopy study. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3299-3311.	3.9	215
5	Surface chemistry allows for abiotic precipitation of dolomite at low temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 14540-14545.	7.1	185
6	The methane cycle in ferruginous Lake Matano. <i>Geobiology</i> , 2011, 9, 61-78.	2.4	159
7	Green rust formation controls nutrient availability in a ferruginous water column. <i>Geology</i> , 2012, 40, 599-602.	4.4	159
8	Experimental Study of Uranyl Adsorption onto <i>Bacillus subtilis</i> . <i>Environmental Science & Technology</i> , 2000, 34, 3737-3741.	10.0	145
9	The effect of growth phase on proton and metal adsorption by <i>Bacillus subtilis</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1025-1035.	3.9	135
10	Competitive adsorption of metal cations onto two gram positive bacteria: testing the chemical equilibrium model. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3059-3067.	3.9	134
11	Experimental measurements of the reversibility of metal-bacteria adsorption reactions. <i>Chemical Geology</i> , 2000, 168, 27-36.	3.3	117
12	The biogeochemistry of tropical lakes: A case study from Lake Matano, Indonesia. <i>Limnology and Oceanography</i> , 2008, 53, 319-331.	3.1	101
13	Methane monooxygenase gene expression mediated by methanobactin in the presence of mineral copper sources. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 12040-12045.	7.1	94
14	Increasing shallow groundwater CO ₂ and limestone weathering, Konza Prairie, USA. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5581-5599.	3.9	87
15	Ordered low-temperature dolomite mediated by carboxyl-group density of microbial cell walls. <i>AAPG Bulletin</i> , 2013, 97, 2113-2125.	1.5	83
16	Oxidative elemental cycling under the low O ₂ Eoarchean atmosphere. <i>Scientific Reports</i> , 2016, 6, 21058.	3.3	74
17	A Donnan potential model for metal sorption onto <i>Bacillus subtilis</i> . <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 3657-3664.	3.9	72
18	Adsorption and precipitation of iron from seawater on a marine bacteriophage (PWH3A-P1). <i>Marine Chemistry</i> , 2004, 91, 101-115.	2.3	62

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19	Sorption of Cadmium and Lead by Bacteria's Ferrihydrite Composites. <i>Geomicrobiology Journal</i> , 2005, 22, 299-310.	2.0	57
20	XAFS determination of the bacterial cell wall functional groups responsible for complexation of Cd and U as a function of pH. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 946-948.	2.4	52
21	Stable Isotopes Reveal Widespread Anaerobic Methane Oxidation Across Latitude and Peatland Type. <i>Environmental Science & Technology</i> , 2013, 47, 130717064455005.	10.0	52
22	Geochemical Modeling of ZnS in Biofilms: An Example of Ore Depositional Processes. <i>Economic Geology</i> , 2002, 97, 1319-1329.	3.8	51
23	Nonmetabolic Reduction of Cr(VI) by Bacterial Surfaces Under Nutrient-Absent Conditions. <i>Geomicrobiology Journal</i> , 2002, 19, 369-382.	2.0	47
24	Deep-water anoxygenic photosynthesis in a ferruginous chemocline. <i>Geobiology</i> , 2014, 12, 322-339.	2.4	47
25	Comparison of the Structures of the Metal-thiolate Binding Site in Zn(II)-, Cd(II)-, and Hg(II)-Metallothioneins Using Molecular Modeling Techniques. <i>Journal of Biomolecular Structure and Dynamics</i> , 1997, 14, 393-406.	3.5	37
26	Biogenic dissolution of a soil cerium-phosphate mineral. <i>Numerische Mathematik</i> , 2005, 305, 711-726.	1.4	36
27	Mixing and its effects on biogeochemistry in the persistently stratified, deep, tropical Lake Matano, Indonesia. <i>Limnology and Oceanography</i> , 2010, 55, 763-776.	3.1	36
28	Alteration of iron-rich lacustrine sediments by dissimilatory iron-reducing bacteria. <i>Geobiology</i> , 2006, 5, 061016061900003-???	2.4	35
29	Microbial Selenate Sorption and Reduction in Nutrient Limited Systems. <i>Environmental Science & Technology</i> , 2006, 40, 3782-3786.	10.0	33
30	Biogeochemistry of manganese in ferruginous Lake Matano, Indonesia. <i>Biogeosciences</i> , 2011, 8, 2977-2991.	3.3	33
31	Methanobactin-promoted dissolution of Cu-substituted borosilicate glass. <i>Geobiology</i> , 2007, 5, 251-263.	2.4	32
32	Experimental studies of bacteria's iodide adsorption interactions. <i>Chemical Geology</i> , 2004, 212, 229-238.	3.3	31
33	Paleoclimatic Applications and Modern Process Studies of Pedogenic Siderite. , 2013, , 79-87.		30
34	Attachment Behavior of <i>Shewanella putrefaciens</i> onto Magnetite under Aerobic and Anaerobic Conditions. <i>Geomicrobiology Journal</i> , 2006, 23, 631-640.	2.0	29
35	Room-temperature magnetic properties of ferrihydrite: A potential magnetic remanence carrier?. <i>Earth and Planetary Science Letters</i> , 2005, 236, 856-870.	4.4	27
36	Reductive Dissolution of Trace Metals from Sediments. <i>Geomicrobiology Journal</i> , 2007, 24, 157-165.	2.0	26

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37	Micromorphology and Stable-Isotope Geochemistry of Historical Pedogenic Siderite Formed in PAH-Contaminated Alluvial Clay Soils, Tennessee, U.S.A.. <i>Journal of Sedimentary Research</i> , 2010, 80, 943-954.	1.6	25
38	Shifting microbial communities sustain multiyear iron reduction and methanogenesis in ferruginous sediment incubations. <i>Geobiology</i> , 2017, 15, 678-689.	2.4	24
39	Phylogenetic and structural diversity of aromatically dense pili from environmental metagenomes. <i>Environmental Microbiology Reports</i> , 2020, 12, 49-57.	2.4	22
40	Quantifying the Effects of <i>Bacillus subtilis</i> Cell Walls on the Precipitation of Copper Hydroxide from Aqueous Solution. <i>Geomicrobiology Journal</i> , 2001, 18, 77-91.	2.0	21
41	Mixing and its effects on biogeochemistry in the persistently stratified, deep, tropical Lake Matano, Indonesia. <i>Limnology and Oceanography</i> , 2010, 55, 763-776.	3.1	20
42	Structure and reactivity of zinc sulfide precipitates formed in the presence of sulfate-reducing bacteria. <i>Applied Geochemistry</i> , 2011, 26, 1673-1680.	3.0	18
43	Structural model of rabbit liver copper metallothionein. <i>Journal of the Chemical Society Dalton Transactions</i> , 1997, , 977-984.	1.1	17
44	Stimulation of Methanotroph Activity by Cu-Substituted Borosilicate Glass. <i>Geomicrobiology Journal</i> , 2011, 28, 1-10.	2.0	17
45	Bacterially enhanced dissolution of meta-autunite. <i>American Mineralogist</i> , 2008, 93, 1858-1864.	1.9	15
46	Decrypting the sulfur cycle in oceanic oxygen minimum zones. <i>ISME Journal</i> , 2018, 12, 2322-2329.	9.8	14
47	Silicate Dissolution in Las Pailas Thermal Field: Implications for Microbial Weathering in Acidic Volcanic Hydrothermal Spring Systems. <i>Geomicrobiology Journal</i> , 2014, 31, 23-41.	2.0	12
48	Rates and pathways of CH ₄ oxidation in ferruginous Lake Matano, Indonesia. <i>Geobiology</i> , 2019, 17, 294-307.	2.4	9
49	Biogeochemical indicators of buried mineralization under cover, Talbot VMS Cu-Zn prospect, Manitoba. <i>Applied Geochemistry</i> , 2013, 37, 190-202.	3.0	8
50	Marinobacter bacteria associated with a massive sulphide ore deposit affect metal mobility in the deep subsurface. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2015, 15, 319-326.	0.9	6
51	Trace lead impacts biomineralization pathways during bacterial iron reduction. <i>Chemical Geology</i> , 2008, 249, 282-293.	3.3	5
52	Biogeochemical controls on metal mobility: modeling a Cu-Zn VMS deposit in column flow-through studies. <i>Geochemistry: Exploration, Environment, Analysis</i> , 2014, 14, 59-70.	0.9	5
53	Circular dichroism, emission, and exafs studies of Ag(I), Cd(II), Cu(I), and Hg(II) binding to metallothioneins and modeling the metal binding site. , 1999, , 23-35.		5
54	The evolution of geomicrobiology: perspectives from the mineral-bacteria interface. <i>Geobiology</i> , 2007, 5, 207-210.	2.4	1

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55	Microbial-Metal Binding. Encyclopedia of Earth Sciences Series, 2011, , 654-657.	0.1	0