

# Di He

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

51  
papers

3,752  
citations

32  
h-index

51  
g-index

51  
ext. papers

4,559  
ext. citations

9.9  
avg, IF

5.89  
L-index

#	Paper	IF	Citations
51	Mechanistic insight into the biofilm formation and process performance of a passive aeration ditch (PAD) for decentralized wastewater treatment. <i>Frontiers of Environmental Science and Engineering</i> , <b>2022</b> , 16, 1	5.8	1
50	Mechanistic insight into pH-dependent adsorption and coprecipitation of chelated heavy metals by in-situ formed iron (oxy)hydroxides. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 608, 864-872	9.3	0
49	One-pot synthesis of magnetic Prussian blue for the highly selective removal of thallium(I) from wastewater: Mechanism and implications. <i>Journal of Hazardous Materials</i> , <b>2022</b> , 423, 126972	12.8	2
48	Hot-pressed membrane assemblies enhancing the biofilm formation and nitrogen removal in a membrane-aerated biofilm reactor.. <i>Science of the Total Environment</i> , <b>2022</b> , 155003	10.2	1
47	Sulfidation of ferric (hydr)oxides and its implication on contaminants transformation: a review. <i>Science of the Total Environment</i> , <b>2021</b> , 816, 151574	10.2	2
46	Comparison of Energy Consumption of Osmotically Assisted Reverse Osmosis and Low-Salt-Rejection Reverse Osmosis for Brine Management. <i>Environmental Science &amp; Technology</i> , <b>2021</b> , 55, 10714-10723	10.3	5
45	Exploring the essential factors of performance improvement in sludge membrane bioreactor technology coupled with symbiotic algae. <i>Water Research</i> , <b>2020</b> , 181, 115843	12.5	10
44	Coexistence of humic acid enhances the reductive removal of diatrizoate via depassivating zero-valent iron under aerobic conditions. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 14634-14643	13	2
43	Versatile applications of capacitive deionization (CDI)-based technologies. <i>Desalination</i> , <b>2020</b> , 482, 114390.3	9.3	69
42	Bimetallic nanoparticles/metal-organic frameworks: Synthesis, applications and challenges. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100564	6.6	23
41	Ascorbic acid promoted magnetite Fenton degradation of alachlor: Mechanistic insights and kinetic modeling. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 267, 118383	21.8	52
40	Silver sulfide nanoparticles in aqueous environments: formation, transformation and toxicity. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1674-1687	7.1	22
39	Electro-assisted Adsorption of Zn(II) on Activated Carbon Cloth in Batch-Flow Mode: Experimental and Theoretical Investigations. <i>Environmental Science &amp; Technology</i> , <b>2019</b> , 53, 2670-2678	10.3	34
38	Concentration, fluxes, risks, and sources of heavy metals in atmospheric deposition in the Lihe River watershed, Taihu region, eastern China. <i>Environmental Pollution</i> , <b>2019</b> , 255, 113301	9.3	20
37	Ligand-mediated contaminant degradation by bare and carboxymethyl cellulose-coated bimetallic palladium-zero valent iron nanoparticles in high salinity environments. <i>Journal of Environmental Sciences</i> , <b>2019</b> , 77, 303-311	6.4	4
36	Various cell architectures of capacitive deionization: Recent advances and future trends. <i>Water Research</i> , <b>2019</b> , 150, 225-251	12.5	174
35	Comparison of faradaic reactions in flow-through and flow-by capacitive deionization (CDI) systems. <i>Electrochimica Acta</i> , <b>2019</b> , 299, 727-735	6.7	47

34	Capacitive Membrane Stripping for Ammonia Recovery (CapAmm) from Dilute Wastewaters. <i>Environmental Science and Technology Letters</i> , <b>2018</b> , 5, 43-49	11	74
33	Effects of Good's Buffers and pH on the Structural Transformation of Zero Valent Iron and the Oxidative Degradation of Contaminants. <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 1393-1403	10.3	25
32	Faradaic reactions in capacitive deionization (CDI) - problems and possibilities: A review. <i>Water Research</i> , <b>2018</b> , 128, 314-330	12.5	340
31	Analysis of capacitive and electro-dialytic contributions to water desalination by flow-electrode CDI. <i>Water Research</i> , <b>2018</b> , 144, 296-303	12.5	88
30	Active chlorine mediated ammonia oxidation revisited: Reaction mechanism, kinetic modelling and implications. <i>Water Research</i> , <b>2018</b> , 145, 220-230	12.5	77
29	Palladium Recovery through Membrane Capacitive Deionization from Metal Plating Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 1692-1701	8.3	30
28	Comparison of Faradaic reactions in capacitive deionization (CDI) and membrane capacitive deionization (MCDI) water treatment processes. <i>Water Research</i> , <b>2017</b> , 120, 229-237	12.5	168
27	Optimization of sulfate removal from brackish water by membrane capacitive deionization (MCDI). <i>Water Research</i> , <b>2017</b> , 121, 302-310	12.5	70
26	Investigation of pH-dependent phosphate removal from wastewaters by membrane capacitive deionization (MCDI). <i>Environmental Science: Water Research and Technology</i> , <b>2017</b> , 3, 875-882	4.2	32
25	Development of Redox-Active Flow Electrodes for High-Performance Capacitive Deionization. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 13495-13501	10.3	87
24	The tortoise versus the hare - Possible advantages of microparticulate zerovalent iron (mZVI) over nanoparticulate zerovalent iron (nZVI) in aerobic degradation of contaminants. <i>Water Research</i> , <b>2016</b> , 105, 331-340	12.5	33
23	Mechanistic and kinetic insights into the ligand-promoted depassivation of bimetallic zero-valent iron nanoparticles. <i>Environmental Science: Nano</i> , <b>2016</b> , 3, 737-744	7.1	18
22	Effect of Structural Transformation of Nanoparticulate Zero-Valent Iron on Generation of Reactive Oxygen Species. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 3820-8	10.3	87
21	Modeling the Kinetics of Contaminants Oxidation and the Generation of Manganese(III) in the Permanganate/Bisulfite Process. <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 1473-82	10.3	78
20	Reductive reactivity of borohydride- and dithionite-synthesized iron-based nanoparticles: A comparative study. <i>Journal of Hazardous Materials</i> , <b>2016</b> , 303, 101-10	12.8	20
19	Faradaic Reactions in Water Desalination by Batch-Mode Capacitive Deionization. <i>Environmental Science and Technology Letters</i> , <b>2016</b> , 3, 222-226	11	203
18	Fluoride Removal from Brackish Groundwaters by Constant Current Capacitive Deionization (CDI). <i>Environmental Science &amp; Technology</i> , <b>2016</b> , 50, 10570-10579	10.3	62
17	The limitations of applying zero-valent iron technology in contaminants sequestration and the corresponding countermeasures: the development in zero-valent iron technology in the last two decades (1994-2014). <i>Water Research</i> , <b>2015</b> , 75, 224-48	12.5	560

16	Kinetic Modeling of the Electro-Fenton Process: Quantification of Reactive Oxygen Species Generation. <i>Electrochimica Acta</i> , <b>2015</b> , 176, 51-58	6.7	73
15	Long-term investigation of a novel electrochemical membrane bioreactor for low-strength municipal wastewater treatment. <i>Water Research</i> , <b>2015</b> , 78, 98-110	12.5	84
14	Fluoride and nitrate removal from brackish groundwaters by batch-mode capacitive deionization. <i>Water Research</i> , <b>2015</b> , 84, 342-9	12.5	149
13	Optimizing the design and synthesis of supported silver nanoparticles for low cost water disinfection. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12320-6	10.3	14
12	Fenton-like zero-valent silver nanoparticle-mediated hydroxyl radical production. <i>Journal of Catalysis</i> , <b>2014</b> , 317, 198-205	7.3	47
11	Photolysis of low concentration H <sub>2</sub> S under UV/VUV irradiation emitted from high frequency discharge electrodeless lamps. <i>Chemosphere</i> , <b>2014</b> , 109, 202-7	8.4	23
10	Destruction of Toluene by the Combination of High Frequency Discharge Electrodeless Lamp and Manganese Oxide-Impregnated Granular Activated Carbon Catalyst. <i>International Journal of Photoenergy</i> , <b>2014</b> , 2014, 1-9	2.1	1
9	Effects of aggregate structure on the dissolution kinetics of citrate-stabilized silver nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 9148-56	10.3	94
8	Synthesis and characterization of antibacterial silver nanoparticle-impregnated rice husks and rice husk ash. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 5276-84	10.3	43
7	Silver nanoparticle-algae interactions: oxidative dissolution, reactive oxygen species generation and synergistic toxic effects. <i>Environmental Science &amp; Technology</i> , <b>2012</b> , 46, 8731-8	10.3	134
6	H <sub>2</sub> O <sub>2</sub> -mediated oxidation of zero-valent silver and resultant interactions among silver nanoparticles, silver ions, and reactive oxygen species. <i>Langmuir</i> , <b>2012</b> , 28, 10266-75	4	127
5	Silver Nanoparticle Reactive Oxygen Species Interactions: Application of a Charging/Discharging Model. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 5461-5468	3.8	158
4	Superoxide-mediated formation and charging of silver nanoparticles. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 1428-34	10.3	130
3	Application of permanganate in the oxidation of micropollutants: a mini review. <i>Frontiers of Environmental Science and Engineering in China</i> , <b>2010</b> , 4, 405-413		68
2	Influence of humic acids of different origins on oxidation of phenol and chlorophenols by permanganate. <i>Journal of Hazardous Materials</i> , <b>2010</b> , 182, 681-8	12.8	50
1	Influence of different nominal molecular weight fractions of humic acids on phenol oxidation by permanganate. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8332-7	10.3	37