

# George W Luther Iii

## List of Publications by Year in descending order

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281  
papers

23,276  
citations

6254

80  
h-index

9861

141  
g-index

295  
all docs

295  
docs citations

295  
times ranked

16005  
citing authors

#	ARTICLE	IF	CITATIONS
1	Chemistry of Iron Sulfides. Chemical Reviews, 2007, 107, 514-562.	47.7	1,209
2	Occurrence and Mammalian Cell Toxicity of Iodinated Disinfection Byproducts in Drinking Water. Environmental Science & Technology, 2008, 42, 8330-8338.	10.0	830
3	Chemical influences on trace metal-sulfide interactions in anoxic sediments. Geochimica Et Cosmochimica Acta, 1999, 63, 3373-3378.	3.9	658
4	Partitioning and speciation of solid phase iron in saltmarsh sediments. Geochimica Et Cosmochimica Acta, 1994, 58, 1701-1710.	3.9	536
5	Natural, incidental, and engineered nanomaterials and their impacts on the Earth system. Science, 2019, 363, .	12.6	479
6	Competition among marine phytoplankton for different chelated iron species. Nature, 1999, 400, 858-861.	27.8	429
7	Development of a Gold Amalgam Voltammetric Microelectrode for the Determination of Dissolved Fe, Mn, O <sub>2</sub> , and S(-II) in Porewaters of Marine and Freshwater Sediments. Environmental Science & Technology, 1995, 29, 751-761.	10.0	359
8	Pyrite synthesis via polysulfide compounds. Geochimica Et Cosmochimica Acta, 1991, 55, 2839-2849.	3.9	357
9	Interactions of manganese with the nitrogen cycle: Alternative pathways to dinitrogen. Geochimica Et Cosmochimica Acta, 1997, 61, 4043-4052.	3.9	357
10	Complexation of Fe(III) by natural organic ligands in the Northwest Atlantic Ocean by a competitive ligand equilibration method and a kinetic approach. Marine Chemistry, 1995, 50, 159-177.	2.3	350
11	Kinetics of pyrite formation by the H <sub>2</sub> S oxidation of iron (II) monosulfide in aqueous solutions between 25 and 125°C: The mechanism. Geochimica Et Cosmochimica Acta, 1997, 61, 135-147.	3.9	344
12	Advective Transport Affecting Metal and Nutrient Distributions and Interfacial Fluxes in Permeable Sediments. Geochimica Et Cosmochimica Acta, 1998, 62, 613-631.	3.9	340
13	Chemical speciation drives hydrothermal vent ecology. Nature, 2001, 410, 813-816.	27.8	337
14	Iron-sulfur-phosphorus cycling in the sediments of a shallow coastal bay: Implications for sediment nutrient release and benthic macroalgal blooms. Limnology and Oceanography, 2002, 47, 1346-1354.	3.1	326
15	Iodide accumulation provides help with an inorganic antioxidant impacting atmospheric chemistry. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 6954-6958.	7.1	318
16	Commemorating Two Centuries of Iodine Research: An Interdisciplinary Overview of Current Research. Angewandte Chemie - International Edition, 2011, 50, 11598-11620.	13.8	299
17	ATR-FTIR spectroscopic studies of boric acid adsorption on hydrous ferric oxide. Geochimica Et Cosmochimica Acta, 2003, 67, 2551-2560.	3.9	294
18	Pyrite oxidation and reduction: Molecular orbital theory considerations. Geochimica Et Cosmochimica Acta, 1987, 51, 3193-3199.	3.9	291

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19	Soluble Mn(III) in Suboxic Zones. <i>Science</i> , 2006, 313, 1955-1957.	12.6	281
20	The Behaviour of Dissolved Barium in Estuaries. <i>Estuarine, Coastal and Shelf Science</i> , 1997, 45, 113-121.	2.1	231
21	Seasonal iron cycling in the salt-marsh sedimentary environment: the importance of ligand complexes with Fe(II) and Fe(III) in the dissolution of Fe(III) minerals and pyrite, respectively. <i>Marine Chemistry</i> , 1992, 40, 81-103.	2.3	227
22	Abundant Porewater Mn(III) Is a Major Component of the Sedimentary Redox System. <i>Science</i> , 2013, 341, 875-878.	12.6	222
23	Hydrothermal vents as a kinetically stable source of iron-sulphide-bearing nanoparticles to the ocean. <i>Nature Geoscience</i> , 2011, 4, 367-371.	12.9	210
24	Evidence for iron, copper and zinc complexation as multinuclear sulphide clusters in oxic rivers. <i>Nature</i> , 2000, 406, 879-882.	27.8	197
25	Low-oxygen and chemical kinetic constraints on the geochemical niche of neutrophilic iron(II) oxidizing microorganisms. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 3358-3370.	3.9	195
26	Determination of conditional stability constants and kinetic constants for strong model Fe-binding ligands in seawater. <i>Marine Chemistry</i> , 2000, 69, 1-17.	2.3	192
27	Metal Sulfide Cluster Complexes and their Biogeochemical Importance in the Environment. <i>Journal of Nanoparticle Research</i> , 2005, 7, 389-407.	1.9	191
28	The Role of One- and Two-Electron Transfer Reactions in Forming Thermodynamically Unstable Intermediates as Barriers in Multi-Electron Redox Reactions. <i>Aquatic Geochemistry</i> , 2010, 16, 395-420.	1.3	190
29	Inorganic and Organic Sulfur Cycling in Salt-Marsh Pore Waters. <i>Science</i> , 1986, 232, 746-749.	12.6	188
30	Chemical and biological reduction of Mn (III)-pyrophosphate complexes: Potential importance of dissolved Mn (III) as an environmental oxidant. <i>Geochimica Et Cosmochimica Acta</i> , 1995, 59, 885-894.	3.9	187
31	Polarographic analysis of sulfur species in marine porewaters <sup>1</sup> . <i>Limnology and Oceanography</i> , 1985, 30, 727-736.	3.1	184
32	Direct determination of iodide in seawater by cathodic stripping square wave voltammetry. <i>Analytical Chemistry</i> , 1988, 60, 1721-1724.	6.5	181
33	Profiles of strontium and barium in <i>Mercenaria mercenaria</i> and <i>Spisula solidissima</i> shells. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 3445-3456.	3.9	173
34	Thermodynamics and Kinetics of Sulfide Oxidation by Oxygen: A Look at Inorganically Controlled Reactions and Biologically Mediated Processes in the Environment. <i>Frontiers in Microbiology</i> , 2011, 2, 62.	3.5	173
35	Determination of Metal (Bi)Sulfide Stability Constants of Mn <sup>2+</sup> , Fe <sup>2+</sup> , Co <sup>2+</sup> , Ni <sup>2+</sup> , Cu <sup>2+</sup> , and Zn <sup>2+</sup> by Voltammetric Methods. <i>Environmental Science &amp; Technology</i> , 1996, 30, 671-679.	10.0	167
36	Interactions between metal oxides and species of nitrogen and iodine in bioturbated marine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2751-2763.	3.9	159

#	ARTICLE	IF	CITATIONS
37	Polarographic and Spectrophotometric Investigation of Iron(III) Complexation to 3,4-Dihydroxyphenylalanine-Containing Peptides and Proteins from <i>Mytilus edulis</i> . <i>Inorganic Chemistry</i> , 1994, 33, 5819-5824.	4.0	157
38	Use of voltammetric solid-state (micro)electrodes for studying biogeochemical processes: Laboratory measurements to real time measurements with an in situ electrochemical analyzer (ISEA). <i>Marine Chemistry</i> , 2008, 108, 221-235.	2.3	156
39	Concentration and form of dissolved sulfide in the oxic water column of the ocean. <i>Marine Chemistry</i> , 1989, 27, 165-177.	2.3	154
40	Simultaneous measurement of $O_2$ , Mn, Fe, $I^{+}$ , and $S^{+II}$ in marine pore waters with a solid-state voltammetric microelectrode. <i>Limnology and Oceanography</i> , 1998, 43, 325-333.	3.1	152
41	Sulfur enrichment of humic substances in a Delaware salt marsh sediment core. <i>Geochimica Et Cosmochimica Acta</i> , 1991, 55, 979-988.	3.9	142
42	Growth and Phylogenetic Properties of Novel Bacteria Belonging to the Epsilon Subdivision of the Proteobacteria Enriched from <i>Alvinella pompejana</i> and Deep-Sea Hydrothermal Vents. <i>Applied and Environmental Microbiology</i> , 2001, 67, 4566-4572.	3.1	137
43	Potential for Microscale Bacterial Fe Redox Cycling at the Aerobic-Anaerobic Interface. <i>Geomicrobiology Journal</i> , 2004, 21, 379-391.	2.0	137
44	Soluble Mn(III)-L complexes are abundant in oxygenated waters and stabilized by humic ligands. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 238-246.	3.9	135
45	In Situ Deployment of Voltammetric, Potentiometric, and Amperometric Microelectrodes from a ROV To Determine Dissolved $O_2$ , Mn, Fe, $S^{+2}$ , and pH in Porewaters. <i>Environmental Science &amp; Technology</i> , 1999, 33, 4352-4356.	10.0	134
46	Sulfur speciation and sulfide oxidation in the water column of the Black Sea. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1991, 38, S1121-S1137.	1.5	133
47	Sulfur speciation monitored in situ with solid state gold amalgam voltammetric microelectrodes: polysulfides as a special case in sediments, microbial mats and hydrothermal vent waters. <i>Journal of Environmental Monitoring</i> , 2001, 3, 61-66.	2.1	130
48	Redox reactions and weak buffering capacity lead to acidification in the Chesapeake Bay. <i>Nature Communications</i> , 2017, 8, 369.	12.8	128
49	Reactivity of Freshly Formed Fe(III) in Synthetic Solutions and (Pore)Waters: A Voltammetric Evidence of an Aging Process. <i>Environmental Science &amp; Technology</i> , 2000, 34, 2169-2177.	10.0	126
50	Composition of anoxic hypersaline brines in the Tyro and Bannock Basins, eastern Mediterranean. <i>Marine Chemistry</i> , 1990, 31, 63-88.	2.3	125
51	Seasonal cycling of Fe in saltmarsh sediments. <i>Biogeochemistry</i> , 1995, 29, 159-181.	3.5	125
52	Pyrite and oxidized iron mineral phases formed from pyrite oxidation in salt marsh and estuarine sediments. <i>Geochimica Et Cosmochimica Acta</i> , 1982, 46, 2665-2669.	3.9	124
53	Title is missing!. , 1997, 3, 191-211.		123
54	Aqueous Copper Sulfide Clusters as Intermediates during Copper Sulfide Formation. <i>Environmental Science &amp; Technology</i> , 2002, 36, 394-402.	10.0	122

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55	Evidence for aqueous clusters as intermediates during zinc sulfide formation. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 3159-3169.	3.9	120
56	Seasonal cycling of sulfur and iron in porewaters of a Delaware salt marsh. <i>Marine Chemistry</i> , 1988, 23, 295-309.	2.3	115
57	Dissolved organic Fe(III) and Fe(II) complexes in salt marsh porewaters. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 951-960.	3.9	113
58	Manganese(II) Oxidation and Mn(IV) Reduction in the Environment—Two One-Electron Transfer Steps Versus a Single Two-Electron Step. <i>Geomicrobiology Journal</i> , 2005, 22, 195-203.	2.0	112
59	Variation in Fe-organic complexation with depth in the Northwestern Atlantic Ocean as determined using a kinetic approach. <i>Marine Chemistry</i> , 1998, 62, 241-258.	2.3	111
60	Dynamic hydrologic and biogeochemical processes drive microbially enhanced iron and sulfur cycling within the intertidal mixing zone of a beach aquifer. <i>Limnology and Oceanography</i> , 2015, 60, 329-345.	3.1	111
61	Lateral injection of oxygen with the Bosphorus plume—fingers of oxidizing potential in the Black Sea. <i>Limnology and Oceanography</i> , 2003, 48, 2369-2376.	3.1	110
62	Metal Sulfide Complexes and Clusters. <i>Reviews in Mineralogy and Geochemistry</i> , 2006, 61, 421-504.	4.8	108
63	Simultaneous determination of soluble manganese(III), manganese(II) and total manganese in natural (pore)waters. <i>Talanta</i> , 2011, 84, 374-381.	5.5	108
64	Size-fractionated iron concentrations in the water column of the western North Atlantic Ocean. <i>Limnology and Oceanography</i> , 1994, 39, 1119-1129.	3.1	107
65	Quantifying elemental sulfur (S <sup>0</sup> ), bisulfide (HS <sup>-</sup> ) and polysulfides (S <sub>x</sub> <sup>2-</sup> ) using a voltammetric method. <i>Analytica Chimica Acta</i> , 2000, 415, 175-184.	5.4	106
66	Reductive dissolution of manganese(III, IV) (hydr)oxides by oxalate: the effect of pH and light. <i>Langmuir</i> , 1992, 8, 95-103.	3.5	104
67	Mechanisms of oxidation of organosulfur compounds by ferrate(VI). <i>Chemosphere</i> , 2011, 82, 1083-1089.	8.2	102
68	Reduction of iodate in seawater during Arabian Sea shipboard incubations and in laboratory cultures of the marine bacterium <i>Shewanella putrefaciens</i> strain MR-4. <i>Marine Chemistry</i> , 1997, 57, 347-354.	2.3	99
69	Control of Ferrous Iron Oxidation within Circumneutral Microbial Iron Mats by Cellular Activity and Autocatalysis. <i>Environmental Science &amp; Technology</i> , 2007, 41, 6084-6089.	10.0	99
70	Nanoparticulate pyrite and other nanoparticles are a widespread component of hydrothermal vent black smoker emissions. <i>Chemical Geology</i> , 2014, 366, 32-41.	3.3	98
71	Oxidation state of sulfur in thiosulfate and implications for anaerobic energy metabolism. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 1619-1623.	3.9	97
72	Rapid, oxygen-dependent microbial Mn(II) oxidation kinetics at sub-micromolar oxygen concentrations in the Black Sea suboxic zone. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1878-1889.	3.9	97

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73	Sulphur speciation in anoxic hypersaline sediments from the eastern Mediterranean Sea. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 307-321.	3.9	96
74	Microbial essentials at hydrothermal vents. <i>Nature</i> , 2000, 404, 835-835.	27.8	96
75	The Application of Electrochemical Tools for In Situ Measurements in Aquatic Systems. <i>Electroanalysis</i> , 2000, 12, 401-412.	2.9	95
76	The molecular biogeochemistry of manganese(II) oxidation. <i>Biochemical Society Transactions</i> , 2012, 40, 1244-1248.	3.4	95
77	Evidence for the role of endosymbionts in regional-scale habitat partitioning by hydrothermal vent symbioses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, E3241-50.	7.1	94
78	A comparison of dissolved iodine cycling at the Bermuda Atlantic Time-series Station and Hawaii Ocean Time-series Station. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1996, 43, 455-466.	1.4	90
79	The Microbial Ferrous Wheel in a Neutral pH Groundwater Seep. <i>Frontiers in Microbiology</i> , 2012, 3, 172.	3.5	90
80	Temporal and spatial variability of reduced sulfur species ( $\text{FeS}_2$ , $\text{S}_2\text{O}_3^{2-}$ ) and porewater parameters in salt marsh sediments. <i>Biogeochemistry</i> , 1991, 14, 57-88.	3.5	87
81	Redox Chemistry in the Root Zone of a Salt Marsh Sediment in the Tagus Estuary, Portugal. <i>Aquatic Geochemistry</i> , 2003, 9, 257-271.	1.3	86
82	Microbial Iron Mats at the Mid-Atlantic Ridge and Evidence that Zetaproteobacteria May Be Restricted to Iron-Oxidizing Marine Systems. <i>PLoS ONE</i> , 2015, 10, e0119284.	2.5	85
83	Polarographic determination of half-wave potentials for copper-organic complexes in seawater. <i>Marine Chemistry</i> , 1999, 67, 219-232.	2.3	83
84	Evidence for the presence of strong Mn(III)-binding ligands in the water column of the Chesapeake Bay. <i>Marine Chemistry</i> , 2015, 171, 58-66.	2.3	81
85	Redox Chemistry of Iodine in Seawater. <i>Advances in Chemistry Series</i> , 1995, , 135-155.	0.6	80
86	Mediation of Sulfur Speciation by a Black Sea Facultative Anaerobe. <i>Science</i> , 1993, 259, 801-803.	12.6	78
87	Voltammetric estimation of iron(III) thermodynamic stability constants for catecholate siderophores isolated from marine bacteria and cyanobacteria. <i>Marine Chemistry</i> , 1995, 50, 179-188.	2.3	78
88	Measuring Metal Sulfide Complexes in Oxidic River Waters with Square Wave Voltammetry. <i>Environmental Science &amp; Technology</i> , 1999, 33, 3021-3026.	10.0	78
89	Marine Chemical Technology and Sensors for Marine Waters: Potentials and Limits. <i>Annual Review of Marine Science</i> , 2009, 1, 91-115.	11.6	78
90	Biotic and abiotic factors affecting distributions of megafauna in diffuse flow on andesite and basalt along the Eastern Lau Spreading Center, Tonga. <i>Marine Ecology - Progress Series</i> , 2010, 418, 25-45.	1.9	78

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91	Iodine chemistry reflects productivity and denitrification in the Arabian Sea: evidence for flux of dissolved species from sediments of western India into the OMZ. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 2303-2318.	1.4	77
92	Spatial and temporal distribution of iron in the surface water of the northwestern Atlantic Ocean. Geochimica Et Cosmochimica Acta, 1996, 60, 2729-2741.	3.9	76
93	The Fe(II)-oxidizing <i>Zetaproteobacteria</i> : historical, ecological and genomic perspectives. FEMS Microbiology Ecology, 2019, 95, .	2.7	76
94	Physicochemical characterization of the microhabitat of the epibionts associated with <i>Alvinella pompejana</i> , a hydrothermal vent annelid. Geochimica Et Cosmochimica Acta, 2004, 68, 2055-2066.	3.9	72
95	The East Pacific Rise Between 9°N and 10°N: Twenty-Five Years of Integrated, Multidisciplinary Oceanic Spreading Center Studies. Oceanography, 2012, 25, 18-43.	1.0	72
96	The Adsorption of the Adhesive Protein of the Blue Mussel <i>Mytilus edulis</i> L onto Type 304L Stainless Steel. Journal of Colloid and Interface Science, 1994, 168, 206-216.	9.4	71
97	Quantitative Assessment of the Sulfuric Acid Contribution to New Particle Growth. Environmental Science & Technology, 2012, 46, 4365-4373.	10.0	71
98	Iodine speciation in the water column of the Black Sea. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, S875-S882.	1.5	70
99	Distribution of diffuse flow megafauna in two sites on the Eastern Lau Spreading Center, Tonga. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 2041-2056.	1.4	68
100	Sulfur speciation in the upper Black Sea sediments. Chemical Geology, 2010, 269, 364-375.	3.3	68
101	Iron and Sulfur Chemistry in a Stratified Lake: Evidence for Iron-Rich Sulfide Complexes. Aquatic Geochemistry, 2003, 9, 87-110.	1.3	67
102	The role of microaerophilic Fe-oxidizing microorganisms in producing banded iron formations. Geobiology, 2016, 14, 509-528.	2.4	67
103	Iodine chemistry in the water column of the Chesapeake Bay: Evidence for organic iodine forms. Estuarine, Coastal and Shelf Science, 1991, 32, 267-279.	2.1	66
104	Biogeochemistry of Fe(II) oxidation in a photosynthetic microbial mat: Implications for Precambrian Fe(II) oxidation. Geochimica Et Cosmochimica Acta, 2007, 71, 4629-4643.	3.9	66
105	Root-Induced Cycling of Lead in Salt Marsh Sediments. Environmental Science & Technology, 2005, 39, 2080-2086.	10.0	63
106	Hydrothermal Fe cycling and deep ocean organic carbon scavenging: Model-based evidence for significant POC supply to seafloor sediments. Earth and Planetary Science Letters, 2015, 419, 143-153.	4.4	63
107	Voltammetric characterization of iron(II) sulfide complexes in laboratory solutions and in marine waters and porewaters. Environmental Science & Technology, 1993, 27, 1154-1163.	10.0	62
108	Processes controlling the distribution and cycling of manganese in the oxygen minimum zone of the Arabian Sea. Deep-Sea Research Part II: Topical Studies in Oceanography, 2000, 47, 1541-1561.	1.4	62



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109	The roles of anoxia, H <sub>2</sub> S, and storm events in fish kills of dead-end canals of Delaware inland bays. <i>Estuaries and Coasts</i> , 2004, 27, 551-560.	1.7	61
110	The kinetics of iodide oxidation by the manganese oxide mineral birnessite. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2850-2861.	3.9	61
111	Determination of metal-organic complexation in natural waters by SWASV with pseudopolarograms. <i>Electroanalysis</i> , 1995, 7, 166-177.	2.9	60
112	Iron speciation in the Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2000, 47, 1517-1539.	1.4	60
113	Title is missing!. <i>Aquatic Geochemistry</i> , 2002, 8, 15-36.	1.3	59
114	Processes controlling the redox budget for the oxic/anoxic water column of the Black Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1817-1841.	1.4	59
115	Iodine speciation in chesapeake bay waters. <i>Marine Chemistry</i> , 1988, 24, 315-325.	2.3	57
116	Sub-surface iodide maxima: evidence for biologically catalyzed redox cycling in Arabian Sea OMZ during the SW intermonsoon. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 1391-1409.	1.4	56
117	Oxidation of Cysteine and Glutathione by Soluble Polymeric MnO <sub>2</sub> . <i>Environmental Science &amp; Technology</i> , 2003, 37, 3332-3338.	10.0	56
118	Oxidation of synthesized sub-micron pyrite (FeS <sub>2</sub> ) in seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 144, 96-108.	3.9	56
119	Trace metal solubility in salt marsh sediments contaminated with sewage sludge. <i>Estuarine, Coastal and Shelf Science</i> , 1986, 23, 477-498.	2.1	55
120	The dynamic response of optical oxygen sensors and voltammetric electrodes to temporal changes in dissolved oxygen concentrations. <i>Analytica Chimica Acta</i> , 2004, 518, 93-100.	5.4	55
121	Morphology of biogenic iron oxides records microbial physiology and environmental conditions: toward interpreting iron microfossils. <i>Geobiology</i> , 2013, 11, 457-471.	2.4	53
122	Kinetics of Fe(III) and Mn(IV) reduction by the Black Sea strain of <i>Shewanella putrefaciens</i> using in situ solid state voltammetric Au/Hg electrodes. <i>Marine Chemistry</i> , 2000, 70, 171-180.	2.3	52
123	Distribution and size fractionation of elemental sulfur in aqueous environments: The Chesapeake Bay and Mid-Atlantic Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 334-348.	3.9	51
124	A kinetic approach to assess the strengths of ligands bound to soluble Mn(III). <i>Marine Chemistry</i> , 2015, 173, 93-99.	2.3	51
125	Revisiting Mn and Fe removal in humic rich estuaries. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 209, 267-283.	3.9	51
126	Voltammetric Microelectrodes for Biocorrosion Studies. <i>Corrosion</i> , 1998, 54, 814-823.	1.1	50



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127	Removal of H <sub>2</sub> S via an iron catalytic cycle and iron sulfide precipitation in the water column of dead end tributaries. <i>Estuarine, Coastal and Shelf Science</i> , 2006, 70, 461-472.	2.1	50
128	Nanoparticle Chemical Composition During New Particle Formation. <i>Aerosol Science and Technology</i> , 2011, 45, 1041-1048.	3.1	50
129	Speciation of manganese in Chesapeake Bay waters by voltammetric methods. <i>Analytica Chimica Acta</i> , 1994, 284, 473-480.	5.4	49
130	In vivo speciation studies and antioxidant properties of bromine in <i>Laminaria digitata</i> reinforce the significance of iodine accumulation for kelps. <i>Journal of Experimental Botany</i> , 2013, 64, 2653-2664.	4.8	49
131	Oxidative and reductive processes contributing to manganese cycling at oxic-anoxic interfaces. <i>Marine Chemistry</i> , 2017, 195, 122-128.	2.3	49
132	The influence of sulfides on soluble organic-Fe(III) in anoxic sediment porewaters. <i>Estuaries and Coasts</i> , 2002, 25, 1088-1096.	1.7	48
133	Spatial and temporal variability of the Black Sea suboxic zone. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1756-1768.	1.4	48
134	Bio-volatilization of polonium: Results from laboratory analyses. <i>Aquatic Geochemistry</i> , 1995, 1, 175-188.	1.3	47
135	Early diagenesis and sulphur speciation in sediments of the Oman Margin, northwestern Arabian Sea. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1997, 44, 1361-1380.	1.4	47
136	The interface between oxic seawater and the anoxic Bannock brine; its sharpness and the consequences for the redox-related cycling of Mn and Ba. <i>Marine Chemistry</i> , 1990, 31, 205-217.	2.3	44
137	Determination of inorganic sulphur speciation with polarographic techniques: Some preliminary results for recent hypersaline anoxic sediments. <i>Marine Geology</i> , 1991, 100, 115-123.	2.1	44
138	Formation of Zn- and Fe-sulfides near hydrothermal vents at the Eastern Lau Spreading Center: implications for sulfide bioavailability to chemoautotrophs. <i>Geochemical Transactions</i> , 2008, 9, 6.	0.7	44
139	Iodine chemistry in deep anoxic basins and overlying waters of the Mediterranean Sea. <i>Marine Chemistry</i> , 1990, 31, 153-170.	2.3	43
140	Bioavailability of iron to <i>Trichodesmium</i> colonies in the western subtropical Atlantic Ocean. <i>Limnology and Oceanography</i> , 2003, 48, 2250-2255.	3.1	43
141	What controls dissolved iron concentrations in the world ocean? â€” a comment. <i>Marine Chemistry</i> , 1997, 57, 173-179.	2.3	42
142	Comparison of pyrite (FeS <sub>2</sub> ) synthesis mechanisms to reproduce natural FeS <sub>2</sub> nanoparticles found at hydrothermal vents. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 120, 447-458.	3.9	41
143	The uptake and excretion of partially oxidized sulfur expands the repertoire of energy resources metabolized by hydrothermal vent symbioses. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2015, 282, 20142811.	2.6	41
144	Comparative diagenesis at three sites on the Canadian continental margin. <i>Journal of Marine Research</i> , 1998, 56, 1259-1284.	0.3	41

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145	Heavy metal distribution in Newark Bay sediments. <i>Marine Pollution Bulletin</i> , 1981, 12, 244-250.	5.0	40
146	Documenting the suboxic zone of the Black Sea via high-resolution real-time redox profiling. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 1740-1755.	1.4	40
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