

John R Reinfelder

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4185267/publications.pdf>

Version: 2024-02-01

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	Reduction of acid mine drainage by passivation of pyrite surfaces: A review. <i>Science of the Total Environment</i> , 2022, 832, 155116.	8.0	26
2	Grass Shrimp (<i>Palaemonetes pugio</i>) as a Trophic Link for Methylmercury Accumulation in Urban Salt Marshes. <i>Environmental Science & Technology</i> , 2022, , .	10.0	1
3	Microbial reduction of As(V)-loaded Schwertmannite by <i>Desulfosporosinus meridiei</i> . <i>Science of the Total Environment</i> , 2021, 764, 144279.	8.0	12
4	Rapid Attainment of Isotopic Equilibrium after Mercury Reduction by Ferrous Iron Minerals and Isotopic Exchange between Hg(II) and Hg(0). <i>ACS Earth and Space Chemistry</i> , 2021, 5, 1384-1394.	2.7	5
5	Bluefin tuna reveal global patterns of mercury pollution and bioavailability in the world's oceans. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	29
6	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. <i>Science of the Total Environment</i> , 2021, 785, 147367.	8.0	2
7	Comparative physiological and transcriptomic analyses illuminate common mechanisms by which silicon alleviates cadmium and arsenic toxicity in rice seedlings. <i>Journal of Environmental Sciences</i> , 2021, 109, 88-101.	6.1	36
8	Mass-Independent Fractionation of Mercury Isotopes during Photoreduction of Soot Particle Bound Hg(II). <i>Environmental Science & Technology</i> , 2021, 55, 13783-13791.	10.0	10
9	Variation in the mercury concentration and stable isotope composition of atmospheric total suspended particles in Beijing, China. <i>Journal of Hazardous Materials</i> , 2020, 383, 121131.	12.4	12
10	Archaeal nitrification is constrained by copper complexation with organic matter in municipal wastewater treatment plants. <i>ISME Journal</i> , 2020, 14, 335-346.	9.8	62
11	Enrichment of calcium in sea spray aerosol in the Arctic summer atmosphere. <i>Marine Chemistry</i> , 2020, 227, 103898.	2.3	8
12	Extracellular Electron Shuttling Mediated by Soluble <i>c</i> -Type Cytochromes Produced by <i>Shewanella oneidensis</i> MR-1. <i>Environmental Science & Technology</i> , 2020, 54, 10577-10587.	10.0	61
13	Production of methylmercury by methanogens in mercury contaminated estuarine sediments. <i>FEMS Microbiology Letters</i> , 2020, 367, .	1.8	11
14	Mercury Isotope Fractionation during the Photochemical Reduction of Hg(II) Coordinated with Organic Ligands. <i>Journal of Physical Chemistry A</i> , 2020, 124, 2842-2853.	2.5	51
15	Spatiotemporal Variations in Dissolved Elemental Mercury in the River-Dominated and Monsoon-Influenced East China Sea: Drivers, Budgets, and Implications. <i>Environmental Science & Technology</i> , 2020, 54, 3988-3995.	10.0	10
16	Tracing the Uptake of Hg(II) in an Iron-Reducing Bacterium Using Mercury Stable Isotopes. <i>Environmental Science and Technology Letters</i> , 2020, 7, 573-578.	8.7	15
17	High-resolution LA-ICP-MS mapping of deep-sea polymetallic micronodules and its implications on element mobility. <i>Gondwana Research</i> , 2020, 81, 461-474.	6.0	26
18	Size Scaling of Contaminant Trace Metal Accumulation in the Infaunal Marine Clam <i>Amiantis umbonella</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2019, 77, 368-376.	4.1	1

#	ARTICLE	IF	CITATIONS
19	Reductive dissolution of jarosite by a sulfate reducing bacterial community: Secondary mineralization and microflora development. <i>Science of the Total Environment</i> , 2019, 690, 1100-1109.	8.0	37
20	Isotopic fingerprints indicate distinct strategies of Fe uptake in rice. <i>Chemical Geology</i> , 2019, 524, 323-328.	3.3	15
21	Factors Controlling Seasonal Phytoplankton Dynamics in the Delaware River Estuary: an Idealized Model Study. <i>Estuaries and Coasts</i> , 2019, 42, 1839-1857.	2.2	20
22	Diel variation in mercury stable isotope ratios records photoreduction of PM<sub>2.5</sub&-bound mercury. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 315-325.	4.9	34
23	The behavior of chromium and arsenic associated with redox transformation of schwertmannite in AMD environment. <i>Chemosphere</i> , 2019, 222, 945-953.	8.2	54
24	Patterns of total mercury and methylmercury bioaccumulation in Antarctic krill (<i>Euphausia superba</i>) along the West Antarctic Peninsula. <i>Science of the Total Environment</i> , 2019, 688, 174-183.	8.0	21
25	Tracking legacy mercury in the Hackensack River estuary using mercury stable isotopes. <i>Journal of Hazardous Materials</i> , 2019, 375, 121-129.	12.4	24
26	Elucidation of desferrioxamine B on the liberation of chromium from schwertmannite. <i>Chemical Geology</i> , 2019, 513, 133-142.	3.3	11
27	A transcriptomic (RNA-seq) analysis of genes responsive to both cadmium and arsenic stress in rice root. <i>Science of the Total Environment</i> , 2019, 666, 445-460.	8.0	67
28	Thiocyanate-induced labilization of schwertmannite: Impacts and mechanisms. <i>Journal of Environmental Sciences</i> , 2019, 80, 218-228.	6.1	20
29	Transformation of cadmium-associated schwertmannite and subsequent element repartitioning behaviors. <i>Environmental Science and Pollution Research</i> , 2019, 26, 617-627.	5.3	19
30	Effect of Cu(II) on the stability of oxyanion-substituted schwertmannite. <i>Environmental Science and Pollution Research</i> , 2018, 25, 15492-15506.	5.3	9
31	Syntrophic pathways for microbial mercury methylation. <i>ISME Journal</i> , 2018, 12, 1826-1835.	9.8	71
32	Photomicrobial Visible Light-Induced Magnetic Mass Independent Fractionation of Mercury in a Marine Microalga. <i>ACS Earth and Space Chemistry</i> , 2018, 2, 432-440.	2.7	58
33	Bacterial, archaeal, and fungal community responses to acid mine drainage-laden pollution in a rice paddy soil ecosystem. <i>Science of the Total Environment</i> , 2018, 616-617, 107-116.	8.0	93
34	Schwertmannite transformation via direct or indirect electron transfer by a sulfate reducing enrichment culture. <i>Environmental Pollution</i> , 2018, 242, 738-748.	7.5	20
35	Electrochemical oxidation of pyrite in pH 2 electrolyte. <i>Electrochimica Acta</i> , 2017, 239, 25-35.	5.2	61
36	Long-term Stability of Trace Element Concentrations in a Spontaneously Vegetated Urban Brownfield With Anthropogenic Soils. <i>Soil Science</i> , 2017, 182, 69-81.	0.9	14

#	ARTICLE	IF	CITATIONS
37	Fulvic acid induced the liberation of chromium from CrO ₄ ²⁻ -substituted schwertmannite. <i>Chemical Geology</i> , 2017, 475, 52-61.	3.3	40
38	Fractionation of Mercury Stable Isotopes during Microbial Methylmercury Production by Iron- and Sulfate-Reducing Bacteria. <i>Environmental Science & Technology</i> , 2016, 50, 8077-8083.	10.0	87
39	Spatial and temporal distributions of sulfur species in paddy soils affected by acid mine drainage in Dabaoshan sulfide mining area, South China. <i>Geoderma</i> , 2016, 281, 21-29.	5.1	33
40	Co-selection of Mercury and Multiple Antibiotic Resistances in Bacteria Exposed to Mercury in the <i>Fundulus heteroclitus</i> Gut Microbiome. <i>Current Microbiology</i> , 2016, 73, 834-842.	2.2	24
41	The effect of aqueous speciation and cellular ligand binding on the biotransformation and bioavailability of methylmercury in mercury-resistant bacteria. <i>Biodegradation</i> , 2016, 27, 29-36.	3.0	19
42	Separation of monomethylmercury from estuarine sediments for mercury isotope analysis. <i>Chemical Geology</i> , 2015, 411, 19-25.	3.3	42
43	The Use of a Mercury Biosensor to Evaluate the Bioavailability of Mercury-Thiol Complexes and Mechanisms of Mercury Uptake in Bacteria. <i>PLoS ONE</i> , 2015, 10, e0138333.	2.5	30
44	Oxidation of Hg(0) to Hg(II) by diverse anaerobic bacteria. <i>Chemical Geology</i> , 2014, 363, 334-340.	3.3	50
45	Low $\delta^{13}C$ results in a rearrangement of carbon metabolism to support C ₄ photosynthetic carbon assimilation in <i>Thalassiosira pseudonana</i> . <i>New Phytologist</i> , 2014, 204, 507-520.	7.3	67
46	Relative Importance of Burrow Sediment and Porewater to the Accumulation of Trace Metals in the Clam <i>Amiantis umbonella</i> . <i>Archives of Environmental Contamination and Toxicology</i> , 2013, 65, 89-97.	4.1	11
47	Ancient algae crossed a threshold. <i>Nature</i> , 2013, 500, 532-533.	27.8	3
48	Anaerobic oxidation of Hg(0) and methylmercury formation by <i>Desulfovibrio desulfuricans</i> ND132. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 112, 166-177.	3.9	97
49	Mercury Methylation by the Methanogen <i>Methanospirillum hungatei</i> . <i>Applied and Environmental Microbiology</i> , 2013, 79, 6325-6330.	3.1	119
50	Phytoplankton productivity in a turbid buoyant coastal plume. <i>Continental Shelf Research</i> , 2013, 63, S138-S148.	1.8	11
51	Microbial stable isotope fractionation of mercury: A synthesis of present understanding and future directions. <i>Chemical Geology</i> , 2013, 336, 13-25.	3.3	63
52	The Microbial Community of a Black Shale Pyrite Biofilm and its Implications for Pyrite Weathering. <i>Geomicrobiology Journal</i> , 2012, 29, 186-193.	2.0	10
53	Metal Concentrations in Organs of the Clam <i>Amiantis umbonella</i> and Their Use in Monitoring Metal Contamination of Coastal Sediments. <i>Water, Air, and Soil Pollution</i> , 2012, 223, 2125-2136.	2.4	20
54	Carbon dioxide regulation of nitrogen and phosphorus in four species of marine phytoplankton. <i>Marine Ecology - Progress Series</i> , 2012, 466, 57-67.	1.9	30

#	ARTICLE	IF	CITATIONS
55	Carbon Concentrating Mechanisms in Eukaryotic Marine Phytoplankton. <i>Annual Review of Marine Science</i> , 2011, 3, 291-315.	11.6	445
56	The influence of river plume dynamics on trace metal accumulation in calanoid copepods. <i>Limnology and Oceanography</i> , 2010, 55, 2487-2502.	3.1	10
57	Adaptation of chemosynthetic microorganisms to elevated mercury concentrations in deep-sea hydrothermal vents. <i>Limnology and Oceanography</i> , 2009, 54, 41-49.	3.1	27
58	Mercury volatilization from salt marsh sediments. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	17
59	Sulfide-driven arsenic mobilization from arsenopyrite and black shale pyrite. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 5243-5250.	3.9	46
60	Arsenic Transformation and Mobilization from Minerals by the Arsenite Oxidizing Strain WAO. <i>Environmental Science & Technology</i> , 2008, 42, 1423-1429.	10.0	44
61	Biological Responses in a Dynamic Buoyant River Plume. <i>Oceanography</i> , 2008, 21, 70-89.	1.0	29
62	Mercury Speciation, Reactivity, and Bioavailability in a Highly Contaminated Estuary, Berry's Creek, New Jersey Meadowlands. <i>Environmental Science & Technology</i> , 2007, 41, 8268-8274.	10.0	29
63	Localization and Role of Manganese Superoxide Dismutase in a Marine Diatom. <i>Plant Physiology</i> , 2006, 142, 1701-1709.	4.8	82
64	Irradiance and the elemental stoichiometry of marine phytoplankton. <i>Limnology and Oceanography</i> , 2006, 51, 2690-2701.	3.1	100
65	Copper uptake kinetics in diverse marine phytoplankton. <i>Limnology and Oceanography</i> , 2006, 51, 893-899.	3.1	69
66	Opening a Window to the Sea: The Potential of the Ocean Observatories for Education. , 2006, , .		1
67	Coastal Ocean Observatories Enable Biological Investigations in a Buoyant Plume. , 2006, , .		2
68	Atmospheric Concentrations and Deposition of Polycyclic Aromatic Hydrocarbons to the Mid-Atlantic East Coast Region. <i>Environmental Science & Technology</i> , 2005, 39, 5550-5559.	10.0	89
69	Mercury Emissions from Cement-Stabilized Dredged Material. <i>Environmental Science & Technology</i> , 2005, 39, 8185-8190.	10.0	14
70	The Role of the C4 Pathway in Carbon Accumulation and Fixation in a Marine Diatom. <i>Plant Physiology</i> , 2004, 135, 2106-2111.	4.8	161
71	Atmospheric Wet Deposition of Total Phosphorus in New Jersey. <i>Water, Air, and Soil Pollution</i> , 2004, 154, 139-150.	2.4	20
72	Atmospheric Concentrations and Deposition of Polychlorinated Biphenyls to the Hudson River Estuary. <i>Environmental Science & Technology</i> , 2004, 38, 2568-2573.	10.0	70

#	ARTICLE	IF	CITATIONS
73	Role of the Bacterial Organomercury Lyase (MerB) in Controlling Methylmercury Accumulation in Mercury-Contaminated Natural Waters. <i>Environmental Science & Technology</i> , 2004, 38, 4304-4311.	10.0	178
74	The evolutionary inheritance of elemental stoichiometry in marine phytoplankton. <i>Nature</i> , 2003, 425, 291-294.	27.8	481
75	Phenanthrene Accumulation Kinetics in Marine Diatoms. <i>Environmental Science & Technology</i> , 2003, 37, 3405-3412.	10.0	55
76	2004 ASLO AWARD NOMINATIONS. <i>Limnology and Oceanography Bulletin</i> , 2003, 12, 66-66.	0.4	0
77	Relative importance of dissolved versus trophic bioaccumulation of copper in marine copepods. <i>Marine Ecology - Progress Series</i> , 2002, 231, 179-186.	1.9	38
78	2003 ASLO AWARD NOMINATIONS. <i>Limnology and Oceanography Bulletin</i> , 2002, 11, 53-54.	0.4	0
79	Acquisition of inorganic carbon by the marine diatom <i>Thalassiosira weissflogii</i> . <i>Functional Plant Biology</i> , 2002, 29, 301.	2.1	85
80	Photosynthesis in a marine diatom. <i>Nature</i> , 2001, 412, 41-41.	27.8	4
81	Metabolic responses to subacute toxicity of trace metals in a marine microalga (<i>Thalassiosira</i>) Tj ETQq1 1 0.784314 rBT /Overlock 10	4.3	6
82	Unicellular C4 photosynthesis in a marine diatom. <i>Nature</i> , 2000, 407, 996-999.	27.8	327
83	Bioaccumulation, Subcellular Distribution, and Trophic Transfer of Copper in a Coastal Marine Diatom. <i>Environmental Science & Technology</i> , 2000, 34, 4931-4935.	10.0	65
84	METABOLIC RESPONSES TO SUBACUTE TOXICITY OF TRACE METALS IN A MARINE MICROALGA (THALASSIOSIRA WEISSFLOGII) MEASURED BY CALORESPIROMETRY. <i>Environmental Toxicology and Chemistry</i> , 2000, 19, 448.	4.3	4
85	Speciation and Microalgal Bioavailability of Inorganic Silver. <i>Environmental Science & Technology</i> , 1999, 33, 1860-1863.	10.0	78
86	Trace element trophic transfer in aquatic organisms: A critique of the kinetic model approach. <i>Science of the Total Environment</i> , 1998, 219, 117-135.	8.0	317
87	Active uptake of bicarbonate by diatoms. <i>Nature</i> , 1997, 390, 243-244.	27.8	155
88	Assimilation efficiencies and turnover rates of trace elements in marine bivalves: a comparison of oysters, clams and mussels. <i>Marine Biology</i> , 1997, 129, 443-452.	1.5	133
89	Uptake, Toxicity, and Trophic Transfer of Mercury in a Coastal Diatom. <i>Environmental Science & Technology</i> , 1996, 30, 1835-1845.	10.0	571
90	Assimilation and regeneration of trace elements by marine copepods. <i>Limnology and Oceanography</i> , 1996, 41, 70-81.	3.1	75

#	ARTICLE	IF	CITATIONS
91	Bioaccumulation of mercury and methylmercury. <i>Water, Air, and Soil Pollution</i> , 1995, 80, 915-921.	2.4	346
92	Growth limits on phytoplankton. <i>Nature</i> , 1995, 373, 28-28.	27.8	7
93	Zinc and carbon co-limitation of marine phytoplankton. <i>Nature</i> , 1994, 369, 740-742.	27.8	462
94	Retention of elements absorbed by juvenile fish (<i>Menidia menidia</i> , <i>Menidia beryllina</i>) from zooplankton prey. <i>Limnology and Oceanography</i> , 1994, 39, 1783-1789.	3.1	103
95	The assimilation of elements ingested by marine planktonic bivalve larvae. <i>Limnology and Oceanography</i> , 1994, 39, 12-20.	3.1	75
96	Release rates of trace elements and protein from decomposing planktonic debris. 2. Copepod carcasses and sediment trap particulate matter. <i>Journal of Marine Research</i> , 1993, 51, 423-442.	0.3	31
97	Determination of selenium bioavailability to a benthic bivalve from particulate and solute pathways. <i>Environmental Science & Technology</i> , 1992, 26, 485-491.	10.0	237
98	The Assimilation of Elements Ingested by Marine Copepods. <i>Science</i> , 1991, 251, 794-796.	12.6	347
99	Assimilation of selenium in the marine copepod <i>Acartia tonsa</i> studied with a radiotracer ratio method. <i>Marine Ecology - Progress Series</i> , 1991, 70, 157-164.	1.9	43