T David Waite

List of Publications by Year in descending order

349 papers	22,220 citations	7672 79 h-index	16186 128 g-index
355 all docs	355 docs citations	355 times ranked	18889 citing authors

#	Article	IF	Citations
1	Distinguishing between terrestrial and autochthonous organic matter sources in marine environments using fluorescence spectroscopy. Marine Chemistry, 2008, 108, 40-58.	0.9	654
2	Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. Water Research, 2018, 128, 314-330.	5.3	523
3	Fenton-like copper redox chemistry revisited: Hydrogen peroxide and superoxide mediation of copper-catalyzed oxidant production. Journal of Catalysis, 2013, 301, 54-64.	3.1	508
4	The Technology Horizon for Photocatalytic Water Treatment: Sunrise or Sunset?. Environmental Science & Technology, 2019, 53, 2937-2947.	4.6	493
5	Quantification of the Oxidizing Capacity of Nanoparticulate Zero-Valent Iron. Environmental Science & Technology, 2005, 39, 1263-1268.	4.6	417
6	Oxidative Degradation of the Carbothioate Herbicide, Molinate, Using Nanoscale Zero-Valent Iron. Environmental Science & Technology, 2004, 38, 2242-2247.	4.6	358
7	Methods for reactive oxygen species (ROS) detection in aqueous environments. Aquatic Sciences, 2012, 74, 683-734.	0.6	330
8	The effect of silica and natural organic matter on the Fe(II)-catalysed transformation and reactivity of Fe(III) minerals. Geochimica Et Cosmochimica Acta, 2009, 73, 4409-4422.	1.6	318
9	Kinetic Model for Fe(II) Oxidation in Seawater in the Absence and Presence of Natural Organic Matter. Environmental Science & Technology, 2002, 36, 433-444.	4.6	297
10	Photoreductive dissolution of colloidal iron oxides in natural waters. Environmental Science & Technology, 1984, 18, 860-868.	4.6	271
11	Effect of Solution and Solid-Phase Conditions on the Fe(II)-Accelerated Transformation of Ferrihydrite to Lepidocrocite and Goethite. Environmental Science & Technology, 2014, 48, 5477-5485.	4.6	265
12	Faradaic Reactions in Water Desalination by Batch-Mode Capacitive Deionization. Environmental Science and Technology Letters, 2016, 3, 222-226.	3.9	250
13	Comparison of Faradaic reactions in capacitive deionization (CDI) and membrane capacitive deionization (MCDI) water treatment processes. Water Research, 2017, 120, 229-237.	5.3	242
14	Fe(II) Redox Chemistry in the Environment. Chemical Reviews, 2021, 121, 8161-8233.	23.0	242
15	Kinetics of iron complexation by dissolved natural organic matter in coastal waters. Marine Chemistry, 2003, 84, 85-103.	0.9	234
16	Advances in Surface Passivation of Nanoscale Zerovalent Iron: A Critical Review. Environmental Science & Technology, 2018, 52, 12010-12025.	4.6	225
17	A Changing Framework for Urban Water Systems. Environmental Science & Technology, 2013, 47, 10721-10726.	4.6	208
18	pH Effects on Iron-Catalyzed Oxidation using Fentonâ€™s Reagent. Environmental Science & Technology, 2008, 42, 8522-8527.	4.6	201

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19	Silver-modified mesoporous TiO2 photocatalyst for water purification. Water Research, 2011, 45, 2095-2103.	5.3	196
20	Optimized Parameters for Fluorescence-Based Verification of Ballast Water Exchange by Ships. Environmental Science & Technology, 2006, 40, 2357-2362.	4.6	195
21	Silver Nanoparticleâ^'Reactive Oxygen Species Interactions: Application of a Chargingâ^'Discharging Model. Journal of Physical Chemistry C, 2011, 115, 5461-5468.	1.5	193
22	Fluoride and nitrate removal from brackish groundwaters by batch-mode capacitive deionization. Water Research, 2015, 84, 342-349.	5.3	185
23	Combined effect of membrane and foulant hydrophobicity and surface charge on adsorptive fouling during microfiltration. Journal of Membrane Science, 2011, 373, 140-151.	4.1	175
24	Evidence of Shear Rate Dependence on Restructuring and Breakup of Latex Aggregates. Journal of Colloid and Interface Science, 2001, 236, 67-77.	5.0	161
25	Chemiluminescence of Luminol in the Presence of Iron(II) and Oxygen:Â Oxidation Mechanism and Implications for Its Analytical Use. Analytical Chemistry, 2001, 73, 5909-5920.	3.2	161
26	Active chlorine mediated ammonia oxidation revisited: Reaction mechanism, kinetic modelling and implications. Water Research, 2018, 145, 220-230.	5.3	158
27	Reduction of Organically Complexed Ferric Iron by Superoxide in a Simulated Natural Water. Environmental Science & Technology, 2005, 39, 2645-2650.	4.6	157
28	Sonolysis of 4-chlorophenol in aqueous solution: Effects of substrate concentration, aqueous temperature and ultrasonic frequency. Ultrasonics Sonochemistry, 2006, 13, 415-422.	3.8	157
29	Process Optimization of Fenton Oxidation Using Kinetic Modeling. Environmental Science & Technology, 2006, 40, 4189-4195.	4.6	152
30	Silver Nanoparticleâ€"Algae Interactions: Oxidative Dissolution, Reactive Oxygen Species Generation and Synergistic Toxic Effects. Environmental Science & Technology, 2012, 46, 8731-8738.	4.6	151
31	Effect of pH on the ultrasonic degradation of ionic aromatic compounds in aqueous solution. Ultrasonics Sonochemistry, 2002, 9, 163-168.	3.8	149
32	H₂O₂-Mediated Oxidation of Zero-Valent Silver and Resultant Interactions among Silver Nanoparticles, Silver Ions, and Reactive Oxygen Species. Langmuir, 2012, 28, 10266-10275.	1.6	148
33	Short-Circuited Closed-Cycle Operation of Flow-Electrode CDI for Brackish Water Softening. Environmental Science & Technology, 2018, 52, 9350-9360.	4.6	146
34	Kinetics of Fe(III) precipitation in aqueous solutions at pH 6.0â€"9.5 and 25Â°C. Geochimica Et Cosmochimica Acta, 2006, 70, 640-650.	1.6	144
35	Superoxide-Mediated Formation and Charging of Silver Nanoparticles. Environmental Science & Technology, 2011, 45, 1428-1434.	4.6	144
36	Photochemical production of superoxide and hydrogen peroxide from natural organic matter. Geochimica Et Cosmochimica Acta, 2011, 75, 4310-4320.	1.6	142

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37	Oxygenation of Fe(II) in natural waters revisited: Kinetic modeling approaches, rate constant estimation and the importance of various reaction pathways. Geochimica Et Cosmochimica Acta, 2008, 72, 3616-3630.	1.6	138
38	Use of Superoxide as an Electron Shuttle for Iron Acquisition by the Marine CyanobacteriumLyngbya majuscula. Environmental Science & Technology, 2005, 39, 3708-3715.	4.6	136
39	Analysis of capacitive and electrodialytic contributions to water desalination by flow-electrode CDI. Water Research, 2018, 144, 296-303.	5.3	135
40	Role of Gelling Soluble and Colloidal Microbial Products in Membrane Fouling. Environmental Science & Technology, 2009, 43, 9341-9347.	4.6	134
41	Effect of Dissolved Natural Organic Matter on the Kinetics of Ferrous Iron Oxygenation in Seawater. Environmental Science & Technology, 2003, 37, 4877-4886.	4.6	132
42	Continuous Ammonia Recovery from Wastewaters Using an Integrated Capacitive Flow Electrode Membrane Stripping System. Environmental Science & Technology, 2018, 52, 14275-14285.	4.6	131
43	Characterization of floc size and structure under different monomer and polymer coagulants on microfiltration membrane fouling. Journal of Membrane Science, 2008, 321, 132-138.	4.1	130
44	Recent advances in Cu-Fenton systems for the treatment of industrial wastewaters: Role of Cu complexes and Cu composites. Journal of Hazardous Materials, 2020, 392, 122261.	6.5	126
45	Flow Electrode Capacitive Deionization (FCDI): Recent Developments, Environmental Applications, and Future Perspectives. Environmental Science & Technology, 2021, 55, 4243-4267.	4.6	125
46	Effect of Structural Transformation of Nanoparticulate Zero-Valent Iron on Generation of Reactive Oxygen Species. Environmental Science & Technology, 2016, 50, 3820-3828.	4.6	124
47	Iron uptake and toxin synthesis in the bloomâ€forming <i>Microcystis aeruginosa</i> under iron limitation. Environmental Microbiology, 2011, 13, 1064-1077.	1.8	123
48	Development of Redox-Active Flow Electrodes for High-Performance Capacitive Deionization. Environmental Science & Technology, 2016, 50, 13495-13501.	4.6	122
49	Kinetic Modeling of the Oxidation ofp-Hydroxybenzoic Acid by Fenton's Reagent:Â Implications of the Role of Quinones in the Redox Cycling of Iron. Environmental Science & Technology, 2007, 41, 4103-4110.	4.6	120
50	Effects of pH, Chloride, and Bicarbonate on Cu(I) Oxidation Kinetics at Circumneutral pH. Environmental Science & Technology, 2012, 46, 1527-1535.	4.6	119
51	Rapid Structure Characterization of Bacterial Aggregates. Environmental Science & Technology, 1998, 32, 3735-3742.	4.6	115
52	Fenton-Mediated Oxidation in the Presence and Absence of Oxygen. Environmental Science & Technology, 2005, 39, 5052-5058.	4.6	113
53	Capacitive Membrane Stripping for Ammonia Recovery (CapAmm) from Dilute Wastewaters. Environmental Science and Technology Letters, 2018, 5, 43-49.	3.9	111
54	The effect of vibration and coagulant addition on the filtration performance of submerged hollow fibre membranes. Journal of Membrane Science, 2006, 281, 726-734.	4.1	108

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55	Hydroquinone-Mediated Redox Cycling of Iron and Concomitant Oxidation of Hydroquinone in Oxic Waters under Acidic Conditions: Comparison with Ironâ€“Natural Organic Matter Interactions. Environmental Science & Technology, 2015, 49, 14076-14084.	4.6	108
56	Ferrous iron oxidation by molecular oxygen under acidic conditions: The effect of citrate, EDTA and fulvic acid. Geochimica Et Cosmochimica Acta, 2015, 160, 117-131.	1.6	107
57	Ferrous iron oxidation under acidic conditions â€“ The effect of ferric oxide surfaces. Geochimica Et Cosmochimica Acta, 2014, 145, 1-12.	1.6	106
58	Effect of ferric and ferrous iron addition on phosphorus removal and fouling in submerged membrane bioreactors. Water Research, 2015, 69, 210-222.	5.3	105
59	Kinetics and mechanisms of ultrasonic degradation of volatile chlorinated aromatics in aqueous solutions. Ultrasonics Sonochemistry, 2002, 9, 317-323.	3.8	104
60	Kinetic Modeling of the Electro-Fenton Process: Quantification of Reactive Oxygen Species Generation. Electrochimica Acta, 2015, 176, 51-58.	2.6	104
61	Oxidative transformation of contaminants using colloidal zero-valent iron. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2005, 265, 88-94.	2.3	103
62	Copper-Catalyzed Hydroquinone Oxidation and Associated Redox Cycling of Copper under Conditions Typical of Natural Saline Waters. Environmental Science & Technology, 2013, 47, 8355-8364.	4.6	103
63	Effects of Aggregate Structure on the Dissolution Kinetics of Citrate-Stabilized Silver Nanoparticles. Environmental Science & Technology, 2013, 47, 9148-9156.	4.6	102
64	Optimization of sulfate removal from brackish water by membrane capacitive deionization (MCDI). Water Research, 2017, 121, 302-310.	5.3	101
65	Photocatalytic Degradation of the Blue Green Algal Toxin Microcystin-LR in a Natural Organic-Aqueous Matrix. Environmental Science & Technology, 1999, 33, 243-249.	4.6	100
66	Kinetics of Hydrolysis and Precipitation of Ferric Iron in Seawater. Environmental Science & Technology, 2003, 37, 3897-3903.	4.6	99
67	Effect of Amorphous Fe(III) Oxide Transformation on the Fe(II)-Mediated Reduction of U(VI). Environmental Science & Technology, 2011, 45, 1327-1333.	4.6	96
68	Hydroxyl Radical Production by H₂O₂-Mediated Oxidation of Fe(II) Complexed by Suwannee River Fulvic Acid Under Circumneutral Freshwater Conditions. Environmental Science & Technology, 2013, 47, 829-835.	4.6	95
69	Photoassisted dissolution of a colloidal manganese oxide in the presence of fulvic acid. Environmental Science & Technology, 1988, 22, 778-785.	4.6	94
70	Investigation of fluoride removal from low-salinity groundwater by single-pass constant-voltage capacitive deionization. Water Research, 2016, 99, 112-121.	5.3	94
71	Integration of photovoltaic energy supply with membrane capacitive deionization (MCDI) for salt removal from brackish waters. Water Research, 2018, 147, 276-286.	5.3	94
72	Comparison of faradaic reactions in flow-through and flow-by capacitive deionization (CDI) systems. Electrochimica Acta, 2019, 299, 727-735.	2.6	87

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73	Flow-electrode capacitive deionization (FCDI) scale-up using a membrane stack configuration. Water Research, 2020, 168, 115186.	5.3	87
74	Measurement and Implications of Nonphotochemically Generated Superoxide in the Equatorial Pacific Ocean. Environmental Science & Technology, 2008, 42, 2387-2393.	4.6	86
75	Kinetics of Cu(II) Reduction by Natural Organic Matter. Journal of Physical Chemistry A, 2012, 116, 6590-6599.	1.1	86
76	Cost-effective Chlorella biomass production from dilute wastewater using a novel photosynthetic microbial fuel cell (PMFC). Water Research, 2017, 108, 356-364.	5.3	85
77	Life Cycle Assessment of Water Recycling Technology. Water Resources Management, 2005, 19, 521-537.	1.9	84
78	Impact of gel layer formation on colloid retention in membrane filtration processes. Journal of Membrane Science, 2008, 325, 486-494.	4.1	84
79	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. Analytical Chemistry, 2008, 80, 1215-1227.	3.2	82
80	Removal of natural populations of marine plankton by a large-scale ballast water treatment system. Marine Ecology - Progress Series, 2003, 258, 51-63.	0.9	82
81	Role of superoxide in the photochemical reduction of iron in seawater. Geochimica Et Cosmochimica Acta, 2006, 70, 3869-3882.	1.6	80
82	Fluoride Removal from Brackish Groundwaters by Constant Current Capacitive Deionization (CDI). Environmental Science & Technology, 2016, 50, 10570-10579.	4.6	80
83	Effect of <i>Shewanella oneidensis</i> on the Kinetics of Fe(II)-Catalyzed Transformation of Ferrihydrite to Crystalline Iron Oxides. Environmental Science & Technology, 2018, 52, 114-123.	4.6	80
84	Ammonia-Rich Solution Production from Wastewaters Using Chemical-Free Flow-Electrode Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2019, 7, 6480-6485.	3.2	80
85	Cu(II)-catalyzed oxidation of dopamine in aqueous solutions: Mechanism and kinetics. Journal of Inorganic Biochemistry, 2014, 137, 74-84.	1.5	79
86	Impact of Natural Organic Matter on Floc Size and Structure Effects in Membrane Filtrationâ€. Environmental Science & Technology, 2005, 39, 6477-6486.	4.6	78
87	Heterogeneous Fenton Chemistry Revisited: Mechanistic Insights from Ferrihydrite-Mediated Oxidation of Formate and Oxalate. Environmental Science & Technology, 2021, 55, 14414-14425.	4.6	77
88	Management of Concentrated Waste Streams from High-Pressure Membrane Water Treatment Systems. Critical Reviews in Environmental Science and Technology, 2009, 39, 367-415.	6.6	76
89	Contaminant Removal from Source Waters Using Cathodic Electrochemical Membrane Filtration: Mechanisms and Implications. Environmental Science & Technology, 2017, 51, 2757-2765.	4.6	76
90	Risk and Governance in Water Recycling. Science Technology and Human Values, 2006, 31, 107-134.	1.7	75

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91	Low energy consumption and mechanism study of redox flow desalination. Chemical Engineering Journal, 2020, 401, 126111.	6.6	75
92	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater â€“ a perspective. Environmental Science: Nano, 2020, 7, 2178-2194.	2.2	74
93	Importance of Iron Complexation for Fenton-Mediated Hydroxyl Radical Production at Circumneutral pH. Frontiers in Marine Science, 2016, 3, .	1.2	73
94	Charge Effects in the Fractionation of Natural Organics Using Ultrafiltration. Environmental Science & Technology, 2002, 36, 2572-2580.	4.6	71
95	Gel layer formation and hollow fiber membrane filterability of polysaccharide dispersions. Journal of Membrane Science, 2008, 322, 204-213.	4.1	71
96	Coulometric study of the redox dynamics of iron in seawater. Analytical Chemistry, 1984, 56, 787-792.	3.2	70
97	Hydroxyl radicals in anodic oxidation systems: generation, identification and quantification. Water Research, 2022, 217, 118425.	5.3	70
98	Evaluation of long-term performance of a continuously operated flow-electrode CDI system for salt removal from brackish waters. Water Research, 2020, 173, 115580.	5.3	68
99	Development of a Mechanically Flexible 2D-MXene Membrane Cathode for Selective Electrochemical Reduction of Nitrate to N₂: Mechanisms and Implications. Environmental Science & Technology, 2021, 55, 10695-10703.	4.6	68
100	Predicting iron speciation in coastal waters from the kinetics of sunlight-mediated iron redox cycling. Aquatic Sciences, 2003, 65, 375-383.	0.6	67
101	The FeL model of iron acquisition: Nondissociative reduction of ferric complexes in the marine environment. Limnology and Oceanography, 2006, 51, 1744-1754.	1.6	67
102	Fenton-like zero-valent silver nanoparticle-mediated hydroxyl radical production. Journal of Catalysis, 2014, 317, 198-205.	3.1	67
103	Reduction of U(VI) by Fe(II) during the Fe(II)-Accelerated Transformation of Ferrihydrite. Environmental Science & Technology, 2014, 48, 9086-9093.	4.6	67
104	Investigation of early hydration dynamics and microstructural development in ordinary Portland cement using 1H NMR relaxometry and isothermal calorimetry. Cement and Concrete Research, 2016, 83, 131-139.	4.6	67
105	Self-Enhanced Decomplexation of Cu-Organic Complexes and Cu Recovery from Wastewaters Using an Electrochemical Membrane Filtration System. Environmental Science & Technology, 2021, 55, 655-664.	4.6	67
106	Integrated Flow-Electrode Capacitive Deionization and Microfiltration System for Continuous and Energy-Efficient Brackish Water Desalination. Environmental Science & Technology, 2019, 53, 13364-13373.	4.6	66
107	Depassivation of Aged Fe⁰ by Ferrous Ions: Implications to Contaminant Degradation. Environmental Science & Technology, 2013, 47, 13712-13720.	4.6	64
108	Phosphorus removal by in situ generated Fe(II): Efficacy, kinetics and mechanism. Water Research, 2018, 136, 120-130.	5.3	64

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109	Energy recovery in pilot scale membrane CDI treatment of brackish waters. Water Research, 2020, 168, 115146.	5.3	64
110	Oxygenation of Fe(II) in the Presence of Citrate in Aqueous Solutions at pH 6.0âˆ’8.0 and 25 Â°C:â€‰ Interpretation from an Fe(II)/Citrate Speciation Perspective. Journal of Physical Chemistry A, 2008, 112, 643-651.	1.1	63
111	Redox characterization of the Fe(II)-catalyzed transformation of ferrihydrite to goethite. Geochimica Et Cosmochimica Acta, 2017, 218, 257-272.	1.6	63
112	Mechanisms of enhancement in early hydration by sodium sulfate in a slag-cement blend â€" Insights from pore solution chemistry. Cement and Concrete Research, 2020, 135, 106110.	4.6	63
113	Mechanistic insights into the catalytic ozonation process using iron oxide-impregnated activated carbon. Water Research, 2020, 177, 115785.	5.3	63
114	Oxidative Dissolution of Silver Nanoparticles by Chlorine: Implications to Silver Nanoparticle Fate and Toxicity. Environmental Science & Technology, 2016, 50, 3890-3896.	4.6	62
115	Superoxide-Mediated Dissolution of Amorphous Ferric Oxyhydroxide in Seawater. Environmental Science & Technology, 2006, 40, 880-887.	4.6	61
116	Environmental life cycle assessment of the microfiltration process. Journal of Membrane Science, 2006, 284, 214-226.	4.1	61
117	Schwertmannite stability in acidified coastal environments. Geochimica Et Cosmochimica Acta, 2010, 74, 482-496.	1.6	61
118	Depassivation of Aged Fe⁰ by Divalent Cations: Correlation between Contaminant Degradation and Surface Complexation Constants. Environmental Science & Technology, 2014, 48, 14564-14571.	4.6	61
119	Phosphate selective recovery by magnetic iron oxide impregnated carbon flow-electrode capacitive deionization (FCDI). Water Research, 2021, 189, 116653.	5.3	61
120	Calcium-mediated polysaccharide gel formation and breakage: Impact on membrane foulant hydraulic properties. Journal of Membrane Science, 2015, 475, 395-405.	4.1	60
121	Mechanism and Kinetics of Dark Iron Redox Transformations in Previously Photolyzed Acidic Natural Organic Matter Solutions. Environmental Science & Technology, 2013, 47, 1861-1869.	4.6	59
122	Influence of Dissolved Silicate on Rates of Fe(II) Oxidation. Environmental Science & Technology, 2016, 50, 11663-11671.	4.6	59
123	Effect of the Presence of Carbon in Ti₄O₇ Electrodes on Anodic Oxidation of Contaminants. Environmental Science & Technology, 2020, 54, 5227-5236.	4.6	58
124	Superoxide Mediated Reduction of Organically Complexed Iron(III):Â Comparison of Non-Dissociative and Dissociative Reduction Pathways. Environmental Science & Technology, 2007, 41, 3205-3212.	4.6	57
125	Water Recovery Rate in Short-Circuited Closed-Cycle Operation of Flow-Electrode Capacitive Deionization (FCDI). Environmental Science & Technology, 2019, 53, 13859-13867.	4.6	57
126	Production of Reactive Oxygen Species on Photolysis of Dilute Aqueous Quinone Solutions. Photochemistry and Photobiology, 2007, 83, 904-913.	1.3	56

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127	Mechanistic insights into iron redox transformations in the presence of natural organic matter: Impact of pH and light. Geochimica Et Cosmochimica Acta, 2015, 165, 14-34.	1.6	56
128	Role of membrane and compound properties in affecting the rejection of pharmaceuticals by different RO/NF membranes. Frontiers of Environmental Science and Engineering, 2017, 11, 1.	3.3	56
129	Analysis of polysaccharide, protein and humic acid retention by microfiltration membranes using Thomasâ€™ dynamic adsorption model. Journal of Membrane Science, 2009, 342, 22-34.	4.1	55
130	Effect of Fe(II) and Fe(III) Transformation Kinetics on Iron Acquisition by a Toxic Strain of Microcystis aeruginosa. Environmental Science & Technology, 2010, 44, 1980-1986.	4.6	55
131	Mineral species control of aluminum solubility in sulfate-rich acidic waters. Geochimica Et Cosmochimica Acta, 2011, 75, 965-977.	1.6	55
132	Removal of phosphorus from wastewaters using ferrous salts â€“ A pilot scale membrane bioreactor study. Water Research, 2014, 57, 140-150.	5.3	54
133	Flow-Electrode CDI Removes the Uncharged Caâ€“UO₂â€“CO₃ Ternary Complex from Brackish Potable Groundwater: Complex Dissociation, Transport, and Sorption. Environmental Science & Technology, 2019, 53, 2739-2747.	4.6	54
134	Iron and phosphorus speciation in Fe-conditioned membrane bioreactor activated sludge. Water Research, 2015, 76, 213-226.	5.3	53
135	New method for the determination of extracellular production of superoxide by marine phytoplankton using the chemiluminescence probes MCLA and redâ€CLA. Limnology and Oceanography: Methods, 2009, 7, 682-692.	1.0	52
136	Numerical simulation of bubble induced shear inÂmembrane bioreactors: Effects of mixed liquor rheology and membrane configuration. Water Research, 2015, 75, 131-145.	5.3	52
137	Uranium Reduction by Fe(II) in the Presence of Montmorillonite and Nontronite. Environmental Science & Technology, 2016, 50, 8223-8230.	4.6	52
138	Phosphate recovery as vivianite using a flow-electrode capacitive desalination (FCDI) and fluidized bed crystallization (FBC) coupled system. Water Research, 2021, 194, 116939.	5.3	52
139	Iron speciation and iron species transformation in activated sludge membrane bioreactors. Water Research, 2010, 44, 3511-3521.	5.3	51
140	Effects of pH, floc age and organic compounds on the removal of phosphate by pre-polymerized hydrous ferric oxides. Separation and Purification Technology, 2012, 91, 38-45.	3.9	51
141	The impact of absorbents on ammonia recovery in a capacitive membrane stripping system. Chemical Engineering Journal, 2020, 382, 122851.	6.6	51
142	Impact of natural organic matter on H2O2-mediated oxidation of Fe(II) in a simulated freshwater system. Geochimica Et Cosmochimica Acta, 2009, 73, 2758-2768.	1.6	50
143	Process optimization in use of zero valent iron nanoparticles for oxidative transformations. Chemosphere, 2010, 81, 127-131.	4.2	50
144	Novel application of a fish gill cell line assay to assess ichthyotoxicity of harmful marine microalgae. Harmful Algae, 2011, 10, 366-373.	2.2	50

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145	Synthesis and Characterization of Antibacterial Silver Nanoparticle-Impregnated Rice Husks and Rice Husk Ash. Environmental Science & Technology, 2013, 47, 5276-5284.	4.6	50
146	pH Dependence of Hydroxyl Radical, Ferryl, and/or Ferric Peroxo Species Generation in the Heterogeneous Fenton Process. Environmental Science & Technology, 2022, 56, 1278-1288.	4.6	50
147	Phthalhydrazide Chemiluminescence Method for Determination of Hydroxyl Radical Production: Modifications and Adaptations for Use in Natural Systems. Analytical Chemistry, 2011, 83, 261-268.	3.2	49
148	Adsorption of the Endocrine-Active Compound Estrone on Microfiltration Hollow Fiber Membranes. Environmental Science & Technology, 2003, 37, 3158-3163.	4.6	48
149	An in situ quick-EXAFS and redox potential study of the Fe(II)-catalysed transformation of ferrihydrite. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 435, 2-8.	2.3	48
150	Incorporating phosphorus management considerations into wastewater management practice. Environmental Science and Policy, 2005, 8, 1-15.	2.4	47
151	The short-term reduction of uranium by nanoscale zero-valent iron (nZVI): role of oxide shell, reduction mechanism and the formation of U(<scp>v</scp>)-carbonate phases. Environmental Science: Nano, 2017, 4, 1304-1313.	2.2	47
152	Modeling the Kinetics of Fe(II) Oxidation in the Presence of Citrate and Salicylate in Aqueous Solutions at pH 6.0â˜’8.0 and 25 Â°C. Journal of Physical Chemistry A, 2008, 112, 5395-5405.	1.1	46
153	The tortoise versus the hare - Possible advantages of microparticulate zerovalent iron (mZVI) over nanoparticulate zerovalent iron (nZVI) in aerobic degradation of contaminants. Water Research, 2016, 105, 331-340.	5.3	46
154	Ligand exchange and fluorescence quenching studies of the fulvic acid-iron interaction. Analytica Chimica Acta, 1984, 162, 263-274.	2.6	45
155	Dynamics of nonphotochemical superoxide production in the Great Barrier Reef lagoon. Limnology and Oceanography, 2010, 55, 1521-1536.	1.6	45
156	Oxygen and Superoxide-Mediated Redox Kinetics of Iron Complexed by Humic Substances in Coastal Seawater. Environmental Science & Technology, 2010, 44, 9337-9342.	4.6	45
157	Production of a Surface-Localized Oxidant during Oxygenation of Mackinawite (FeS). Environmental Science & Technology, 2020, 54, 1167-1176.	4.6	45
158	Characterization of complexing agents in natural waters by copper(II)/copper(I) amperometry. Analytical Chemistry, 1983, 55, 1268-1274.	3.2	44
159	Effect of divalent cations on the kinetics of Fe(III) complexation by organic ligands in natural waters. Geochimica Et Cosmochimica Acta, 2008, 72, 1335-1349.	1.6	44
160	The role of bacterial and algal exopolymeric substances in iron chemistry. Marine Chemistry, 2015, 173, 148-161.	0.9	44
161	Lithium recovery using electrochemical technologies: Advances and challenges. Water Research, 2022, 221, 118822.	5.3	44
162	Iron uptake by the ichthyotoxic <i>Chattonella marina</i> (Raphidophyceae): impact of superoxide generation¹. Journal of Phycology, 2007, 43, 978-991.	1.0	43

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163	Formation, reactivity, and aging of ferric oxide particles formed from Fe(II) and Fe(III) sources: Implications for iron bioavailability in the marine environment. Geochimica Et Cosmochimica Acta, 2011, 75, 7741-7758.	1.6	43
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