David A Fowle

List of Publications by Year
in descending order

55	3,479	159585 30	161849 54
papers	citations	h-index	g-index

59	59	59	3675
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Phylogenetic and structural diversity of aromatically dense pili from environmental metagenomes. Environmental Microbiology Reports, 2020, 12, 49-57.	2.4	22
2	Rates and pathways of CH 4 oxidation in ferruginous Lake Matano, Indonesia. Geobiology, 2019, 17, 294-307.	2.4	9
3	Decrypting the sulfur cycle in oceanic oxygen minimum zones. ISME Journal, 2018, 12, 2322-2329.	9.8	14
4	Shifting microbial communities sustain multiyear iron reduction and methanogenesis in ferruginous sediment incubations. Geobiology, 2017, 15, 678-689.	2.4	24
5	Oxidative elemental cycling under the low O2 Eoarchean atmosphere. Scientific Reports, 2016, 6, 21058.	3.3	74
6	Marinobacterbacteria associated with a massive sulphide ore deposit affect metal mobility in the deep subsurface. Geochemistry: Exploration, Environment, Analysis, 2015, 15, 319-326.	0.9	6
7	Silicate Dissolution in Las Pailas Thermal Field: Implications for Microbial Weathering in Acidic Volcanic Hydrothermal Spring Systems. Geomicrobiology Journal, 2014, 31, 23-41.	2.0	12
8	Biogeochemical controls on metal mobility: modeling a Cu-Zn VMS deposit in column flow-through studies. Geochemistry: Exploration, Environment, Analysis, 2014, 14, 59-70.	0.9	5
9	Deepâ€water anoxygenic photosythesis in a ferruginous chemocline. Geobiology, 2014, 12, 322-339.	2.4	47
10	Sulfate was a trace constituent of Archean seawater. Science, 2014, 346, 735-739.	12.6	246
11	Biogeochemical indicators of buried mineralization under cover, Talbot VMS Cuâ€"Zn prospect, Manitoba. Applied Geochemistry, 2013, 37, 190-202.	3.0	8
12	Stable Isotopes Reveal Widespread Anaerobic Methane Oxidation Across Latitude and Peatland Type. Environmental Science & Technology, 2013, 47, 130717064455005.	10.0	52
13	Surface chemistry allows for abiotic precipitation of dolomite at low temperature. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 14540-14545.	7.1	185
14	Ordered low-temperature dolomite mediated by carboxyl-group density of microbial cell walls. AAPG Bulletin, 2013, 97, 2113-2125.	1.5	83
15	Paleoclimatic Applications and Modern Process Studies of Pedogenic Siderite. , 2013, , 79-87.		30
16	Green rust formation controls nutrient availability in a ferruginous water column. Geology, 2012, 40, 599-602.	4.4	159
17	Structure and reactivity of zinc sulfide precipitates formed in the presence of sulfate-reducing bacteria. Applied Geochemistry, 2011, 26, 1673-1680.	3.0	18
18	Biogeochemistry of manganese in ferruginous Lake Matano, Indonesia. Biogeosciences, 2011, 8, 2977-2991.	3.3	33

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19	The methane cycle in ferruginous Lake Matano. Geobiology, 2011, 9, 61-78.	2.4	159
20	Stimulation of Methanotroph Activity by Cu-Substituted Borosilicate Glass. Geomicrobiology Journal, 2011, 28, 1-10.	2.0	17
21	Microbial-Metal Binding. Encyclopedia of Earth Sciences Series, 2011, , 654-657.	0.1	0
22	Mixing and its effects on biogeochemistry in the persistently stratified, deep, tropical Lake Matano, Indonesia. Limnology and Oceanography, 2010, 55, 763-776.	3.1	36
23	Micromorphology and Stable-Isotope Geochemistry of Historical Pedogenic Siderite Formed in PAH-Contaminated Alluvial Clay Soils, Tennessee, U.S.A.. Journal of Sedimentary Research, 2010, 80, 943-954.	1.6	25
24	Mixing and its effects on biogeochemistry in the persistently stratified, deep, tropical Lake Matano, Indonesia. Limnology and Oceanography, 2010, 55, 763-776.	3.1	20
25	Increasing shallow groundwater CO2 and limestone weathering, Konza Prairie, USA. Geochimica Et Cosmochimica Acta, 2008, 72, 5581-5599.	3.9	87
26	Trace lead impacts biomineralization pathways during bacterial iron reduction. Chemical Geology, 2008, 249, 282-293.	3.3	5
27	Photoferrotrophs thrive in an Archean Ocean analogue. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 15938-15943.	7.1	229
28	Bacterially enhanced dissolution of meta-autunite. American Mineralogist, 2008, 93, 1858-1864.	1.9	15
29	The biogeochemistry of tropical lakes: A case study from Lake Matano, Indonesia. Limnology and Oceanography, 2008, 53, 319-331.	3.1	101
30	Methane monooxygenase gene expression mediated by methanobactin in the presence of mineral copper sources. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 12040-12045.	7.1	94
31	Reductive Dissolution of Trace Metals from Sediments. Geomicrobiology Journal, 2007, 24, 157-165.	2.0	26
32	Methanobactin-promoted dissolution of Cu-substituted borosilicate glass. Geobiology, 2007, 5, 251-263.	2.4	32
33	The evolution of geomicrobiology: perspectives from the mineralâ€“bacteria interface. Geobiology, 2007, 5, 207-210.	2.4	1
34	Attachment Behavior ofShewanella putrefaciensonto Magnetite under Aerobic and Anaerobic Conditions. Geomicrobiology Journal, 2006, 23, 631-640.	2.0	29
35	Microbial Selenate Sorption and Reduction in Nutrient Limited Systems. Environmental Science & Technology, 2006, 40, 3782-3786.	10.0	33
36	Alteration of iron-rich lacustrine sediments by dissimilatory iron-reducing bacteria. Geobiology, 2006, 5, 061016061900003-???.	2.4	35

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37	Sorption of Cadmium and Lead by Bacteriaâ€"Ferrihydrite Composites. Geomicrobiology Journal, 2005, 22, 299-310.	2.0	57
38	Biogenic dissolution of a soil cerium-phosphate mineral. Numerische Mathematik, 2005, 305, 711-726.	1.4	36
39	Room-temperature magnetic properties of ferrihydrite: A potential magnetic remanence carrier?. Earth and Planetary Science Letters, 2005, 236, 856-870.	4.4	27
40	Adsorption and precipitation of iron from seawater on a marine bacteriophage (PWH3A-P1). Marine Chemistry, 2004, 91, 101-115.	2.3	62
41	Experimental studies of bacteriaâ€"iodide adsorption interactions. Chemical Geology, 2004, 212, 229-238.	3.3	31
42	A Donnan potential model for metal sorption onto Bacillus subtilis. Geochimica Et Cosmochimica Acta, 2004, 68, 3657-3664.	3.9	72
43	Adsorption of cadmium to Bacillus subtilis bacterial cell walls: a pH-dependent X-ray absorption fine structure spectroscopy study. Geochimica Et Cosmochimica Acta, 2003, 67, 3299-3311.	3.9	215
44	Nonmetabolic Reduction of Cr(VI) by Bacterial Surfaces Under Nutrient-Absent Conditions. Geomicrobiology Journal, 2002, 19, 369-382.	2.0	47
45	X-ray absorption fine structure determination of pH-dependent U-bacterial cell wall interactions. Geochimica Et Cosmochimica Acta, 2002, 66, 3855-3871.	3.9	243
46	Geochemical Modeling of ZnS in Biofilms: An Example of Ore Depositional Processes. Economic Geology, 2002, 97, 1319-1329.	3.8	51
47	The effect of growth phase on proton and metal adsorption by Bacillus subtilis. Geochimica Et Cosmochimica Acta, 2001, 65, 1025-1035.	3.9	135
48	Quantifying the Effects ofBacillus subtilisCell Walls on the Precipitation of Copper Hydroxide from Aqueous Solution. Geomicrobiology Journal, 2001, 18, 77-91.	2.0	21
49	XAFS determination of the bacterial cell wall functional groups responsible for complexation of Cd and U as a function of pH. Journal of Synchrotron Radiation, 2001, 8, 946-948.	2.4	52
50	Experimental measurements of the reversibility of metalâ€"bacteria adsorption reactions. Chemical Geology, 2000, 168, 27-36.	3.3	117
51	Experimental Study of Uranyl Adsorption ontoBacillus subtilis. Environmental Science & Technology, 2000, 34, 3737-3741.	10.0	145
52	Competitive adsorption of metal cations onto two gram positive bacteria: testing the chemical equilibrium model. Geochimica Et Cosmochimica Acta, 1999, 63, 3059-3067.	3.9	134
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	Structural model of rabbit liver copper metallothionein. Journal of the Chemical Society Dalton Transactions, 1997, , 977-984.	1.1	17

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55	Comparison of the Structures of the Metal-thiolate Binding Site in Zn(II)-, Cd(II)-, and Hg(II)-Metallothioneins Using Molecular Modeling Techniques. Journal of Biomolecular Structure and Dynamics, 1997, 14, 393-406.	3.5	37