Zeng-Hui Diao

List of Publications by Year
in descending order

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68 papers	4,382 citations	81743 39 h-index	106150 65 g-index
69 all docs	69 docs citations	69 times ranked	3915 citing authors

#	Article	IF	Citations
1	Sorption and desorption of phenanthrene on biodegradable poly(butylene adipate co-terephtalate) microplastics. Chemosphere, 2019, 215, 25-32.	4.2	204
2	Bentonite-supported nanoscale zero-valent iron/persulfate system for the simultaneous removal of Cr(VI) and phenol from aqueous solutions. Chemical Engineering Journal, 2016, 302, 213-222.	6.6	195
3	Tissue distribution, bioaccumulation characteristics and health risk of antibiotics in cultured fish from a typical aquaculture area. Journal of Hazardous Materials, 2018, 343, 140-148.	6.5	160
4	Adsorption of phosphorus by calcium-flour biochar: Isotherm, kinetic and transformation studies. Chemosphere, 2018, 195, 666-672.	4.2	156
5	Comparative study of Rhodamine B degradation by the systems pyrite/H 2 O 2 and pyrite/persulfate: Reactivity, stability, products and mechanism. Separation and Purification Technology, 2017, 184, 374-383.	3.9	155
6	Simultaneous removal of Cu2+ and bisphenol A by a novel biochar-supported zero valent iron from aqueous solution: Synthesis, reactivity and mechanism. Environmental Pollution, 2018, 239, 698-705.	3.7	146
7	Insights into the simultaneous removal of Cr6+ and Pb2+ by a novel sewage sludge-derived biochar immobilized nanoscale zero valent iron: Coexistence effect and mechanism. Science of the Total Environment, 2018, 642, 505-515.	3.9	146
8	Simultaneous adsorption of Cr(VI) and phenol by biochar-based iron oxide composites in water: Performance, kinetics and mechanism. Journal of Hazardous Materials, 2021, 416, 125930.	6.5	138
9	Uranium extraction using hydroxyapatite recovered from phosphorus containing wastewater. Journal of Hazardous Materials, 2020, 382, 120784.	6.5	131
10	Simultaneous removal of Cr(VI) and phenol by persulfate activated with bentonite-supported nanoscale zero-valent iron: Reactivity and mechanism. Journal of Hazardous Materials, 2016, 316, 186-193.	6.5	129
11	Enhanced catalytic degradation of ciprofloxacin with FeS2/SiO2 microspheres as heterogeneous Fenton catalyst: Kinetics, reaction pathways and mechanism. Journal of Hazardous Materials, 2017, 327, 108-115.	6.5	122
12	Peroxymonosulfate activation through LED-induced ZnFe2O4 for levofloxacin degradation. Chemical Engineering Journal, 2021, 417, 129225.	6.6	118
13	Ultrasound assisted zero valent iron corrosion for peroxymonosulfate activation for Rhodamine-B degradation. Chemosphere, 2019, 228, 412-417.	4.2	114
14	Synergistic oxidation of Bisphenol A in a heterogeneous ultrasound-enhanced sludge biochar catalyst/persulfate process: Reactivity and mechanism. Journal of Hazardous Materials, 2020, 384, 121385.	6.5	110
15	Photo-assisted degradation of bisphenol A by a novel FeS2@SiO2 microspheres activated persulphate process: Synergistic effect, pathway and mechanism. Chemical Engineering Journal, 2018, 349, 683-693.	6.6	109
16	Visible light induced photocatalytic reduction of Cr(VI) over polymer-sensitized TiO2 and its synergism with phenol oxidation. Water Research, 2012, 46, 2299-2306.	5.3	100
17	Carbothermal reduction for preparing nZVI/BC to extract uranium: Insight into the iron species dependent uranium adsorption behavior. Journal of Cleaner Production, 2019, 239, 117873.	4.6	100
18	Effects of dissolved oxygen, salinity, nitrogen and phosphorus on the release of heavy metals from coastal sediments. Science of the Total Environment, 2019, 666, 894-901.	3.9	87

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19	Simultaneous photocatalytic Cr(VI) reduction and ciprofloxacin oxidation over TiO 2 /Fe 0 composite under aerobic conditions: Performance, durability, pathway and mechanism. Chemical Engineering Journal, 2017, 315, 167-176.	6.6	78
20	Contamination level, chemical fraction and ecological risk of heavy metals in sediments from Daya Bay, South China Sea. Marine Pollution Bulletin, 2018, 128, 132-139.	2.3	78
21	Silane-based coatings on the pyrite for remediation of acid mine drainage. Water Research, 2013, 47, 4391-4402.	5.3	76
22	Green and facile synthesis of cobalt-based metalâ€“organic frameworks for the efficient removal of Congo red from aqueous solution. Journal of Colloid and Interface Science, 2020, 578, 500-509.	5.0	76
23	Photocatalytic degradation of malachite green by pyrite and its synergism with Cr(VI) reduction: Performance and reaction mechanism. Separation and Purification Technology, 2015, 154, 168-175.	3.9	74
24	Brominated flame retardants in mangrove sediments of the Pearl River Estuary, South China: Spatial distribution, temporal trend and mass inventory. Chemosphere, 2015, 123, 26-32.	4.2	69
25	In Situ Coprecipitation Formed Highly Water-Dispersible Magnetic Chitosan Nanopowder for Removal of Heavy Metals and Its Adsorption Mechanism. ACS Sustainable Chemistry and Engineering, 2018, 6, 16754-16765.	3.2	68
26	Removal of herbicide atrazine by a novel biochar based iron composite coupling with peroxymonosulfate process from soil: Synergistic effect and mechanism. Chemical Engineering Journal, 2021, 409, 127684.	6.6	67
27	Nano-rod Ca-decorated sludge derived carbon for removal of phosphorus. Environmental Pollution, 2018, 233, 698-705.	3.7	65
28	A porous biochar supported nanoscale zero-valent iron material highly efficient for the simultaneous remediation of cadmium and lead contaminated soil. Journal of Environmental Sciences, 2022, 113, 231-241.	3.2	64
29	Removals of Cr(VI) and Cd(II) by a novel nanoscale zero valent iron/peroxydisulfate process and its Fenton-like oxidation of pesticide atrazine: Coexisting effect, products and mechanism. Chemical Engineering Journal, 2020, 397, 125382.	6.6	63
30	FeS2 assisted degradation of atrazine by bentonite-supported nZVI coupling with hydrogen peroxide process in water: Performance and mechanism. Science of the Total Environment, 2021, 754, 142155.	3.9	60
31	Review on the synthesis and activity of iron-based catalyst in catalytic oxidation of refractory organic pollutants in wastewater. Journal of Cleaner Production, 2021, 321, 128924.	4.6	59
32	Degradation of 2,4-dichlorophenol by a novel iron based system and its synergism with Cd(II) immobilization in a contaminated soil. Chemical Engineering Journal, 2020, 379, 122313.	6.6	58
33	Phase migration and transformation of uranium in mineralized immobilization by wasted bio-hydroxyapatite. Journal of Cleaner Production, 2018, 197, 886-894.	4.6	57
34	Solvent-free hydrothermal synthesis of gamma-aluminum oxide nanoparticles with selective adsorption of Congo red. Journal of Colloid and Interface Science, 2019, 536, 180-188.	5.0	56
35	Environmental-friendly preparation of Niâ€“Co layered double hydroxide (LDH) hierarchical nanoarrays for efficient removing uranium (VI). Journal of Cleaner Production, 2021, 308, 127384.	4.6	56
36	Ultrasound-assisted heterogeneous activation of peroxymonosulphate by natural pyrite for 2,4-diclorophenol degradation in water: Synergistic effects, pathway and mechanism. Chemical Engineering Journal, 2020, 389, 123771.	6.6	55

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37	Degradation pathway of malachite green in a novel dual-tank photoelectrochemical catalytic reactor. Journal of Hazardous Materials, 2013, 260, 585-592.	6.5	48
38	Synergistic reduction of copper (II) and oxidation of norfloxacin over a novel sewage sludge-derived char-based catalyst: Performance, fate and mechanism. Journal of Cleaner Production, 2018, 182, 794-804.	4.6	47
39	Removal of levofloxacin through adsorption and peroxymonosulfate activation using carbothermal reduction synthesized nZVI/carbon fiber. Chemosphere, 2021, 280, 130626.	4.2	45
40	Insights on the nitrate reduction and norfloxacin oxidation over a novel nanoscale zero valent iron particle: Reactivity, products, and mechanism. Science of the Total Environment, 2019, 660, 541-549.	3.9	39
41	Removal of antibiotics sulfadiazine by a biochar based material activated persulfate oxidation system: Performance, products and mechanism. Chemical Engineering Research and Design, 2022, 157, 411-419.	2.7	37
42	An Efficient Photocatalyst for Fast Reduction of Cr(VI) by Ultra-Trace Silver Enhanced Titania in Aqueous Solution. Catalysts, 2018, 8, 251.	1.6	36
43	Phosphate enhanced uranium stable immobilization on biochar supported nano zero valent iron. Journal of Hazardous Materials, 2022, 424, 127119.	6.5	33
44	Ultrasound-assisted catalytic reduction of Cr(VI) by an acid mine drainage based nZVI coupling with FeS2 system from aqueous solutions: Performance and mechanism. Journal of Environmental Management, 2021, 278, 111518.	3.8	32
45	Peroxymonosulfate-assisted photocatalytic degradation of antibiotic norfloxacin by a calcium-based Ag3PO4 composite in water: Reactivity, products and mechanism. Journal of Cleaner Production, 2022, 330, 129806.	4.6	32
46	Photocatalytic removal of phenanthrene and algae by a novel Ca-Ag3PO4 composite under visible light: Reactivity and coexisting effect. Chemosphere, 2019, 221, 511-518.	4.2	28
47	Insights into the removal of Cr(VI) by a biocharâ€“iron composite from aqueous solution: Reactivity, kinetics and mechanism. Environmental Technology and Innovation, 2021, 24, 102057.	3.0	27
48	Subsurface low dissolved oxygen occurred at fresh- and saline-water intersection of the Pearl River estuary during the summer period. Marine Pollution Bulletin, 2018, 126, 585-591.	2.3	26
49	A new insight on enhanced Pb(II) removal by sludge biochar catalyst coupling with ultrasound irradiation and its synergism with phenol removal. Chemosphere, 2021, 263, 128287.	4.2	26
50	Recovery of phosphorus rich krill shell biowaste for uranium immobilization: A study of sorption behavior, surface reaction, and phase transformation. Environmental Pollution, 2018, 243, 630-636.	3.7	24
51	Synthesis of FC-supported Fe through a carbothermal process for immobilizing uranium. Journal of Hazardous Materials, 2018, 357, 168-174.	6.5	22
52	Co-cultivation of Rhodotorula glutinis and Chlorella pyrenoidosa to improve nutrient removal and protein content by their synergistic relationship. RSC Advances, 2019, 9, 14331-14342.	1.7	22
53	In situ arsenic speciation and the release kinetics in coastal sediments: A case study in Daya Bay, South China Sea. Science of the Total Environment, 2019, 650, 2221-2230.	3.9	22
54	Simultaneous degradation of amoxicillin and norfloxacin by TiO2@nZVI composites coupling with persulfate: Synergistic effect, products and mechanism. Separation and Purification Technology, 2021, 278, 119620.	3.9	22

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55	Synthesis of recoverable and reusable granular MgO-SCCA-Zn hybrid ozonation catalyst for degradation of methylene blue. Journal of Environmental Chemical Engineering, 2016, 4, 4385-4391.	3.3	21
56	Removal of uranium from aqueous solution by two-dimensional electrosorption reactor. Environmental Technology and Innovation, 2017, 8, 57-63.	3.0	21
57	Synchronous removal of Cr(VI) and phosphates by a novel crayfish shell biochar-Fe composite from aqueous solution: Reactivity and mechanism. Journal of Environmental Chemical Engineering, 2022, 10, 107396.	3.3	21
58	Producing sawdust derived activated carbon by co-calcinations with limestone for enhanced Acid Orange II adsorption. Journal of Cleaner Production, 2017, 168, 22-29.	4.6	20
59	Efficiency of different types of biochars to mitigate Cd stress and growth of sunflower (Helianthus;) Tj ETQq1 1 0.784314 rgBT /Overlock	1.8	19
60	Comparative role of animal manure and vegetable waste induced compost for polluted soil restoration and maize growth. Saudi Journal of Biological Sciences, 2021, 28, 2534-2539.	1.8	19
61	Spatial and Vertical Distribution of Dechlorane Plus in Mangrove Sediments of the Pearl River Estuary, South China. Archives of Environmental Contamination and Toxicology, 2016, 71, 359-364.	2.1	17
62	Advanced treatment of dye wastewater using a novel integrative Fenton-like/MnO2-filled upward flow biological filter bed system equipped with modified ceramsite. Environmental Research, 2021, 194, 110641.	3.7	17
63	Application of Zinc and Iron-Based Fertilizers Improves the Growth Attributes, Productivity, and Grain Quality of Two Wheat (Triticum aestivum) Cultivars. Frontiers in Nutrition, 2021, 8, 779595.	1.6	17
64	The role of different organic amendments to improve maize growth in wastewater irrigated soil. Journal of King Saud University - Science, 2021, 33, 101583.	1.6	12
65	Accelerated phosphorus recovery from aqueous solution onto decorated sewage sludge carbon. Scientific Reports, 2018, 8, 13421.	1.6	11
66	Foliar application of potassium and moringa leaf extract improves growth, physiology and productivity of kabuli chickpea grown under varying sowing regimes. PLoS ONE, 2022, 17, e0263323.	1.1	9
67	Coupling template nanocasting and self-activation for fabrication of nanoporous carbon. Scientific Reports, 2016, 6, 38176.	1.6	8
68	Temperature responsiveness of soil carbon fractions, microbes, extracellular enzymes and CO₂ emission: mitigating role of texture. PeerJ, 2022, 10, e13151.	0.9	3