John R Reinfelder

List of Publications by Year
in descending order

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99 papers	7,260 citations	66343 42 h-index	56724 83 g-index
102 all docs	102 docs citations	102 times ranked	6642 citing authors

#	Article	IF	Citations
1	Uptake, Toxicity, and Trophic Transfer of Mercury in a Coastal Diatom. Environmental Science & Technology, 1996, 30, 1835-1845.	10.0	571
2	The evolutionary inheritance of elemental stoichiometry in marine phytoplankton. Nature, 2003, 425, 291-294.	27.8	481
3	Zinc and carbon co-limitation of marine phytoplankton. Nature, 1994, 369, 740-742.	27.8	462
4	Carbon Concentrating Mechanisms in Eukaryotic Marine Phytoplankton. Annual Review of Marine Science, 2011, 3, 291-315.	11.6	445
5	The Assimilation of Elements Ingested by Marine Copepods. Science, 1991, 251, 794-796.	12.6	347
6	Bioaccumulation of mercury and methylmercury. Water, Air, and Soil Pollution, 1995, 80, 915-921.	2.4	346
7	Unicellular C4 photosynthesis in a marine diatom. Nature, 2000, 407, 996-999.	27.8	327
8	Trace element trophic transfer in aquatic organisms: A critique of the kinetic model approach. Science of the Total Environment, 1998, 219, 117-135.	8.0	317
9	Determination of selenium bioavailability to a benthic bivalve from particulate and solute pathways. Environmental Science & Technology, 1992, 26, 485-491.	10.0	237
10	Role of the Bacterial Organomercury Lyase (MerB) in Controlling Methylmercury Accumulation in Mercury-Contaminated Natural Waters. Environmental Science & Technology, 2004, 38, 4304-4311.	10.0	178
11	The Role of the C4 Pathway in Carbon Accumulation and Fixation in a Marine Diatom. Plant Physiology, 2004, 135, 2106-2111.	4.8	161
12	Active uptake of bicarbonate by diatoms. Nature, 1997, 390, 243-244.	27.8	155
13	Assimilation efficiencies and turnover rates of trace elements in marine bivalves: a comparison of oysters, clams and mussels. Marine Biology, 1997, 129, 443-452.	1.5	133
14	Mercury Methylation by the Methanogen Methanospirillum hungatei. Applied and Environmental Microbiology, 2013, 79, 6325-6330.	3.1	119
15	Retention of elements absorbed by juvenile fish (Menidia menidia, Menidia beryllina) from zooplankton prey. Limnology and Oceanography, 1994, 39, 1783-1789.	3.1	103
16	Irradiance and the elemental stoichiometry of marine phytoplankton. Limnology and Oceanography, 2006, 51, 2690-2701.	3.1	100
17	Anaerobic oxidation of Hg(0) and methylmercury formation by Desulfovibrio desulfuricans ND132. Geochimica Et Cosmochimica Acta, 2013, 112, 166-177.	3.9	97
18	Bacterial, archaeal, and fungal community responses to acid mine drainage-laden pollution in a rice paddy soil ecosystem. Science of the Total Environment, 2018, 616-617, 107-116.	8.0	93

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19	Atmospheric Concentrations and Deposition of Polycyclic Aromatic Hydrocarbons to the Mid-Atlantic East Coast Region. Environmental Science & Technology, 2005, 39, 5550-5559.	10.0	89
20	Fractionation of Mercury Stable Isotopes during Microbial Methylmercury Production by Iron- and Sulfate-Reducing Bacteria. Environmental Science & Technology, 2016, 50, 8077-8083.	10.0	87
21	Acquisition of inorganic carbon by the marine diatom Thalassiosira weissflogii. Functional Plant Biology, 2002, 29, 301.	2.1	85
22	Localization and Role of Manganese Superoxide Dismutase in a Marine Diatom. Plant Physiology, 2006, 142, 1701-1709.	4.8	82
23	Speciation and Microalgal Bioavailability of Inorganic Silver. Environmental Science & Technology, 1999, 33, 1860-1863.	10.0	78
24	The assimilation ofelements ingested by marine planktonic bivalve larvae. Limnology and Oceanography, 1994, 39, 12-20.	3.1	75
25	Assimilation and regeneration of trace elements by marine copepods. Limnology and Oceanography, 1996, 41, 70-81.	3.1	75
26	Syntrophic pathways for microbial mercury methylation. ISME Journal, 2018, 12, 1826-1835.	9.8	71
27	Atmospheric Concentrations and Deposition of Polychorinated Biphenyls to the Hudson River Estuary. Environmental Science & Technology, 2004, 38, 2568-2573.	10.0	70
28	Copper uptake kinetics in diverse marine phytoplankton. Limnology and Oceanography, 2006, 51, 893-899.	3.1	69
29	Low <scp>CO</scp>₂ results in a rearrangement of carbon metabolism to support C₄ photosynthetic carbon assimilation in <i>Thalassiosira pseudonana</i>. New Phytologist, 2014, 204, 507-520.	7.3	67
30	A transcriptomic (RNA-seq) analysis of genes responsive to both cadmium and arsenic stress in rice root. Science of the Total Environment, 2019, 666, 445-460.	8.0	67
31	Bioaccumulation, Subcellular Distribution, and Trophic Transfer of Copper in a Coastal Marine Diatom. Environmental Science & Technology, 2000, 34, 4931-4935.	10.0	65
32	Microbial stable isotope fractionation of mercury: A synthesis of present understanding and future directions. Chemical Geology, 2013, 336, 13-25.	3.3	63
33	Archaeal nitrification is constrained by copper complexation with organic matter in municipal wastewater treatment plants. ISME Journal, 2020, 14, 335-346.	9.8	62
34	Electrochemical oxidation of pyrite in pH 2 electrolyte. Electrochimica Acta, 2017, 239, 25-35.	5.2	61
35	Extracellular Electron Shuttling Mediated by Soluble <i>c</i>-Type Cytochromes Produced by <i>Shewanella oneidensis</i> MR-1. Environmental Science & Technology, 2020, 54, 10577-10587.	10.0	61
36	Photomicrobial Visible Light-Induced Magnetic Mass Independent Fractionation of Mercury in a Marine Microalga. ACS Earth and Space Chemistry, 2018, 2, 432-440.	2.7	58

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37	Phenanthrene Accumulation Kinetics in Marine Diatoms. Environmental Science & Technology, 2003, 37, 3405-3412.	10.0	55
38	The behavior of chromium and arsenic associated with redox transformation of schwertmannite in AMD environment. Chemosphere, 2019, 222, 945-953.	8.2	54
39	Mercury Isotope Fractionation during the Photochemical Reduction of Hg(II) Coordinated with Organic Ligands. Journal of Physical Chemistry A, 2020, 124, 2842-2853.	2.5	51
40	Oxidation of Hg(0) to Hg(II) by diverse anaerobic bacteria. Chemical Geology, 2014, 363, 334-340.	3.3	50
41	Sulfide-driven arsenic mobilization from arsenopyrite and black shale pyrite. Geochimica Et Cosmochimica Acta, 2008, 72, 5243-5250.	3.9	46
42	Arsenic Transformation and Mobilization from Minerals by the Arsenite Oxidizing Strain WAO. Environmental Science & Technology, 2008, 42, 1423-1429.	10.0	44
43	Assimilation of selenium in the marine copepod Acartia tonsa studied with a radiotracer ratio method. Marine Ecology - Progress Series, 1991, 70, 157-164.	1.9	43
44	Separation of monomethylmercury from estuarine sediments for mercury isotope analysis. Chemical Geology, 2015, 411, 19-25.	3.3	42
45	Fulvic acid induced the liberation of chromium from CrO42â^'-substituted schwertmannite. Chemical Geology, 2017, 475, 52-61.	3.3	40
46	Relative importance of dissolved versus trophic bioaccumulation of copper in marine copepods. Marine Ecology - Progress Series, 2002, 231, 179-186.	1.9	38
47	Reductive dissolution of jarosite by a sulfate reducing bacterial community: Secondary mineralization and microflora development. Science of the Total Environment, 2019, 690, 1100-1109.	8.0	37
48	Comparative physiological and transcriptomic analyses illuminate common mechanisms by which silicon alleviates cadmium and arsenic toxicity in rice seedlings. Journal of Environmental Sciences, 2021, 109, 88-101.	6.1	36
49	Diel variation in mercury stable isotope ratios records photoreduction of PM_{2.5}-bound mercury. Atmospheric Chemistry and Physics, 2019, 19, 315-325.	4.9	34
50	Spatial and temporal distributions of sulfur species in paddy soils affected by acid mine drainage in Dabaoshan sulfide mining area, South China. Geoderma, 2016, 281, 21-29.	5.1	33
51	Release rates of trace elements and protein from decomposing planktonic debris. 2. Copepod carcasses and sediment trap particulate matter. Journal of Marine Research, 1993, 51, 423-442.	0.3	31
52	The Use of a Mercury Biosensor to Evaluate the Bioavailability of Mercury-Thiol Complexes and Mechanisms of Mercury Uptake in Bacteria. PLoS ONE, 2015, 10, e0138333.	2.5	30
53	Carbon dioxide regulation of nitrogen and phosphorus in four species of marine phytoplankton. Marine Ecology - Progress Series, 2012, 466, 57-67.	1.9	30
54	Mercury Speciation, Reactivity, and Bioavailability in a Highly Contaminated Estuary, Berryâ€™s Creek, New Jersey Meadowlands. Environmental Science & Technology, 2007, 41, 8268-8274.	10.0	29

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55	Biological Responses in a Dynamic Buoyant River Plume. Oceanography, 2008, 21, 70-89.	1.0	29
56	Bluefin tuna reveal global patterns of mercury pollution and bioavailability in the world's oceans. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	29
57	Adaptation of chemosynthetic microorganisms to elevated mercury concentrations in deep-sea hydrothermal vents. Limnology and Oceanography, 2009, 54, 41-49.	3.1	27
58	High-resolution LA-ICP-MS mapping of deep-sea polymetallic micronodules and its implications on element mobility. Gondwana Research, 2020, 81, 461-474.	6.0	26
59	Reduction of acid mine drainage by passivation of pyrite surfaces: A review. Science of the Total Environment, 2022, 832, 155116.	8.0	26
60	Co-selection of Mercury and Multiple Antibiotic Resistances in Bacteria Exposed to Mercury in the Fundulus heteroclitus Gut Microbiome. Current Microbiology, 2016, 73, 834-842.	2.2	24
61	Tracking legacy mercury in the Hackensack River estuary using mercury stable isotopes. Journal of Hazardous Materials, 2019, 375, 121-129.	12.4	24
62	Patterns of total mercury and methylmercury bioaccumulation in Antarctic krill (Euphausia superba) along the West Antarctic Peninsula. Science of the Total Environment, 2019, 688, 174-183.	8.0	21
63	Atmospheric Wet Deposition of Total Phosphorus in New Jersey. Water, Air, and Soil Pollution, 2004, 154, 139-150.	2.4	20
64	Metal Concentrations in Organs of the Clam Amiantis umbonella and Their Use in Monitoring Metal Contamination of Coastal Sediments. Water, Air, and Soil Pollution, 2012, 223, 2125-2136.	2.4	20
65	Schwertmannite transformation via direct or indirect electron transfer by a sulfate reducing enrichment culture. Environmental Pollution, 2018, 242, 738-748.	7.5	20
66	Factors Controlling Seasonal Phytoplankton Dynamics in the Delaware River Estuary: an Idealized Model Study. Estuaries and Coasts, 2019, 42, 1839-1857.	2.2	20
67	Thiocyanate-induced labilization of schwertmannite: Impacts and mechanisms. Journal of Environmental Sciences, 2019, 80, 218-228.	6.1	20
68	The effect of aqueous speciation and cellular ligand binding on the biotransformation and bioavailability of methylmercury in mercury-resistant bacteria. Biodegradation, 2016, 27, 29-36.	3.0	19
69	Transformation of cadmium-associated schwertmannite and subsequent element repartitioning behaviors. Environmental Science and Pollution Research, 2019, 26, 617-627.	5.3	19
70	Mercury volatilization from salt marsh sediments. Journal of Geophysical Research, 2009, 114, .	3.3	17
71	Isotopic fingerprints indicate distinct strategies of Fe uptake in rice. Chemical Geology, 2019, 524, 323-328.	3.3	15
72	Tracing the Uptake of Hg(II) in an Iron-Reducing Bacterium Using Mercury Stable Isotopes. Environmental Science and Technology Letters, 2020, 7, 573-578.	8.7	15

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73	Mercury Emissions from Cement-Stabilized Dredged Material. Environmental Science & Technology, 2005, 39, 8185-8190.	10.0	14
74	Long-term Stability of Trace Element Concentrations in a Spontaneously Vegetated Urban Brownfield With Anthropogenic Soils. Soil Science, 2017, 182, 69-81.	0.9	14
75	Variation in the mercury concentration and stable isotope composition of atmospheric total suspended particles in Beijing, China. Journal of Hazardous Materials, 2020, 383, 121131.	12.4	12
76	Microbial reduction of As(V)-loaded Schwertmannite by Desulfosporosinus meridiei. Science of the Total Environment, 2021, 764, 144279.	8.0	12
77	Relative Importance of Burrow Sediment and Porewater to the Accumulation of Trace Metals in the Clam Amiantis umbonella. Archives of Environmental Contamination and Toxicology, 2013, 65, 89-97.	4.1	11
78	Phytoplankton productivity in a turbid buoyant coastal plume. Continental Shelf Research, 2013, 63, S138-S148.	1.8	11
79	Elucidation of desferrioxamine B on the liberation of chromium from schwertmannite. Chemical Geology, 2019, 513, 133-142.	3.3	11
80	Production of methylmercury by methanogens in mercury contaminated estuarine sediments. FEMS Microbiology Letters, 2020, 367, .	1.8	11
81	The influence of river plume dynamics on trace metal accumulation in calanoid copepods. Limnology and Oceanography, 2010, 55, 2487-2502.	3.1	10
82	The Microbial Community of a Black Shale Pyrite Biofilm and its Implications for Pyrite Weathering. Geomicrobiology Journal, 2012, 29, 186-193.	2.0	10
83	Spatiotemporal Variations in Dissolved Elemental Mercury in the River-Dominated and Monsoon-Influenced East China Sea: Drivers, Budgets, and Implications. Environmental Science & Technology, 2020, 54, 3988-3995.	10.0	10
84	Mass-Independent Fractionation of Mercury Isotopes during Photoreduction of Soot Particle Bound Hg(II). Environmental Science & Technology, 2021, 55, 13783-13791.	10.0	10
85	Effect of Cu(II) on the stability of oxyanion-substituted schwertmannite. Environmental Science and Pollution Research, 2018, 25, 15492-15506.	5.3	9
86	Enrichment of calcium in sea spray aerosol in the Arctic summer atmosphere. Marine Chemistry, 2020, 227, 103898.	2.3	8
87	Growth limits on phytoplankton. Nature, 1995, 373, 28-28.	27.8	7
88	Metabolic responses to subacute toxicity of trace metals in a marine microalga (Thalassiosira) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	4.3	6
89	Rapid Attainment of Isotopic Equilibrium after Mercury Reduction by Ferrous Iron Minerals and Isotopic Exchange between Hg(II) and Hg(0). ACS Earth and Space Chemistry, 2021, 5, 1384-1394.	2.7	5
90	Photosynthesis in a marine diatom. Nature, 2001, 412, 41-41.	27.8	4

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91	METABOLIC RESPONSES TO SUBACUTE TOXICITY OF TRACE METALS IN A MARINE MICROALGA (THALASSIOSIRA WEISSFLOGII)MEASURED BY CALORESPIROMETRY. Environmental Toxicology and Chemistry, 2000, 19, 448.	4.3	4
92	Ancient algae crossed a threshold. Nature, 2013, 500, 532-533.	27.8	3
93	Coastal Ocean Observatories Enable Biological Investigations in a Buoyant Plume. , 2006, , .		2
94	Improved extraction of acid-insoluble monosulfide minerals by stannous chloride reduction and its application to the separation of mono- and disulfide minerals in the presence of ferric iron. Science of the Total Environment, 2021, 785, 147367.	8.0	2
95	Opening a Window to the Sea: The Potential of the Ocean Observatories for Education. , 2006, , .		1
96	Size Scaling of Contaminant Trace Metal Accumulation in the Infaunal Marine Clam Amiantis umbonella. Archives of Environmental Contamination and Toxicology, 2019, 77, 368-376.	4.1	1
97	Grass Shrimp (<i>Palaemonetes pugio</i>) as a Trophic Link for Methylmercury Accumulation in Urban Salt Marshes. Environmental Science & Technology, 2022, , .	10.0	1
98	2003 ASLO AWARD NOMINATIONS. Limnology and Oceanography Bulletin, 2002, 11, 53-54.	0.4	0
99	2004 ASLO AWARD NOMINATIONS. Limnology and Oceanography Bulletin, 2003, 12, 66-66.	0.4	0