

Zhiwei Zhao

List of Publications by Year in descending order

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63
papers

2,845
citations

172457

29
h-index

175258

52
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63
all docs

63
docs citations

63
times ranked

3332
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Preparation of Mn _{0.2} Cd _{0.8} ⊂Diethylenetriamine/Porous gâ€C ₃ N ₄ ⊂ Scheme Heterojunction with Enhanced Photocatalytic Hydrogen Production. <i>Advanced Sustainable Systems</i> , 2023, 7, .	5.3	32
2	High-efficiency oxidation of fluoroquinolones by the synergistic activation of peroxymonosulfate via vacuum ultraviolet and ferrous iron. <i>Journal of Hazardous Materials</i> , 2022, 422, 126884.	12.4	32
3	High-efficiency oxidation of norfloxacin by Fe ³⁺ /H ₂ O ₂ process enhanced via vacuum ultraviolet irradiation: Role of newly formed Fe ²⁺ . <i>Chemosphere</i> , 2022, 286, 131964.	8.2	13
4	Nitrite-enhanced N-nitrosamines formation during the simulated tetracycline polluted groundwater chlorination: Experimental and theoretical investigation. <i>Chemical Engineering Journal</i> , 2022, 431, 133363.	12.7	3
5	A newly designed graphite-polyaniline composite current collector to enhance the performance of flow electrode capacitive deionization. <i>Chemical Engineering Journal</i> , 2022, 435, 134845.	12.7	22
6	Efficient reductive and oxidative decomposition of haloacetic acids by the vacuum-ultraviolet/sulfite system. <i>Water Research</i> , 2022, 210, 117974.	11.3	29
7	Mineralization, characteristics variation, and removal mechanism of algal extracellular organic matter during vacuum ultraviolet/ozone process. <i>Science of the Total Environment</i> , 2022, 820, 153298.	8.0	3
8	Separable and reactivated magnetic mZVAL/nFe ₃ O ₄ composite induced by ball milling for efficient adsorption-reduction- sequestration of aqueous Cr(VI). <i>Separation and Purification Technology</i> , 2022, 288, 120689.	7.9	7
9	Selective adsorption of anions on hydrotalcite-like compounds derived from drinking water treatment residuals. <i>Chemosphere</i> , 2022, 300, 134508.	8.2	4
10	Spinel ferrite-enhanced Cr(VI) removal performance of micro-scale zero-valent aluminum: Synergistic effects of oxide film destruction and lattice spacing expansion. <i>Separation and Purification Technology</i> , 2022, 294, 121110.	7.9	6
11	Effect of vacuum ultraviolet/ozone pretreatment on alleviation of ultrafiltration membrane fouling caused by algal extracellular and intracellular organic matter. <i>Chemosphere</i> , 2022, 305, 135455.	8.2	11
12	Activation of MnFe ₂ O ₄ by sulfite for fast and efficient removal of arsenic(III) at circumneutral pH: Involvement of Mn(III). <i>Journal of Hazardous Materials</i> , 2021, 403, 123623.	12.4	36
13	Effect of cations on the enhanced adsorption of cationic dye in Fe ₃ O ₄ -loaded biochar and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105744.	6.7	46
14	Different degradation mechanisms of carbamazepine and diclofenac by single-atom Barium embedded g-C ₃ N ₄ : the role of photosensitization-like mechanism. <i>Journal of Hazardous Materials</i> , 2021, 416, 125936.	12.4	43
15	Rapid degradation of norfloxacin by VUV/Fe ²⁺ /H ₂ O ₂ over a wide initial pH: Process parameters, synergistic mechanism, and influencing factors. <i>Journal of Hazardous Materials</i> , 2021, 416, 125893.	12.4	10
16	Insight into the synergetic effect of photocatalysis and transition metal on sulfite activation: Different mechanisms for carbamazepine and diclofenac degradation. <i>Science of the Total Environment</i> , 2021, 787, 147626.	8.0	21
17	Role of oxygen and superoxide radicals in promoting H ₂ O ₂ production during VUV/UV radiation of water. <i>Chemical Engineering Science</i> , 2021, 241, 116683.	3.8	17
18	Degradation difference of fluoroquinolones by vacuum ultraviolet (VUV) and VUV/Fe ²⁺ processes: Performance, mechanism, and influencing factors. <i>Chemical Engineering Journal</i> , 2021, 424, 130555.	12.7	15

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19	Formation of N-nitrosodimethylamine (NDMA) from tetracycline antibiotics during the disinfection of ammonium-containing water: The role of antibiotics dissociation and active chlorine species. <i>Science of the Total Environment</i> , 2021, 798, 149071.	8.0	10
20	Ultrafast oxidation of emerging contaminants by novel VUV/Fe ²⁺ /PS process at wide pH range: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2021, 426, 131921.	12.7	20
21	Efficient degradation of Acid Orange 7 by persulfate activated with a novel developed carbon-based MnFe ₂ O ₄ composite catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1135-1145.	3.2	14
22	Cr(VI) removal by micron-scale iron-carbon composite induced by ball milling: The role of activated carbon. <i>Chemical Engineering Journal</i> , 2020, 389, 122633.	12.7	88
23	Impact factors on the production of ¹² -methylamino-L-alanine (BMAA) by cyanobacteria. <i>Chemosphere</i> , 2020, 243, 125355.	8.2	15
24	Enhanced Transformation of Emerging Contaminants by Permanganate in the Presence of Redox Mediators. <i>Environmental Science & Technology</i> , 2020, 54, 1909-1919.	10.0	42
25	Copper substituted zinc ferrite with abundant oxygen vacancies for enhanced ciprofloxacin degradation via peroxymonosulfate activation. <i>Journal of Hazardous Materials</i> , 2020, 390, 121998.	12.4	90
26	Energy-saving photo-degradation of three fluoroquinolone antibiotics under VUV/UV irradiation: Kinetics, mechanism, and antibacterial activity reduction. <i>Chemical Engineering Journal</i> , 2020, 383, 123145.	12.7	50
27	Removing PFOA and nitrate by quaternary ammonium compounds modified carbon and its mechanisms analysis: Effect of base, acid or oxidant pretreatment. <i>Chemosphere</i> , 2020, 242, 125233.	8.2	13
28	Adsorption mechanisms of PFOA onto activated carbon anchored with quaternary ammonium/epoxide-forming compounds: A combination of experiment and model studies. <i>Journal of Environmental Sciences</i> , 2020, 98, 94-102.	6.1	14
29	Rapid degradation of dimethoate and simultaneous removal of total phosphorus by acid-activated Fe(VI) under simulated sunlight. <i>Chemosphere</i> , 2020, 258, 127265.	8.2	13
30	Single-atom silver induced amorphization of hollow tubular g-C ₃ N ₄ for enhanced visible light-driven photocatalytic degradation of naproxen. <i>Science of the Total Environment</i> , 2020, 742, 140642.	8.0	34
31	Remarkable phosphate removal and recovery from wastewater by magnetically recyclable La ₂ O ₃ /CO ₃ /Fe ³⁺ -Fe ₂ O ₃ nanocomposites. <i>Journal of Hazardous Materials</i> , 2020, 397, 122597.	12.4	71
32	Selective adsorption of organic pigments on inorganically modified mesoporous biochar and its mechanism based on molecular structure. <i>Journal of Colloid and Interface Science</i> , 2020, 573, 21-30.	9.4	50
33	Overlooked Role of Sulfur-Centered Radicals During Bromate Reduction by Sulfite. <i>Environmental Science & Technology</i> , 2019, 53, 10320-10328.	10.0	48
34	Removal of <i>Microcystis aeruginosa</i> and control of algal organic matters by potassium ferrate(VI) pre-oxidation enhanced Fe(II) coagulation. <i>Korean Journal of Chemical Engineering</i> , 2019, 36, 1587-1594.	2.7	15
35	Selective and enhanced adsorption of the monosubstituted benzenes on the Fe-modified MCM-41: Contribution of the substituent groups. <i>Chemosphere</i> , 2019, 237, 124546.	8.2	12
36	Enhanced adsorption of steroid estrogens by one-pot synthesized phenyl-modified mesoporous silica: Dependence on phenyl-organosilane precursors and pH condition. <i>Chemosphere</i> , 2019, 234, 438-449.	8.2	24

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37	Enhanced adsorption of As(III) on chemically modified activated carbon fibers. <i>Applied Water Science</i> , 2019, 9, 1.	5.6	6
38	Removing nitrate with coconut activated carbon, tailored with quaternary ammonium epoxide compounds: Effect of base or acid carbon pretreatment. <i>Journal of Environmental Management</i> , 2019, 234, 21-27.	7.8	4
39	Low-temperature sintered high-strength CuO doped ceramic hollow fiber membrane: Preparation, characterization and catalytic activity. <i>Journal of Membrane Science</i> , 2019, 570-571, 333-342.	8.2	39
40	Oxygen vacancy-rich ultrathin sulfur-doped bismuth oxybromide nanosheet as a highly efficient visible-light responsive photocatalyst for environmental remediation. <i>Chemical Engineering Journal</i> , 2019, 360, 838-847.	12.7	79
41	N-propyl functionalized spherical mesoporous silica as a rapid and efficient adsorbent for steroid estrogen removal: Adsorption behaviour and effects of water chemistry. <i>Chemosphere</i> , 2019, 214, 361-370.	8.2	31
42	Synthesis of different crystallographic FeOOH catalysts for peroxymonosulfate activation towards organic matter degradation. <i>RSC Advances</i> , 2018, 8, 7269-7279.	3.6	93
43	Efficient degradation of p-arsanilic acid with arsenic adsorption by magnetic CuO-Fe ₃ O ₄ nanoparticles under visible light irradiation. <i>Chemical Engineering Journal</i> , 2018, 334, 1527-1536.	12.7	86
44	Magnetic field enhanced denitrification in nitrate and ammonia contaminated water under 3D/2D Mn ₂ O ₃ /g-C ₃ N ₄ photocatalysis. <i>Chemical Engineering Journal</i> , 2018, 349, 530-538.	12.7	90
45	Visible-light-driven photocatalytic degradation of ciprofloxacin by a ternary Mn ₂ O ₃ /Mn ₃ O ₄ /MnO ₂ valence state heterojunction. <i>Chemical Engineering Journal</i> , 2018, 353, 805-813.	12.7	151
46	A novel flake-ball-like magnetic Fe ₃ O ₄ /β-MnO ₂ meso-porous nano-composite: Adsorption of fluorinon and effect of water chemistry. <i>Chemosphere</i> , 2018, 209, 173-181.	8.2	33
47	Efficient As(III) removal by magnetic CuO-Fe ₃ O ₄ nanoparticles through photo-oxidation and adsorption under light irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 495, 168-177.	9.4	81
48	The retained templates as "helpers" for the spherical meso-silica in adsorption of heavy metals and impacts of solution chemistry. <i>Journal of Colloid and Interface Science</i> , 2017, 496, 382-390.	9.4	27
49	Efficient removal of arsenite through photocatalytic oxidation and adsorption by ZrO ₂ -Fe ₃ O ₄ magnetic nanoparticles. <i>Applied Surface Science</i> , 2017, 416, 656-665.	6.1	68
50	Facile fabrication of novel Mn ₂ O ₃ nanocubes with superior light-harvesting for ciprofloxacin degradation. <i>Catalysis Communications</i> , 2017, 102, 5-8.	3.3	31
51	Energy-efficient fabrication of a novel multivalence Mn ₃ O ₄ -MnO ₂ heterojunction for dye degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 509-517.	20.2	160
52	Enhanced adsorption of the cationic dyes in the spherical CuO/meso-silica nano composite and impact of solution chemistry. <i>Journal of Colloid and Interface Science</i> , 2017, 485, 192-200.	9.4	90
53	Highly efficient removal of bivalent heavy metals from aqueous systems by magnetic porous Fe ₃ O ₄ -MnO ₂ : Adsorption behavior and process study. <i>Chemical Engineering Journal</i> , 2016, 304, 737-746.	12.7	257
54	Adsorption characteristics of Pb(II) from aqueous solutions onto a natural biosorbent, fallen arborvitae leaves. <i>Water Science and Technology</i> , 2016, 73, 2422-2429.	2.5	10

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55	Effective combination of permanganate composite chemicals (PPC) and biological aerated filter (BAF) to pre-treat polluted drinking water source. <i>Desalination and Water Treatment</i> , 2016, 57, 28240-28249.	1.0	4
56	Adsorption of quinolone antibiotics in spherical mesoporous silica: Effects of the retained template and its alkyl chain length. <i>Journal of Hazardous Materials</i> , 2016, 305, 8-14.	12.4	83
57	Diverse strategies conferring extreme cadmium (Cd) tolerance in the dark septate endophyte (DSE), <i>Exophiala pisciphila</i> : Evidence from RNA-seq data. <i>Microbiological Research</i> , 2015, 170, 27-35.	5.3	73
58	Molecular cloning and functional analysis of a H ⁺ -dependent phosphate transporter gene from the ectomycorrhizal fungus <i>Boletus edulis</i> in southwest China. <i>Fungal Biology</i> , 2014, 118, 453-461.	2.5	21
59	Effect of endogenous hydrolytic enzymes pretreatment on the anaerobic digestion of sludge. <i>Bioresource Technology</i> , 2013, 146, 758-761.	9.6	149
60	Simultaneous bioelectrochemical degradation of algae sludge and energy recovery in microbial fuel cells. <i>RSC Advances</i> , 2012, 2, 7228.	3.6	23
61	One pot synthesis of tunable Fe ₃ O ₄ @MnO ₂ core-shell nanoplates and their applications for water purification. <i>Journal of Materials Chemistry</i> , 2012, 22, 9052.	6.7	118
62	One-pot synthesis of Ag@Fe ₃ O ₄ nanocomposites in the absence of additional reductant and its potent antibacterial properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 13891.	6.7	53
63	Comparative study on Pb(II), Cu(II), and Co(II) ions adsorption from aqueous solutions by arborvitae leaves. <i>Desalination and Water Treatment</i> , 0, , 1-8.	1.0	12