

Andrew L Rose

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7690245/publications.pdf>

Version: 2024-02-01

75
papers

4,236
citations

81743

39
h-index

110170

64
g-index

75
all docs

75
docs citations

75
times ranked

3746
citing authors

#	ARTICLE	IF	CITATIONS
1	Methods for reactive oxygen species (ROS) detection in aqueous environments. <i>Aquatic Sciences</i> , 2012, 74, 683-734.	0.6	330
2	Kinetic Model for Fe(II) Oxidation in Seawater in the Absence and Presence of Natural Organic Matter. <i>Environmental Science & Technology</i> , 2002, 36, 433-444.	4.6	297
3	Kinetics of iron complexation by dissolved natural organic matter in coastal waters. <i>Marine Chemistry</i> , 2003, 84, 85-103.	0.9	234
4	Chemiluminescence of Luminol in the Presence of Iron(II) and Oxygen: A Oxidation Mechanism and Implications for Its Analytical Use. <i>Analytical Chemistry</i> , 2001, 73, 5909-5920.	3.2	161
5	Reduction of Organically Complexed Ferric Iron by Superoxide in a Simulated Natural Water. <i>Environmental Science & Technology</i> , 2005, 39, 2645-2650.	4.6	157
6	Kinetics of Fe(III) precipitation in aqueous solutions at pH 6.0–9.5 and 25°C. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 640-650.	1.6	144
7	Photochemical production of superoxide and hydrogen peroxide from natural organic matter. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 4310-4320.	1.6	142
8	Use of Superoxide as an Electron Shuttle for Iron Acquisition by the Marine Cyanobacterium <i>Lyngbya majuscula</i> . <i>Environmental Science & Technology</i> , 2005, 39, 3708-3715.	4.6	136
9	Effect of Dissolved Natural Organic Matter on the Kinetics of Ferrous Iron Oxygenation in Seawater. <i>Environmental Science & Technology</i> , 2003, 37, 4877-4886.	4.6	132
10	Effects of pH, Chloride, and Bicarbonate on Cu(I) Oxidation Kinetics at Circumneutral pH. <i>Environmental Science & Technology</i> , 2012, 46, 1527-1535.	4.6	119
11	Kinetics of Hydrolysis and Precipitation of Ferric Iron in Seawater. <i>Environmental Science & Technology</i> , 2003, 37, 3897-3903.	4.6	99
12	Hydroxyl Radical Production by H ₂ O ₂ -Mediated Oxidation of Fe(II) Complexed by Suwannee River Fulvic Acid Under Circumneutral Freshwater Conditions. <i>Environmental Science & Technology</i> , 2013, 47, 829-835.	4.6	95
13	Measurement and Implications of Nonphotochemically Generated Superoxide in the Equatorial Pacific Ocean. <i>Environmental Science & Technology</i> , 2008, 42, 2387-2393.	4.6	86
14	Kinetics of Cu(II) Reduction by Natural Organic Matter. <i>Journal of Physical Chemistry A</i> , 2012, 116, 6590-6599.	1.1	86
15	Determination of Superoxide in Seawater Using 2-Methyl-6-(4-methoxyphenyl)-3,7-dihydroimidazo[1,2-a]pyrazin-3(7 <i>H</i>)-one Chemiluminescence. <i>Analytical Chemistry</i> , 2008, 80, 1215-1227.	3.2	82
16	Role of superoxide in the photochemical reduction of iron in seawater. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3869-3882.	1.6	80
17	Importance of Iron Complexation for Fenton-Mediated Hydroxyl Radical Production at Circumneutral pH. <i>Frontiers in Marine Science</i> , 2016, 3, .	1.2	73
18	Predicting iron speciation in coastal waters from the kinetics of sunlight-mediated iron redox cycling. <i>Aquatic Sciences</i> , 2003, 65, 375-383.	0.6	67

#	ARTICLE	IF	CITATIONS
19	The FeL model of iron acquisition: Nondissociative reduction of ferric complexes in the marine environment. <i>Limnology and Oceanography</i> , 2006, 51, 1744-1754.	1.6	67
20	High-temperature, point-focus, pressurised gas-phase solar receivers: A comprehensive review. <i>Energy Conversion and Management</i> , 2019, 185, 678-717.	4.4	63
21	Superoxide-Mediated Dissolution of Amorphous Ferric Oxyhydroxide in Seawater. <i>Environmental Science & Technology</i> , 2006, 40, 880-887.	4.6	61
22	Effect of Light on Iron Uptake by the Freshwater Cyanobacterium <i>Microcystis aeruginosa</i> . <i>Environmental Science & Technology</i> , 2011, 45, 1391-1398.	4.6	59
23	Mechanism and Kinetics of Dark Iron Redox Transformations in Previously Photolyzed Acidic Natural Organic Matter Solutions. <i>Environmental Science & Technology</i> , 2013, 47, 1861-1869.	4.6	59
24	Superoxide Mediated Reduction of Organically Complexed Iron(III): A Comparison of Non-Dissociative and Dissociative Reduction Pathways. <i>Environmental Science & Technology</i> , 2007, 41, 3205-3212.	4.6	57
25	Production of Reactive Oxygen Species on Photolysis of Dilute Aqueous Quinone Solutions. <i>Photochemistry and Photobiology</i> , 2007, 83, 904-913.	1.3	56
26	Effect of Fe(II) and Fe(III) Transformation Kinetics on Iron Acquisition by a Toxic Strain of <i>Microcystis aeruginosa</i> . <i>Environmental Science & Technology</i> , 2010, 44, 1980-1986.	4.6	55
27	The Influence of Extracellular Superoxide on Iron Redox Chemistry and Bioavailability to Aquatic Microorganisms. <i>Frontiers in Microbiology</i> , 2012, 3, 124.	1.5	55
28	Sedimentary iron-phosphorus cycling under contrasting redox conditions in a eutrophic estuary. <i>Chemical Geology</i> , 2015, 392, 19-31.	1.4	55
29	New method for the determination of extracellular production of superoxide by marine phytoplankton using the chemiluminescence probes MCLA and redCLA. <i>Limnology and Oceanography: Methods</i> , 2009, 7, 682-692.	1.0	52
30	Impact of natural organic matter on H ₂ O ₂ -mediated oxidation of Fe(II) in a simulated freshwater system. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 2758-2768.	1.6	50
31	Novel application of a fish gill cell line assay to assess ichthyotoxicity of harmful marine microalgae. <i>Harmful Algae</i> , 2011, 10, 366-373.	2.2	50
32	Phthalhydrazide Chemiluminescence Method for Determination of Hydroxyl Radical Production: Modifications and Adaptations for Use in Natural Systems. <i>Analytical Chemistry</i> , 2011, 83, 261-268.	3.2	49
33	Decoupling between Water Column Oxygenation and Benthic Phosphate Dynamics in a Shallow Eutrophic Estuary. <i>Environmental Science & Technology</i> , 2013, 47, 3114-3121.	4.6	46
34	Dynamics of nonphotochemical superoxide production in the Great Barrier Reef lagoon. <i>Limnology and Oceanography</i> , 2010, 55, 1521-1536.	1.6	45
35	Oxygen and Superoxide-Mediated Redox Kinetics of Iron Complexed by Humic Substances in Coastal Seawater. <i>Environmental Science & Technology</i> , 2010, 44, 9337-9342.	4.6	45
36	Effect of divalent cations on the kinetics of Fe(III) complexation by organic ligands in natural waters. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 1335-1349.	1.6	44

#	ARTICLE	IF	CITATIONS
37	Iron uptake by the ichthyotoxic <i>Chattonella marina</i> (Raphidophyceae): impact of superoxide generation ¹ . Journal of Phycology, 2007, 43, 978-991.	1.0	43
38	Manganese and iron release from mangrove porewaters: A significant component of oceanic budgets?. Marine Chemistry, 2016, 184, 43-52.	0.9	42
39	Characteristics of the Freshwater Cyanobacterium <i>Microcystis aeruginosa</i> Grown in Iron-Limited Continuous Culture. Applied and Environmental Microbiology, 2012, 78, 1574-1583.	1.4	41
40	Superoxide-mediated Fe(II) formation from organically complexed Fe(III) in coastal waters. Geochimica Et Cosmochimica Acta, 2008, 72, 6079-6089.	1.6	40
41	Reactive oxygen species in the world ocean and their impacts on marine ecosystems. Redox Biology, 2022, 52, 102285.	3.9	37
42	Impact of Natural Organic Matter on H ₂ O ₂ -Mediated Oxidation of Fe(II) in Coastal Seawaters. Environmental Science & Technology, 2012, 46, 11078-11085.	4.6	35
43	Iron Redox Transformations in Continuously Photolyzed Acidic Solutions Containing Natural Organic Matter: Kinetic and Mechanistic Insights. Environmental Science & Technology, 2013, 47, 9190-9197.	4.6	35
44	Influence of phosphate on the oxidation kinetics of nanomolar Fe(II) in aqueous solution at circumneutral pH. Geochimica Et Cosmochimica Acta, 2011, 75, 4601-4610.	1.6	30
45	Resolving Early Stages of Homogeneous Iron(III) Oxyhydroxide Formation from Iron(III) Nitrate Solutions at pH 3 Using Time-Resolved SAXS. Langmuir, 2014, 30, 3548-3556.	1.6	29
46	An in situ XAS study of ferric iron hydrolysis and precipitation in the presence of perchlorate, nitrate, chloride and sulfate. Geochimica Et Cosmochimica Acta, 2016, 177, 150-169.	1.6	27
47	Reconciling kinetic and equilibrium observations of iron(III) solubility in aqueous solutions with a polymer-based model. Geochimica Et Cosmochimica Acta, 2007, 71, 5605-5619.	1.6	26
48	Sorption of phosphate and silicate alters dissolution kinetics of poorly crystalline iron (oxyhydr)oxide. Chemosphere, 2019, 234, 690-701.	4.2	26
49	Iron Uptake by Toxic and Nontoxic Strains of <i>Microcystis aeruginosa</i> . Applied and Environmental Microbiology, 2011, 77, 7068-7071.	1.4	25
50	Transformation dynamics and reactivity of dissolved and colloidal iron in coastal waters. Marine Chemistry, 2008, 110, 165-175.	0.9	24
51	Design of high-temperature atmospheric and pressurised gas-phase solar receivers: A comprehensive review on numerical modelling and performance parameters. Solar Energy, 2020, 201, 701-723.	2.9	23
52	Effect of Natural Organic Matter on Iron Uptake by the Freshwater Cyanobacterium <i>Microcystis aeruginosa</i> . Environmental Science & Technology, 2014, 48, 365-374.	4.6	22
53	Phosphorus speciation and bioavailability in diverse biochars. Plant and Soil, 2019, 443, 233-244.	1.8	22
54	A novel high-temperature (>700°C), volumetric receiver with a packed bed of transparent and absorbing spheres. Applied Energy, 2020, 264, 114705.	5.1	21

#	ARTICLE	IF	CITATIONS
55	Superoxide-mediated reduction of organically complexed iron(III): Impact of pH and competing cations (Ca ²⁺). <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 5620-5634.	1.6	20
56	Moderate ocean warming mitigates, but more extreme warming exacerbates the impacts of zinc from engineered nanoparticles on <i>A. marina</i> larva. <i>Environmental Pollution</i> , 2017, 228, 190-200.	3.7	19
57	Development of a novel high-temperature, pressurised, indirectly-irradiated cavity receiver. <i>Energy Conversion and Management</i> , 2020, 204, 112175.	4.4	19
58	Seas of Superoxide. <i>Science</i> , 2013, 340, 1176-1177.	6.0	18
59	Crop fertilisation potential of phosphorus in hydrochars produced from sewage sludge. <i>Science of the Total Environment</i> , 2022, 817, 153023.	3.9	18
60	Calcium coordination environment in precursor species to calcium carbonate mineral formation. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 259, 344-357.	1.6	12
61	The characterization of iron (III) in seawater and related toxicity to early life stages of scleractinian corals. <i>Environmental Toxicology and Chemistry</i> , 2018, 37, 1104-1114.	2.2	11
62	The potential of benthic iron and phosphorus fluxes to support the growth of a bloom forming toxic cyanobacterium <i>Lyngbya majuscula</i> , Moreton Bay, Australia. <i>Marine and Freshwater Research</i> , 2016, 67, 1918.	0.7	10
63	Oxic and Anoxic Organic Polymer Degradation Potential of Endophytic Fungi From the Marine Macroalga, <i>Ecklonia radiata</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 726138.	1.5	10
64	The Influence of Reactive Oxygen Species on Local Redox Conditions in Oxygenated Natural Waters. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	9
65	Nonclassical nucleation towards separation and recycling science: Iron and aluminium (Oxy)(hydr)oxides. <i>Current Opinion in Colloid and Interface Science</i> , 2020, 46, 114-127.	3.4	9
66	Landslide-induced iron mobilisation shapes benthic accumulation of nutrients, trace metals and REE fractionation in an oligotrophic alpine stream. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 1-22.	1.6	8
67	Porewater inputs drive Fe redox cycling in the water column of a temperate mangrove wetland. <i>Estuarine, Coastal and Shelf Science</i> , 2018, 207, 259-268.	0.9	8
68	Optical analysis of a semi-transparent packed bed of spheres for next-generation volumetric solar receivers. <i>Energy</i> , 2022, 252, 123985.	4.5	7
69	Pathways Contributing to the Formation and Decay of Ferrous Iron in Sunlit Natural Waters. <i>ACS Symposium Series</i> , 2011, , 153-176.	0.5	6
70	Response surface statistical optimisation of zeolite-X/silica by hydrothermal synthesis. <i>Journal of Materials Science</i> , 2019, 54, 14677-14689.	1.7	6
71	The effect of dissolved natural organic matter on the rate of removal of ferrous iron in fresh waters. <i>Water Science and Technology: Water Supply</i> , 2004, 4, 213-219.	1.0	4
72	Comment on "Application of a superoxide (O ₂ ^{•-}) thermal source (SOTS-1) for the determination and calibration of O ₂ ^{•-} fluxes in seawater" by Heller and Croot. <i>Analytica Chimica Acta</i> , 2011, 702, 144-145.	2.6	3

#	ARTICLE	IF	CITATIONS
73	Measuring total dissolved Fe concentrations in phytoplankton cultures in the presence of synthetic and organic ligands using a modified ferrozine method. Marine Chemistry, 2018, 203, 22-27.	0.9	2
74	An online calculator for marine phytoplankton iron culturing experiments. Journal of Phycology, 2013, 49, 1017-1021.	1.0	1
75	Reply to comment: Non-classical nucleation towards separation and recycling science: Iron and aluminium (oxy)(hydr)oxides. Current Opinion in Colloid and Interface Science, 2020, 46, 130.	3.4	0