

# 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  
g-index

63  
all docs

63  
docs citations

63  
times ranked

3332  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly efficient removal of bivalent heavy metals from aqueous systems by magnetic porous Fe <sub>3</sub> O <sub>4</sub> -MnO <sub>2</sub> : Adsorption behavior and process study. <i>Chemical Engineering Journal</i> , 2016, 304, 737-746.	12.7	257
2	Energy-efficient fabrication of a novel multivalence Mn <sub>3</sub> O <sub>4</sub> -MnO <sub>2</sub> heterojunction for dye degradation under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2017, 202, 509-517.	20.2	160
3	Visible-light-driven photocatalytic degradation of ciprofloxacin by a ternary Mn <sub>2</sub> O <sub>3</sub> /Mn <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> valence state heterojunction. <i>Chemical Engineering Journal</i> , 2018, 353, 805-813.	12.7	151
4	Effect of endogenous hydrolytic enzymes pretreatment on the anaerobic digestion of sludge. <i>Bioresource Technology</i> , 2013, 146, 758-761.	9.6	149
5	One pot synthesis of tunable Fe <sub>3</sub> O <sub>4</sub> @MnO <sub>2</sub> core-shell nanoplates and their applications for water purification. <i>Journal of Materials Chemistry</i> , 2012, 22, 9052.	6.7	118
6	Synthesis of different crystallographic FeOOH catalysts for peroxymonosulfate activation towards organic matter degradation. <i>RSC Advances</i> , 2018, 8, 7269-7279.	3.6	93
7	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
8	Magnetic field enhanced denitrification in nitrate and ammonia contaminated water under 3D/2D Mn <sub>2</sub> O <sub>3</sub> /g-C <sub>3</sub> N <sub>4</sub> photocatalysis. <i>Chemical Engineering Journal</i> , 2018, 349, 530-538.	12.7	90
9	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
10	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
11	Efficient degradation of p-arsanilic acid with arsenic adsorption by magnetic CuO-Fe <sub>3</sub> O <sub>4</sub> nanoparticles under visible light irradiation. <i>Chemical Engineering Journal</i> , 2018, 334, 1527-1536.	12.7	86
12	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
13	Efficient As(III) removal by magnetic CuO-Fe <sub>3</sub> O <sub>4</sub> nanoparticles through photo-oxidation and adsorption under light irradiation. <i>Journal of Colloid and Interface Science</i> , 2017, 495, 168-177.	9.4	81
14	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
15	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
16	Remarkable phosphate removal and recovery from wastewater by magnetically recyclable La <sub>2</sub> O <sub>2</sub> CO <sub>3</sub> /Fe <sub>3</sub> O <sub>4</sub> nanocomposites. <i>Journal of Hazardous Materials</i> , 2020, 397, 122597.	12.4	71
17	Efficient removal of arsenite through photocatalytic oxidation and adsorption by ZrO <sub>2</sub> -Fe <sub>3</sub> O <sub>4</sub> magnetic nanoparticles. <i>Applied Surface Science</i> , 2017, 416, 656-665.	6.1	68
18	One-pot synthesis of Ag@Fe <sub>3</sub> O <sub>4</sub> nanocomposites in the absence of additional reductant and its potent antibacterial properties. <i>Journal of Materials Chemistry</i> , 2012, 22, 13891.	6.7	53

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19	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
20	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
21	Overlooked Role of Sulfur-Centered Radicals During Bromate Reduction by Sulfite. <i>Environmental Science &amp; Technology</i> , 2019, 53, 10320-10328.	10.0	48
22	Effect of cations on the enhanced adsorption of cationic dye in Fe <sub>3</sub> O <sub>4</sub> -loaded biochar and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105744.	6.7	46
23	Different degradation mechanisms of carbamazepine and diclofenac by single-atom Barium embedded g-C <sub>3</sub> N <sub>4</sub> : the role of photosensitization-like mechanism. <i>Journal of Hazardous Materials</i> , 2021, 416, 125936.	12.4	43
24	Enhanced Transformation of Emerging Contaminants by Permanganate in the Presence of Redox Mediators. <i>Environmental Science &amp; Technology</i> , 2020, 54, 1909-1919.	10.0	42
25	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
26	Activation of MnFe <sub>2</sub> O <sub>4</sub> 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
27	Single-atom silver induced amorphization of hollow tubular g-C <sub>3</sub> N <sub>4</sub> for enhanced visible light-driven photocatalytic degradation of naproxen. <i>Science of the Total Environment</i> , 2020, 742, 140642.	8.0	34
28	A novel flake-ball-like magnetic Fe <sub>3</sub> O <sub>4</sub> /MnO <sub>2</sub> meso-porous nano-composite: Adsorption of fluorinon and effect of water chemistry. <i>Chemosphere</i> , 2018, 209, 173-181.	8.2	33
29	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
30	In Situ Preparation of Mn <sub>0.2</sub> Cd <sub>0.8</sub> S@Diethylenetriamine/Porous g-C <sub>3</sub> N <sub>4</sub> Scheme Heterojunction with Enhanced Photocatalytic Hydrogen Production. <i>Advanced Sustainable Systems</i> , 2023, 7, .	5.3	32
31	Facile fabrication of novel Mn <sub>2</sub> O <sub>3</sub> nanocubes with superior light-harvesting for ciprofloxacin degradation. <i>Catalysis Communications</i> , 2017, 102, 5-8.	3.3	31
32	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
33	Efficient reductive and oxidative decomposition of haloacetic acids by the vacuum-ultraviolet/sulfite system. <i>Water Research</i> , 2022, 210, 117974.	11.3	29
34	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
35	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
36	Simultaneous bioelectrochemical degradation of algae sludge and energy recovery in microbial fuel cells. <i>RSC Advances</i> , 2012, 2, 7228.	3.6	23

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37	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
38	Molecular cloning and functional analysis of a H <sup>+</sup> -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
39	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
40	Ultrafast oxidation of emerging contaminants by novel VUV/Fe <sup>2+</sup> /PS process at wide pH range: Performance and mechanism. <i>Chemical Engineering Journal</i> , 2021, 426, 131921.	12.7	20
41	Role of oxygen and superoxide radicals in promoting H <sub>2</sub> O <sub>2</sub> production during VUV/UV radiation of water. <i>Chemical Engineering Science</i> , 2021, 241, 116683.	3.8	17
42	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
43	Impact factors on the production of Î <sup>2</sup> -methylamino-L-alanine (BMAA) by cyanobacteria. <i>Chemosphere</i> , 2020, 243, 125355.	8.2	15
44	Degradation difference of fluoroquinolones by vacuum ultraviolet (VUV) and VUV/Fe <sup>2+</sup> processes: Performance, mechanism, and influencing factors. <i>Chemical Engineering Journal</i> , 2021, 424, 130555.	12.7	15
45	Efficient degradation of Acid Orange 7 by persulfate activated with a novel developed carbon-based MnFe <sub>2</sub> O <sub>4</sub> composite catalyst. <i>Journal of Chemical Technology and Biotechnology</i> , 2020, 95, 1135-1145.	3.2	14
46	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
47	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
48	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
49	High-efficiency oxidation of norfloxacin by Fe <sup>3+</sup> /H <sub>2</sub> O <sub>2</sub> process enhanced via vacuum ultraviolet irradiation: Role of newly formed Fe <sup>2+</sup> . <i>Chemosphere</i> , 2022, 286, 131964.	8.2	13
50	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
51	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
52	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
53	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
54	Rapid degradation of norfloxacin by VUV/Fe <sup>2+</sup> /H <sub>2</sub> O <sub>2</sub> over a wide initial pH: Process parameters, synergistic mechanism, and influencing factors. <i>Journal of Hazardous Materials</i> , 2021, 416, 125893.	12.4	10

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55	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
56	Separable and reactivated magnetic mZVAL/nFe <sub>3</sub> O <sub>4</sub> 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
57	Enhanced adsorption of As(III) on chemically modified activated carbon fibers. <i>Applied Water Science</i> , 2019, 9, 1.	5.6	6
58	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
59	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
60	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
61	Selective adsorption of anions on hydrotalcite-like compounds derived from drinking water treatment residuals. <i>Chemosphere</i> , 2022, 300, 134508.	8.2	4
62	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
63	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