

Sam M Webb

List of Publications by Year in descending order

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143
papers

10,818
citations

31976

53
h-index

31849

101
g-index

146
all docs

146
docs citations

146
times ranked

12075
citing authors

#	ARTICLE	IF	CITATIONS
1	Reexamination of 2.5-Ga $\delta^{66}\text{Ga}$ of oxygen interval points to anoxic ocean before GOE. <i>Science Advances</i> , 2022, 8, eabj7190.	10.3	42
2	X-ray Fluorescence Spectroscopy of Picrolite Raw Material on Cyprus. <i>Heritage</i> , 2022, 5, 664-677.	1.9	1
3	X-ray fluorescence microscopy methods for biological tissues. <i>Metallomics</i> , 2022, 14, .	2.4	19
4	Trace Impurities Identified as Forensic Signatures in CMX-5 Fuel Pellets Using X-ray Spectroscopic Techniques. <i>Analytical Chemistry</i> , 2022, 94, 7084-7091.	6.5	4
5	Synchrotron x-ray fluorescence analysis reveals diagenetic alteration of fossil melanosome trace metal chemistry. <i>Palaeontology</i> , 2021, 64, 63-73.	2.2	2
6	Iron Heterogeneity in Early Active Multiple Sclerosis Lesions. <i>Annals of Neurology</i> , 2021, 89, 498-510.	5.3	22
7	Microbial sulfate reduction and organic sulfur formation in sinking marine particles. <i>Science</i> , 2021, 371, 178-181.	12.6	64
8	Electrochemically induced metal- <i>vs.</i> ligand-based redox changes in mackinawite: identification of a Fe ³⁺ - and polysulfide-containing intermediate. <i>Dalton Transactions</i> , 2021, 50, 11763-11774.	3.3	6
9	Organic sulfur fluxes and geomorphic control of sulfur isotope ratios in rivers. <i>Earth and Planetary Science Letters</i> , 2021, 562, 116838.	4.4	9
10	Changing chemistry of particulate manganese in the near- and far-field hydrothermal plumes from 15°S East Pacific Rise and its influence on metal scavenging. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 95-118.	3.9	10
11	An ecophysiological explanation for manganese enrichment in rock varnish. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	19
12	Manganese oxides in Martian meteorites Northwest Africa (NWA) 7034 and 7533. <i>Icarus</i> , 2021, 364, 114471.	2.5	8
13	Rapid, Concurrent Formation of Organic Sulfur and Iron Sulfides During Experimental Sulfurization of Sinking Marine Particles. <i>Global Biogeochemical Cycles</i> , 2021, 35, e2021GB007062.	4.9	10
14	Brachiopod $\delta^{34}\text{S}$ microanalyses indicate a dynamic, climate-influenced Permo-Carboniferous sulfur cycle. <i>Earth and Planetary Science Letters</i> , 2020, 546, 116428.	4.4	11
15	Arsenolipids in Cultured <i>Picocystis</i> Strain ML and Their Occurrence in Biota and Sediment from Mono Lake, California. <i>Life</i> , 2020, 10, 93.	2.4	20
16	Reinforcement Learning for Adaptive Illumination with X-rays. , 2020, , .		6
17	Investigation of the effect of taurine supplementation on muscle taurine content in the mdx mouse model of Duchenne muscular dystrophy using chemically specific synchrotron imaging. <i>Analyst</i> , The, 2020, 145, 7242-7251.	3.5	7
18	Sample preparation with sucrose cryoprotection dramatically alters Zn distribution in the rodent hippocampus, as revealed by elemental mapping. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 2498-2508.	3.0	19

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19	Seasonal Zinc Storage and a Strategy for Its Use in Buds of Fruit Trees. <i>Plant Physiology</i> , 2020, 183, 1200-1212.	4.8	12
20	Robust framework and software implementation for fast speciation mapping. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 1049-1058.	2.4	9
21	Hierarchical biota-level and taxonomic controls on the chemistry of fossil melanosomes revealed using synchrotron X-ray fluorescence. <i>Scientific Reports</i> , 2020, 10, 8970.	3.3	9
22	Deposition of sulfate aerosols with positive $\delta^{33}\text{S}$ in the Neoproterozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 285, 1-20.	3.9	4
23	Sulfur isotope fractionation between aqueous and carbonate-associated sulfate in abiotic calcite and aragonite. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 280, 317-339.	3.9	28
24	Efficient phloem remobilization of Zn protects apple trees during the early stages of Zn deficiency. <i>Plant, Cell and Environment</i> , 2019, 42, 3167-3181.	5.7	18
25	Chemical and Isotopic Evidence for Organic Matter Sulfurization in Redox Gradients Around Mangrove Roots. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	15
26	Fate of cobalt and nickel in mackinawite during diagenetic pyrite formation. <i>American Mineralogist</i> , 2019, 104, 917-928.	1.9	16
27	The source of sulfate in brachiopod calcite: Insights from $\mu\text{-XRF}$ imaging and XANES spectroscopy. <i>Chemical Geology</i> , 2019, 529, 119328.	3.3	10
28	Synchrotron X-ray absorption spectroscopy of melanosomes in vertebrates and cephalopods: implications for the affinity of <i>Tullimonstrum</i> . <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019, 286, 20191649.	2.6	16
29	Tissue-specific geometry and chemistry of modern and fossilized melanosomes reveal internal anatomy of extinct vertebrates. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17880-17889.	7.1	32
30	Depositional and diagenetic constraints on the abundance and spatial variability of carbonate-associated sulfate. <i>Chemical Geology</i> , 2019, 523, 59-72.	3.3	23
31	Fe-bearing phases in modern lacustrine microbialites from Mexico. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 253, 201-230.	3.9	11
32	Insights Into the Mineralogy and Surface Chemistry of Extracellular Biogenic S_0 Globules Produced by <i>Chlorobaculum tepidum</i> . <i>Frontiers in Microbiology</i> , 2019, 10, 271.	3.5	29
33	Mid-Proterozoic Ferruginous Conditions Reflect Postdepositional Processes. <i>Geophysical Research Letters</i> , 2019, 46, 3114-3123.	4.0	7
34	Photons, Folios, and Fossils: The X-ray Imaging and Spectroscopy Program of Ancient Materials at SSRL. <i>Synchrotron Radiation News</i> , 2019, 32, 22-28.	0.8	4
35	Biogenesis of zinc storage granules in <i>Drosophila melanogaster</i> . <i>Journal of Experimental Biology</i> , 2018, 221, .	1.7	28
36	Periphyton and abiotic factors influencing arsenic speciation in aquatic environments. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 903-913.	4.3	9

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37	Insights into the Interconnection of the Electrodes and Electrolyte Species in Lithium Sulfur Batteries Using Spatially Resolved Operando X-ray Absorption Spectroscopy and X-ray Fluorescence Mapping. <i>Journal of Physical Chemistry C</i> , 2018, 122, 5303-5316.	3.1	10
38	From lapis lazuli to ultramarine blue: investigating Cennino Cennini's recipe using sulfur K-edge XANES. <i>Pure and Applied Chemistry</i> , 2018, 90, 463-475.	1.9	31
39	Molecular genetic and biochemical characterization of a putative family of zinc metalloproteins in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2018, 10, 1814-1823.	2.4	2
40	Coupled X-ray Fluorescence and X-ray Absorption Spectroscopy for Microscale Imaging and Identification of Sulfur Species within Tissues and Skeletons of Scleractinian Corals. <i>Analytical Chemistry</i> , 2018, 90, 12559-12566.	6.5	14
41	Redox Fluctuations and Organic Complexation Govern Uranium Redistribution from U(IV)-Phosphate Minerals in a Mining-Polluted Wetland Soil, Brittany, France. <i>Environmental Science & Technology</i> , 2018, 52, 13099-13109.	10.0	40
42	A new synchrotron rapid-scanning X-ray fluorescence (SRS-XRF) imaging station at SSRL beamline 6-2. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1565-1573.	2.4	19
43	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
44	Cold crucible induction melter test for crystalline ceramic waste form fabrication: A feasibility assessment. <i>Journal of Nuclear Materials</i> , 2017, 486, 283-297.	2.7	21
45	Pathogenic implications of distinct patterns of iron and zinc in chronic MS lesions. <i>Acta Neuropathologica</i> , 2017, 134, 45-64.	7.7	94
46	Biom mineralization of U(VI) phosphate promoted by microbially-mediated phytate hydrolysis in contaminated soils. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 197, 27-42.	3.9	26
47	Quantifying Cr(VI) Production and Export from Serpentine Soil of the California Coast Range. <i>Environmental Science & Technology</i> , 2017, 51, 141-149.	10.0	58
48	Evidence for the Root-Uptake of Arsenite at Lateral Root Junctions and Root Apices in Rice (<i>Oryza</i>). <i>Plant Physiology</i> , 2017, 174, 1010-1020.	1.0	12
49	Iron mineralogy and redox conditions during deposition of the mid-Proterozoic Appekunny Formation, Belt Supergroup, Glacier National Park. <i>Special Paper of the Geological Society of America</i> , 2016, , 221-242.	0.5	8
50	Deletion of Phytochelatin Synthase Modulates the Metal Accumulation Pattern of Cadmium Exposed <i>C. elegans</i> . <i>International Journal of Molecular Sciences</i> , 2016, 17, 257.	4.1	15
51	MP19-17 SPATIAL DISTRIBUTION AND CONCENTRATION OF ELEMENTS WITHIN LIESEGANG-LIKE RINGS IN APATITE-BASED KIDNEY STONES. <i>Journal of Urology</i> , 2016, 195, .	0.4	0
52	Nutrient and pollutant metals within earthworm residues are immobilized in soil during decomposition. <i>Soil Biology and Biochemistry</i> , 2016, 101, 217-225.	8.8	8
53	The chemical, mechanical, and hydrological evolution of weathering granitoid. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 1410-1435.	2.8	49
54	Relating structure and composition with accessibility of a single catalyst particle using correlative 3-dimensional micro-spectroscopy. <i>Nature Communications</i> , 2016, 7, 12634.	12.8	74

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55	Real-Time Manganese Phase Dynamics during Biological and Abiotic Manganese Oxide Reduction. <i>Environmental Science & Technology</i> , 2016, 50, 4248-4258.	10.0	69
56	Copper Speciation in Variably Toxic Sediments at the Ely Copper Mine, Vermont, United States. <i>Environmental Science & Technology</i> , 2016, 50, 1126-1136.	10.0	7
57	Manganese mineralogy and diagenesis in the sedimentary rock record. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 210-231.	3.9	150
58	Sulfur K-edge XANES of lazurite: Toward determining the provenance of lapis lazuli. <i>Microchemical Journal</i> , 2016, 125, 299-307.	4.5	26
59	Microbial- and thiosulfate-mediated dissolution of mercury sulfide minerals and transformation to gaseous mercury. <i>Frontiers in Microbiology</i> , 2015, 6, 596.	3.5	17
60	Mineral Density Volume Gradients in Normal and Diseased Human Tissues. <i>PLoS ONE</i> , 2015, 10, e0121611.	2.5	57
61	Zinc Speciation in Contaminated Sediments: Quantitative Determination of Zinc Coordination by X-ray Absorption Spectroscopy. <i>Aquatic Geochemistry</i> , 2015, 21, 295-312.	1.3	10
62	Speciation Matters: Bioavailability of Silver and Silver Sulfide Nanoparticles to Alfalfa (<i>Medicago</i>) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 5	10.0	96
63	Multiscale Speciation of U and Pu at Chernobyl, Hanford, Los Alamos, McGuire AFB, Mayak, and Rocky Flats. <i>Environmental Science & Technology</i> , 2015, 49, 6474-6484.	10.0	43
64	Strain-guided mineralization in the boneâ€PDLâ€cementum complex of a rat periodontium. <i>Bone Reports</i> , 2015, 3, 20-31.	0.4	16
65	Sedimentary ironâ€phosphorus cycling under contrasting redox conditions in a eutrophic estuary. <i>Chemical Geology</i> , 2015, 392, 19-31.	3.3	55
66	Spatial imaging of Zn and other elements in Huanglongbing-affected grapefruit by synchrotron-based micro X-ray fluorescence investigation. <i>Journal of Experimental Botany</i> , 2014, 65, 953-964.	4.8	42
67	Neoproterozoic carbonateâ€associated sulfate records positive $\delta^{34}\text{S}$ anomalies. <i>Science</i> , 2014, 346, 739-741.	12.6	70
68	Leaf metallome preserved over 50 million years. <i>Metallomics</i> , 2014, 6, 774-782.	2.4	35
69	Chromium(III) oxidation by biogenic manganese oxides with varying structural ripening. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 2127-2136.	3.5	61
70	The narwhal (<i>Monodon monoceros</i>) cementumâ€dentin junction: A functionally graded biointerphase. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014, 228, 754-767.	1.8	6
71	Microbiological Reduction of Sb(V) in Anoxic Freshwater Sediments. <i>Environmental Science & Technology</i> , 2014, 48, 218-226.	10.0	108
72	Constraints on Precipitation of the Ferrous Arsenite Solid $\text{H}_7\text{Fe}_4(\text{AsO}_3)_5$. <i>Journal of Environmental Quality</i> , 2014, 43, 947-954.	2.0	7

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73	Elastic discontinuity due to ectopic calcification in a human fibrous joint. <i>Acta Biomaterialia</i> , 2013, 9, 4787-4795.	8.3	7
74	Distributed microbially- and chemically-mediated redox processes controlling arsenic dynamics within Mn-/Fe-oxide constructed aggregates. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 104, 29-41.	3.9	41
75	Manganese-oxidizing photosynthesis before the rise of cyanobacteria. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 11238-11243.	7.1	189
76	Reply to Jones and Crowe: Correcting mistaken views of sedimentary geology, Mn-oxidation rates, and molecular clocks. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E4119-20.	7.1	8
77	Efficient xylem transport and phloem remobilization of Zn in the hyperaccumulator plant species <i>Sedum alfredii</i> . <i>New Phytologist</i> , 2013, 198, 721-731.	7.3	106
78	The plastic nature of the human boneâ€periodontal ligamentâ€tooth fibrous joint. <i>Bone</i> , 2013, 57, 455-467.	2.9	44
79	Mercury Localization and Speciation in Plants Grown Hydroponically or in a Natural Environment. <i>Environmental Science & Technology</i> , 2013, 47, 3082-3090.	10.0	80
80	In Situ X-ray Absorption Spectroscopy Investigation of a Bifunctional Manganese Oxide Catalyst with High Activity for Electrochemical Water Oxidation and Oxygen Reduction. <i>Journal of the American Chemical Society</i> , 2013, 135, 8525-8534.	13.7	478
81	Uranium(VI) Interactions with Mackinawite in the Presence and Absence of Bicarbonate and Oxygen. <i>Environmental Science & Technology</i> , 2013, 47, 7357-7364.	10.0	44
82	Micro x-ray absorption spectroscopic analysis of arsenic localization and biotransformation in <i>Chironomus riparius</i> Meigen (Diptera: Chironomidae) and <i>Culex tarsalis</i> Coquillett (Culicidae). <i>Environmental Pollution</i> , 2013, 180, 78-83.	7.5	16
83	(Micro)spectroscopic Analyses of Particle Size Dependence on Arsenic Distribution and Speciation in Mine Wastes. <i>Environmental Science & Technology</i> , 2013, 47, 8164-8171.	10.0	40
84	The role of anaerobic respiration in the immobilization of uranium through biomineralization of phosphate minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 106, 344-363.	3.9	57
85	Uranium redox transition pathways in acetate-amended sediments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 4506-4511.	7.1	161
86	Brine film thicknesses on mica surfaces under geologic CO_2 sequestration conditions and controlled capillary pressures. <i>Water Resources Research</i> , 2013, 49, 5071-5076.	4.2	15
87	Melanin Concentration Gradients in Modern and Fossil Feathers. <i>PLoS ONE</i> , 2013, 8, e59451.	2.5	39
88	Mn(II) oxidation by an ascomycete fungus is linked to superoxide production during asexual reproduction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 12621-12625.	7.1	178
89	Geochemical Weathering Increases Lead Bioaccessibility in Semi-Arid Mine Tailings. <i>Environmental Science & Technology</i> , 2012, 46, 5834-5841.	10.0	48
90	Imaging of stroke: a comparison between X-ray fluorescence and magnetic resonance imaging methods. <i>Magnetic Resonance Imaging</i> , 2012, 30, 1416-1423.	1.8	15

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91	Imaging translocation and transformation of bioavailable selenium by <i>Stanleya pinnata</i> with X-ray microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 404, 1277-1285.	3.7	7
92	Arsenic and chromium speciation in an urban contaminated soil. <i>Chemosphere</i> , 2012, 88, 1196-1201.	8.2	55
93	Microscale Imaging and Identification of Fe Speciation and Distribution during Fluidâ€“Mineral Reactions under Highly Reducing Conditions. <i>Environmental Science & Technology</i> , 2011, 45, 4468-4474.	10.0	65
94	Changes in Zinc Speciation with Mine Tailings Acidification in a Semiarid Weathering Environment. <i>Environmental Science & Technology</i> , 2011, 45, 7166-7172.	10.0	19
95	Diversity of Mn oxides produced by Mn(II)-oxidizing fungi. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 2762-2776.	3.9	161
96	Defining the distribution of arsenic species and plant nutrients in rice (<i>Oryza sativa</i> L.) from the root to the grain. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6655-6671.	3.9	75
97	The effect of pH and natural microbial phosphatase activity on the speciation of uranium in subsurface soils. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 5648-5663.	3.9	64
98	Coupled bioticâ€“abiotic Mn(II) oxidation pathway mediates the formation and structural evolution of biogenic Mn oxides. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6048-6063.	3.9	191
99	Uranium speciation and stability after reductive immobilization in aquifer sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6497-6510.	3.9	112
100	Trace Metals as Biomarkers for Eumelanin Pigment in the Fossil Record. <i>Science</i> , 2011, 333, 1622-1626.	12.6	147
101	A Bacterium That Can Grow by Using Arsenic Instead of Phosphorus. <i>Science</i> , 2011, 332, 1163-1166.	12.6	422
102	The MicroAnalysis Toolkit: X-ray Fluorescence Image Processing Software. AIP Conference Proceedings, 2011, , .	0.4	112
103	Discontinuities in the human boneâ€“PDLâ€“cementum complex. <i>Biomaterials</i> , 2011, 32, 7106-7117.	11.4	35
104	Response to Comments on â€œA Bacterium That Can Grow Using Arsenic Instead of Phosphorusâ€“. <i>Science</i> , 2011, 332, 1149-1149.	12.6	23
105	Synchrotron X-ray analyses demonstrate phosphate-bound gadolinium in skin in nephrogenic systemic fibrosis. <i>British Journal of Dermatology</i> , 2010, 163, 1077-1081.	1.5	59
106	Arsenic Localization, Speciation, and Co-Occurrence with Iron on Rice (<i>Oryza sativa</i> L.) Roots Having Variable Fe Coatings. <i>Environmental Science & Technology</i> , 2010, 44, 8108-8113.	10.0	163
107	Spatial Imaging and Speciation of Lead in the Accumulator Plant <i>Sedum alfredii</i> by Microscopically Focused Synchrotron X-ray Investigation. <i>Environmental Science & Technology</i> , 2010, 44, 5920-5926.	10.0	89
108	Site Specific X-ray Anomalous Dispersion of the Geometrically Frustrated KagomÃ© Magnet, Herbertsmithite, $ZnCu_3(OH)_6Cl_2$. <i>Journal of the American Chemical Society</i> , 2010, 132, 16185-16190.	13.7	166

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109	Characterization of manganese oxide precipitates from Appalachian coal mine drainage treatment systems. <i>Applied Geochemistry</i> , 2010, 25, 389-399.	3.0	71
110	The Interaction of Bromide Ions with Graphitic Materials. <i>Advanced Materials</i> , 2009, 21, 102-106.	21.0	24
111	A seafloor microbial biome hosted within incipient ferromanganese crusts. <i>Nature Geoscience</i> , 2009, 2, 872-876.	12.9	87
112	Effects of Soluble Cadmium Salts Versus CdSe Quantum Dots on the Growth of Planktonic <i>Pseudomonas aeruginosa</i> . <i>Environmental Science & Technology</i> , 2009, 43, 2589-2594.	10.0	147
113	Tracing Copper-Thiomolybdate Complexes in a Prospective Treatment for Wilson's Disease. <i>Biochemistry</i> , 2009, 48, 891-897.	2.5	70
114	XANES Evidence for Oxidation of Cr(III) to Cr(VI) by Mn-Oxides in a Lateritic Regolith Developed on Serpentinized Ultramafic Rocks of New Caledonia. <i>Environmental Science & Technology</i> , 2009, 43, 7384-7390.	10.0	154
115	Structural characterization of terrestrial microbial Mn oxides from Pinal Creek, AZ. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 889-910.	3.9	112
116	Enzymatic microbial Mn(II) oxidation and Mn biooxide production in the Guaymas Basin deep-sea hydrothermal plume. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6517-6530.	3.9	85
117	Nonreductive Biomineralization of Uranium(VI) Phosphate Via Microbial Phosphatase Activity in Anaerobic Conditions. <i>Geomicrobiology Journal</i> , 2009, 26, 431-441.	2.0	89
118	Comparison of EXAFS foil spectra from around the world. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012032.	0.4	11
119	Structure of Biogenic Uraninite Produced by <i>Shewanella oneidensis</i> Strain MR-1. <i>Environmental Science & Technology</i> , 2008, 42, 7898-7904.	10.0	119
120	Weathering of the Rio Blanco quartz diorite, Luquillo Mountains, Puerto Rico: Coupling oxidation, dissolution, and fracturing. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 4488-4507.	3.9	204
121	XAS Study of a Metal-Induced Phase Transition by a Microbial Surfactant. <i>Langmuir</i> , 2008, 24, 4999-5002.	3.5	13
122	High Rates of Sulfate Reduction in a Low-Sulfate Hot Spring Microbial Mat Are Driven by a Low Level of Diversity of Sulfate-Respiring Microorganisms. <i>Applied and Environmental Microbiology</i> , 2007, 73, 5218-5226.	3.1	59
123	Indirect Oxidation of Co(II) in the Presence of the Marine Mn(II)-Oxidizing Bacterium <i>Bacillus</i> sp. Strain SG-1. <i>Applied and Environmental Microbiology</i> , 2007, 73, 6905-6909.	3.1	56
124	Uranium Biomineralization as a Result of Bacterial Phosphatase Activity: Insights from Bacterial Isolates from a Contaminated Subsurface. <i>Environmental Science & Technology</i> , 2007, 41, 5701-5707.	10.0	176
125	Determination of Uranyl Incorporation into Biogenic Manganese Oxides Using X-ray Absorption Spectroscopy and Scattering. <i>Environmental Science & Technology</i> , 2006, 40, 771-777.	10.0	81
126	Enhanced Exopolymer Production and Chromium Stabilization in <i>Pseudomonas putida</i> Unsaturated Biofilms. <i>Applied and Environmental Microbiology</i> , 2006, 72, 1988-1996.	3.1	200

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127	Zinc sorption to biogenic hexagonal-birnessite particles within a hydrated bacterial biofilm. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 27-43.	3.9	177
128	EXAFS, XANES and In-Situ SRXRD Characterization of Biogenic Manganese Oxides Produced in Sea Water. <i>Physica Scripta</i> , 2005, , 888.	2.5	20
129	Dopant site selectivity in BaCe _{0.85} Mn _{0.15} O _{3-δ} by extended x-ray absorption fine structure. <i>Journal of Applied Physics</i> , 2005, 97, 054101.	2.5	23
130	Evidence for the presence of Mn(III) intermediates in the bacterial oxidation of Mn(II). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5558-5563.	7.1	287
131	Structural Influences of Sodium and Calcium Ions on the Biogenic Manganese Oxides Produced by the Marine <i>Bacillus</i> Sp., Strain SG-1. <i>Geomicrobiology Journal</i> , 2005, 22, 181-193.	2.0	56
132	Biotic and abiotic products of Mn(II) oxidation by spores of the marine <i>Bacillus</i> sp. strain SG-1. <i>American Mineralogist</i> , 2005, 90, 143-154.	1.9	237
133	Structural characterization of biogenic Mn oxides produced in seawater by the marine <i>Bacillus</i> sp. strain SG-1. <i>American Mineralogist</i> , 2005, 90, 1342-1357.	1.9	243
134	SIXPack a Graphical User Interface for XAS Analysis Using IFEFFIT. <i>Physica Scripta</i> , 2005, , 1011.	2.5	872
135	BIOGENIC MANGANESE OXIDES: Properties and Mechanisms of Formation. <i>Annual Review of Earth and Planetary Sciences</i> , 2004, 32, 287-328.	11.0	1,081
136	XAS Speciation of Arsenic in a Hyper-Accumulating Fern. <i>Environmental Science & Technology</i> , 2003, 37, 754-760.	10.0	168
137	Zinc and lead sequestration in an impacted wetland system. <i>Journal of Environmental Management</i> , 2003, 8, 103-112.	1.7	71
138	Quick X-ray absorption spectroscopy for determining metal speciation in environmental samples. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 928-930.	2.4	31
139	An EXAFS study of zinc coordination in microbial cells. <i>Journal of Synchrotron Radiation</i> , 2001, 8, 943-945.	2.4	14
140	Zinc Speciation in a Contaminated Aquatic Environment:Â Characterization of Environmental Particles by Analytical Electron Microscopy. <i>Environmental Science & Technology</i> , 2000, 34, 1926-1933.	10.0	52
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