

Sam M Webb

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

140
papers

8,655
citations

48
h-index

91
g-index

146
ext. papers

9,795
ext. citations

7.7
avg, IF

6.17
L-index

#	Paper	IF	Citations
140	Reexamination of 2.5-Ga "whiff" of oxygen interval points to anoxic ocean before GOE.. <i>Science Advances</i> , 2022 , 8, eabj7190	14.3	10
139	X-ray Fluorescence Spectroscopy of Picrolite Raw Material on Cyprus. <i>Heritage</i> , 2022 , 5, 664-677	1.6	1
138	Organic sulfur fluxes and geomorphic control of sulfur isotope ratios in rivers. <i>Earth and Planetary Science Letters</i> , 2021 , 562, 116838	5.3	1
137	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	5.5	4
136	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,	11.5	5
135	Synchrotron x-ray fluorescence analysis reveals diagenetic alteration of fossil melanosome trace metal chemistry. <i>Palaeontology</i> , 2021 , 64, 63-73	2.9	0
134	Iron Heterogeneity in Early Active Multiple Sclerosis Lesions. <i>Annals of Neurology</i> , 2021 , 89, 498-510	9.4	9
133	Microbial sulfate reduction and organic sulfur formation in sinking marine particles. <i>Science</i> , 2021 , 371, 178-181	33.3	18
132	Electrochemically induced metal- vs. ligand-based redox changes in mackinawite: identification of a Fe- and polysulfide-containing intermediate. <i>Dalton Transactions</i> , 2021 , 50, 11763-11774	4.3	0
131	Manganese oxides in Martian meteorites Northwest Africa (NWA) 7034 and 7533. <i>Icarus</i> , 2021 , 364, 1144-1151	3.7	2
130	Rapid, Concurrent Formation of Organic Sulfur and Iron Sulfides During Experimental Sulfurization of Sinking Marine Particles. <i>Global Biogeochemical Cycles</i> , 2021 , 35, e2021GB007062	5.9	4
129	Seasonal Zinc Storage and a Strategy for Its Use in Buds of Fruit Trees. <i>Plant Physiology</i> , 2020 , 183, 12006-12012	12.6	6
128	Robust framework and software implementation for fast speciation mapping. <i>Journal of Synchrotron Radiation</i> , 2020 , 27, 1049-1058	2.4	3
127	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	4.9	4
126	Deposition of sulfate aerosols with positive $\delta^{34}\text{S}$ in the Neoproterozoic. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 285, 1-20	5.5	3
125	Sulfur isotope fractionation between aqueous and carbonate-associated sulfate in abiotic calcite and aragonite. <i>Geochimica Et Cosmochimica Acta</i> , 2020 , 280, 317-339	5.5	10
124	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	5.3	6

123	Arsenolipids in Cultured Strain ML and Their Occurrence in Biota and Sediment from Mono Lake, California. <i>Life</i> , 2020 , 10,	3	6
122	Reinforcement Learning for Adaptive Illumination with X-rays 2020 ,		4
121	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, The</i> , 2020 , 145, 7242-7251	5	1
120	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	3.7	9
119	Synchrotron X-ray absorption spectroscopy of melanosomes in vertebrates and cephalopods: implications for the affinity of. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2019 , 286, 201916494	4.4	9
118	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	11.5	14
117	Depositional and diagenetic constraints on the abundance and spatial variability of carbonate-associated sulfate. <i>Chemical Geology</i> , 2019 , 523, 59-72	4.2	15
116	Fe-bearing phases in modern lacustrine microbialites from Mexico. <i>Geochimica Et Cosmochimica Acta</i> , 2019 , 253, 201-230	5.5	5
115	Insights Into the Mineralogy and Surface Chemistry of Extracellular Biogenic S Globules Produced by. <i>Frontiers in Microbiology</i> , 2019 , 10, 271	5.7	15
114	Mid-Proterozoic Ferruginous Conditions Reflect Postdepositional Processes. <i>Geophysical Research Letters</i> , 2019 , 46, 3114-3123	4.9	4
113	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	8.4	13
112	Chemical and Isotopic Evidence for Organic Matter Sulfurization in Redox Gradients Around Mangrove Roots. <i>Frontiers in Earth Science</i> , 2019 , 7,	3.5	9
111	Fate of cobalt and nickel in mackinawite during diagenetic pyrite formation. <i>American Mineralogist</i> , 2019 , 104, 917-928	2.9	10
110	The source of sulfate in brachiopod calcite: Insights from EXRF imaging and XANES spectroscopy. <i>Chemical Geology</i> , 2019 , 529, 119328	4.2	6
109	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	0.6	3
108	Biogenesis of zinc storage granules in. <i>Journal of Experimental Biology</i> , 2018 , 221,	3	20
107	Periphyton and abiotic factors influencing arsenic speciation in aquatic environments. <i>Environmental Toxicology and Chemistry</i> , 2018 , 37, 903-913	3.8	7
106	Insights into the Interconnection of the Electrodes and Electrolyte Species in LithiumSulfur 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	3.8	8

105	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	2.1	24
104	Organic carbon burial during OAE2 driven by changes in the locus of organic matter sulfurization. <i>Nature Communications</i> , 2018 , 9, 3409	17.4	41
103	Molecular genetic and biochemical characterization of a putative family of zinc metalloproteins in <i>Caenorhabditis elegans</i> . <i>Metallomics</i> , 2018 , 10, 1814-1823	4.5	2
102	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	7.8	7
101	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	10.3	24
100	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	16
99	Cold crucible induction melter test for crystalline ceramic waste form fabrication: A feasibility assessment. <i>Journal of Nuclear Materials</i> , 2017 , 486, 283-297	3.3	18
98	Pathogenic implications of distinct patterns of iron and zinc in chronic MS lesions. <i>Acta Neuropathologica</i> , 2017 , 134, 45-64	14.3	67
97	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	5.5	15
96	Quantifying Cr(VI) Production and Export from Serpentine Soil of the California Coast Range. <i>Environmental Science & Technology</i> , 2017 , 51, 141-149	10.3	42
95	Evidence for the Root-Uptake of Arsenite at Lateral Root Junctions and Root Apices in Rice (<i>Oryza sativa</i> L.) 2017 , 1, 3		7
94	Nutrient and pollutant metals within earthworm residues are immobilized in soil during decomposition. <i>Soil Biology and Biochemistry</i> , 2016 , 101, 217-225	7.5	5
93	The chemical, mechanical, and hydrological evolution of weathering granitoid. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016 , 121, 1410-1435	3.8	31
92	Relating structure and composition with accessibility of a single catalyst particle using correlative 3-dimensional micro-spectroscopy. <i>Nature Communications</i> , 2016 , 7, 12634	17.4	61
91	Real-Time Manganese Phase Dynamics during Biological and Abiotic Manganese Oxide Reduction. <i>Environmental Science & Technology</i> , 2016 , 50, 4248-58	10.3	46
90	Copper Speciation in Variably Toxic Sediments at the Ely Copper Mine, Vermont, United States. <i>Environmental Science & Technology</i> , 2016 , 50, 1126-36	10.3	7
89	Manganese mineralogy and diagenesis in the sedimentary rock record. <i>Geochimica Et Cosmochimica Acta</i> , 2016 , 173, 210-231	5.5	106
88	Sulfur K-edge XANES of lazurite: Toward determining the provenance of lapis lazuli. <i>Microchemical Journal</i> , 2016 , 125, 299-307	4.8	21

87	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		5
86	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	6.3	10
85	Zinc Speciation in Contaminated Sediments: Quantitative Determination of Zinc Coordination by X-ray Absorption Spectroscopy. <i>Aquatic Geochemistry</i> , 2015 , 21, 295-312	1.7	9
84	Speciation Matters: Bioavailability of Silver and Silver Sulfide Nanoparticles to Alfalfa (<i>Medicago sativa</i>). <i>Environmental Science & Technology</i> , 2015 , 49, 8451-60	10.3	81
83	Multiscale Speciation of U and Pu at Chernobyl, Hanford, Los Alamos, McGuire AFB, Mayak, and Rocky Flats. <i>Environmental Science & Technology</i> , 2015 , 49, 6474-84	10.3	36
82	Strain-guided mineralization in the bone-PDL-cementum complex of a rat periodontium. <i>Bone Reports</i> , 2015 , 3, 20-31	2.6	10
81	Sedimentary iron-phosphorus cycling under contrasting redox conditions in a eutrophic estuary. <i>Chemical Geology</i> , 2015 , 392, 19-31	4.2	40
80	Microbial- and thiosulfate-mediated dissolution of mercury sulfide minerals and transformation to gaseous mercury. <i>Frontiers in Microbiology</i> , 2015 , 6, 596	5.7	9
79	Mineral density volume gradients in normal and diseased human tissues. <i>PLoS ONE</i> , 2015 , 10, e0121611	3.7	39
78	Neoproterozoic carbonate-associated sulfate records positive $\delta^{34}\text{S}$ anomalies. <i>Science</i> , 2014 , 346, 739-41	33.3	61
77	Leaf metallome preserved over 50 million years. <i>Metallomics</i> , 2014 , 6, 774-82	4.5	31
76	Chromium(III) oxidation by biogenic manganese oxides with varying structural ripening. <i>Environmental Sciences: Processes and Impacts</i> , 2014 , 16, 2127-36	4.3	51
75	The narwhal (<i>Monodon monoceros</i>) cementum-dentin junction: a functionally graded biointerphase. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2014 , 228, 754-67	1.7	5
74	Microbiological reduction of Sb(V) in anoxic freshwater sediments. <i>Environmental Science & Technology</i> , 2014 , 48, 218-26	10.3	83
73	Constraints on Precipitation of the Ferrous Arsenite Solid $\text{HFe}(\text{AsO})$. <i>Journal of Environmental Quality</i> , 2014 , 43, 947-54	3.4	3
72	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, 953-64	7	36
71	Elastic discontinuity due to ectopic calcification in a human fibrous joint. <i>Acta Biomaterialia</i> , 2013 , 9, 4787-95	10.8	7
70	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	5.5	28

69	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, 11238-43	11.5	150
68	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	11.5	8
67	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	9.8	89
66	The plastic nature of the human bone-periodontal ligament-tooth fibrous joint. <i>Bone</i> , 2013 , 57, 455-67	4.7	27
65	Mercury localization and speciation in plants grown hydroponically or in a natural environment. <i>Environmental Science & Technology</i> , 2013 , 47, 3082-90	10.3	60
64	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, 8525-34	16.4	419
63	Uranium(VI) interactions with mackinawite in the presence and absence of bicarbonate and oxygen. <i>Environmental Science & Technology</i> , 2013 , 47, 7357-64	10.3	36
62	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	9.3	15
61	(Micro)spectroscopic analyses of particle size dependence on arsenic distribution and speciation in mine wastes. <i>Environmental Science & Technology</i> , 2013 , 47, 8164-71	10.3	32
60	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	5.5	46
59	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	11.5	138
58	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	5.4	13
57	Melanin concentration gradients in modern and fossil feathers. <i>PLoS ONE</i> , 2013 , 8, e59451	3.7	30
56	Geochemical weathering increases lead bioaccessibility in semi-arid mine tailings. <i>Environmental Science & Technology</i> , 2012 , 46, 5834-41	10.3	42
55	Imaging of stroke: a comparison between X-ray fluorescence and magnetic resonance imaging methods. <i>Magnetic Resonance Imaging</i> , 2012 , 30, 1416-23	3.3	12
54	Imaging translocation and transformation of bioavailable selenium by <i>Stanleya pinnata</i> with X-ray microscopy. <i>Analytical and Bioanalytical Chemistry</i> , 2012 , 404, 1277-85	4.4	4
53	Arsenic and chromium speciation in an urban contaminated soil. <i>Chemosphere</i> , 2012 , 88, 1196-201	8.4	40
52	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, 12621-5	11.5	132

51	Diversity of Mn oxides produced by Mn(II)-oxidizing fungi. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 2762-2776	5.5	131
50	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	5.5	61
49	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	5.5	53
48	Coupled biotic/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	5.5	146
47	Uranium speciation and stability after reductive immobilization in aquifer sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2011 , 75, 6497-6510	5.5	95
46	Trace metals as biomarkers for eumelanin pigment in the fossil record. <i>Science</i> , 2011 , 333, 1622-6	33.3	129
45	A bacterium that can grow by using arsenic instead of phosphorus. <i>Science</i> , 2011 , 332, 1163-6	33.3	331
44	The MicroAnalysis Toolkit: X-ray Fluorescence Image Processing Software 2011 ,		81
43	Discontinuities in the human bone-PDL-cementum complex. <i>Biomaterials</i> , 2011 , 32, 7106-17	15.6	31
42	Microscale imaging and identification of Fe speciation and distribution during fluid-mineral reactions under highly reducing conditions. <i>Environmental Science & Technology</i> , 2011 , 45, 4468-74	10.3	57
41	Changes in zinc speciation with mine tailings acidification in a semiarid weathering environment. <i>Environmental Science & Technology</i> , 2011 , 45, 7166-72	10.3	16
40	Response to Comments on "A Bacterium That Can Grow Using Arsenic Instead of Phosphorus". <i>Science</i> , 2011 , 332, 1149-1149	33.3	21
39	Synchrotron X-ray analyses demonstrate phosphate-bound gadolinium in skin in nephrogenic systemic fibrosis. <i>British Journal of Dermatology</i> , 2010 , 163, 1077-81	4	46
38	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, 8108-13	10.3	137
37	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, 5920-6	10.3	77
36	Site specific X-ray anomalous dispersion of the geometrically frustrated kagomé magnet, herbertsmithite, ZnCu(3)(OH)(6)Cl(2). <i>Journal of the American Chemical Society</i> , 2010 , 132, 16185-90	16.4	133
35	Characterization of manganese oxide precipitates from Appalachian coal mine drainage treatment systems. <i>Applied Geochemistry</i> , 2010 , 25, 389-399	3.5	56
34	The Interaction of Bromide Ions with Graphitic Materials. <i>Advanced Materials</i> , 2009 , 21, 102-106	24	22

33	A seafloor microbial biome hosted within incipient ferromanganese crusts. <i>Nature Geoscience</i> , 2009 , 2, 872-876	18.3	74
32	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, 2589-94	10.3	136
31	Tracing copper-thiomolybdate complexes in a prospective treatment for Wilson's disease. <i>Biochemistry</i> , 2009 , 48, 891-7	3.2	61
30	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, 7384-90	10.3	121
29	Structural characterization of terrestrial microbial Mn oxides from Pinal Creek, AZ. <i>Geochimica Et Cosmochimica Acta</i> , 2009 , 73, 889-910	5.5	93
28	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	5.5	72
27	Nonreductive Biomineralization of Uranium(VI) Phosphate Via Microbial Phosphatase Activity in Anaerobic Conditions. <i>Geomicrobiology Journal</i> , 2009 , 26, 431-441	2.5	68
26	Comparison of EXAFS foil spectra from around the world. <i>Journal of Physics: Conference Series</i> , 2009 , 190, 012032	0.3	7
25	Structure of biogenic uraninite produced by <i>Shewanella oneidensis</i> strain MR-1. <i>Environmental Science & Technology</i> , 2008 , 42, 7898-904	10.3	111
24	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	5.5	164
23	XAS study of a metal-induced phase transition by a microbial surfactant. <i>Langmuir</i> , 2008 , 24, 4999-5002	4	13
22	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, 5218-26	4.8	38
21	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, 6905-9	4.8	43
20	Uranium biomineralization as a result of bacterial phosphatase activity: insights from bacterial isolates from a contaminated subsurface. <i>Environmental Science & Technology</i> , 2007 , 41, 5701-7	10.3	143
19	Determination of uranyl incorporation into biogenic manganese oxides using x-ray absorption spectroscopy and scattering. <i>Environmental Science & Technology</i> , 2006 , 40, 771-7	10.3	73
18	Enhanced exopolymer production and chromium stabilization in <i>Pseudomonas putida</i> unsaturated biofilms. <i>Applied and Environmental Microbiology</i> , 2006 , 72, 1988-96	4.8	167
17	Zinc sorption to biogenic hexagonal-birnessite particles within a hydrated bacterial biofilm. <i>Geochimica Et Cosmochimica Acta</i> , 2006 , 70, 27-43	5.5	155
16	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	2.5	48

15	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	2.9	196
14	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	2.9	214
13	SIXPack a Graphical User Interface for XAS Analysis Using IFEFFIT. <i>Physica Scripta</i> , 2005 , 1011	2.6	755
12	EXAFS, XANES and In-Situ SRXRD Characterization of Biogenic Manganese Oxides Produced in Sea Water. <i>Physica Scripta</i> , 2005 , 888	2.6	17
11	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	21
10	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, 5558-63	11.5	236
9	BIOGENIC MANGANESE OXIDES: Properties and Mechanisms of Formation. <i>Annual Review of Earth and Planetary Sciences</i> , 2004 , 32, 287-328	15.3	881
8	XAS speciation of arsenic in a hyper-accumulating fern. <i>Environmental Science & Technology</i> , 2003 , 37, 754-60	10.3	155
7	Zinc and lead sequestration in an impacted wetland system. <i>Journal of Environmental Management</i> , 2003 , 8, 103-112		57
6	Quick X-ray absorption spectroscopy for determining metal speciation in environmental samples. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 928-30	2.4	26
5	An EXAFS study of zinc coordination in microbial cells. <i>Journal of Synchrotron Radiation</i> , 2001 , 8, 943-5	2.4	13
4	Zinc Speciation in a Contaminated Aquatic Environment: Characterization of Environmental Particles by Analytical Electron Microscopy. <i>Environmental Science & Technology</i> , 2000 , 34, 1926-1933	10.3	49
3	Fate of Neptunium in an Anaerobic, Ethanogenic Microcosm. <i>Materials Research Society Symposia Proceedings</i> , 1999 , 556, 1141		4
2	Determination of photochemically available iron in ambient aerosols. <i>Journal of Geophysical Research</i> , 1996 , 101, 14441-14449		37
1	Photoreduction of iron oxyhydroxides in the presence of important atmospheric organic compounds. <i>Environmental Science & Technology</i> , 1993 , 27, 2056-2062	10.3	162