

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
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all docs

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docs citations

69
times ranked

3915
citing authors

#	ARTICLE	IF	CITATIONS
1	A porous biochar supported nanoscale zero-valent iron material highly efficient for the simultaneous remediation of cadmium and lead contaminated soil. <i>Journal of Environmental Sciences</i> , 2022, 113, 231-241.	3.2	64
2	Phosphate enhanced uranium stable immobilization on biochar supported nano zero valent iron. <i>Journal of Hazardous Materials</i> , 2022, 424, 127119.	6.5	33
3	Peroxymonosulfate-assisted photocatalytic degradation of antibiotic norfloxacin by a calcium-based Ag ₃ PO ₄ composite in water: Reactivity, products and mechanism. <i>Journal of Cleaner Production</i> , 2022, 330, 129806.	4.6	32
4	Removal of antibiotics sulfadiazine by a biochar based material activated persulfate oxidation system: Performance, products and mechanism. <i>Chemical Engineering Research and Design</i> , 2022, 157, 411-419.	2.7	37
5	Foliar application of potassium and moringa leaf extract improves growth, physiology and productivity of kabuli chickpea grown under varying sowing regimes. <i>PLoS ONE</i> , 2022, 17, e0263323.	1.1	9
6	Synchronous removal of Cr(VI) and phosphates by a novel crayfish shell biochar-Fe composite from aqueous solution: Reactivity and mechanism. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107396.	3.3	21
7	Temperature responsiveness of soil carbon fractions, microbes, extracellular enzymes and CO ₂ emission: mitigating role of texture. <i>PeerJ</i> , 2022, 10, e13151.	0.9	3
8	A new insight on enhanced Pb(II) removal by sludge biochar catalyst coupling with ultrasound irradiation and its synergism with phenol removal. <i>Chemosphere</i> , 2021, 263, 128287.	4.2	26
9	Removal of herbicide atrazine by a novel biochar based iron composite coupling with peroxymonosulfate process from soil: Synergistic effect and mechanism. <i>Chemical Engineering Journal</i> , 2021, 409, 127684.	6.6	67
10	FeS ₂ assisted degradation of atrazine by bentonite-supported nZVI coupling with hydrogen peroxide process in water: Performance and mechanism. <i>Science of the Total Environment</i> , 2021, 754, 142155.	3.9	60
11	Ultrasound-assisted catalytic reduction of Cr(VI) by an acid mine drainage based nZVI coupling with FeS ₂ system from aqueous solutions: Performance and mechanism. <i>Journal of Environmental Management</i> , 2021, 278, 111518.	3.8	32
12	Advanced treatment of dye wastewater using a novel integrative Fenton-like/MnO ₂ -filled upward flow biological filter bed system equipped with modified ceramsite. <i>Environmental Research</i> , 2021, 194, 110641.	3.7	17
13	Efficiency of different types of biochars to mitigate Cd stress and growth of sunflower (<i>Helianthus;</i>) Tj ETQq1 1 0.784314 rgBT /Overl 1.8 19		
14	Comparative role of animal manure and vegetable waste induced compost for polluted soil restoration and maize growth. <i>Saudi Journal of Biological Sciences</i> , 2021, 28, 2534-2539.	1.8	19
15	Environmental-friendly preparation of Ni-Co layered double hydroxide (LDH) hierarchical nanoarrays for efficient removing uranium (VI). <i>Journal of Cleaner Production</i> , 2021, 308, 127384.	4.6	56
16	Simultaneous adsorption of Cr(VI) and phenol by biochar-based iron oxide composites in water: Performance, kinetics and mechanism. <i>Journal of Hazardous Materials</i> , 2021, 416, 125930.	6.5	138
17	Peroxymonosulfate activation through LED-induced ZnFe ₂ O ₄ for levofloxacin degradation. <i>Chemical Engineering Journal</i> , 2021, 417, 129225.	6.6	118
18	Removal of levofloxacin through adsorption and peroxymonosulfate activation using carbothermal reduction synthesized nZVI/carbon fiber. <i>Chemosphere</i> , 2021, 280, 130626.	4.2	45

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19	Review on the synthesis and activity of iron-based catalyst in catalytic oxidation of refractory organic pollutants in wastewater. <i>Journal of Cleaner Production</i> , 2021, 321, 128924.	4.6	59
20	The role of different organic amendments to improve maize growth in wastewater irrigated soil. <i>Journal of King Saud University - Science</i> , 2021, 33, 101583.	1.6	12
21	Simultaneous degradation of amoxicillin and norfloxacin by TiO ₂ @nZVI composites coupling with persulfate: Synergistic effect, products and mechanism. <i>Separation and Purification Technology</i> , 2021, 278, 119620.	3.9	22
22	Insights into the removal of Cr(VI) by a biochar-iron composite from aqueous solution: Reactivity, kinetics and mechanism. <i>Environmental Technology and Innovation</i> , 2021, 24, 102057.	3.0	27
23	Application of Zinc and Iron-Based Fertilizers Improves the Growth Attributes, Productivity, and Grain Quality of Two Wheat (<i>Triticum aestivum</i>) Cultivars. <i>Frontiers in Nutrition</i> , 2021, 8, 779595.	1.6	17
24	Uranium extraction using hydroxyapatite recovered from phosphorus containing wastewater. <i>Journal of Hazardous Materials</i> , 2020, 382, 120784.	6.5	131
25	Synergistic oxidation of Bisphenol A in a heterogeneous ultrasound-enhanced sludge biochar catalyst/persulfate process: Reactivity and mechanism. <i>Journal of Hazardous Materials</i> , 2020, 384, 121385.	6.5	110
26	Degradation of 2,4-dichlorophenol by a novel iron based system and its synergism with Cd(II) immobilization in a contaminated soil. <i>Chemical Engineering Journal</i> , 2020, 379, 122313.	6.6	58
27	Ultrasound-assisted heterogeneous activation of peroxymonosulphate by natural pyrite for 2,4-dichlorophenol degradation in water: Synergistic effects, pathway and mechanism. <i>Chemical Engineering Journal</i> , 2020, 389, 123771.	6.6	55
28	Green and facile synthesis of cobalt-based metal-organic frameworks for the efficient removal of Congo red from aqueous solution. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 500-509.	5.0	76
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. <i>Chemical Engineering Journal</i> , 2020, 397, 125382.	6.6	63
30	Carbothermal reduction for preparing nZVI/BC to extract uranium: Insight into the iron species dependent uranium adsorption behavior. <i>Journal of Cleaner Production</i> , 2019, 239, 117873.	4.6	100
31	Co-cultivation of <i>Rhodotorula glutinis</i> and <i>Chlorella pyrenoidosa</i> to improve nutrient removal and protein content by their synergistic relationship. <i>RSC Advances</i> , 2019, 9, 14331-14342.	1.7	22
32	Ultrasound assisted zero valent iron corrosion for peroxymonosulfate activation for Rhodamine-B degradation. <i>Chemosphere</i> , 2019, 228, 412-417.	4.2	114
33	Effects of dissolved oxygen, salinity, nitrogen and phosphorus on the release of heavy metals from coastal sediments. <i>Science of the Total Environment</i> , 2019, 666, 894-901.	3.9	87
34	Photocatalytic removal of phenanthrene and algae by a novel Ca-Ag ₃ PO ₄ composite under visible light: Reactivity and coexisting effect. <i>Chemosphere</i> , 2019, 221, 511-518.	4.2	28
35	Insights on the nitrate reduction and norfloxacin oxidation over a novel nanoscale zero valent iron particle: Reactivity, products, and mechanism. <i>Science of the Total Environment</i> , 2019, 660, 541-549.	3.9	39
36	Solvent-free hydrothermal synthesis of gamma-aluminum oxide nanoparticles with selective adsorption of Congo red. <i>Journal of Colloid and Interface Science</i> , 2019, 536, 180-188.	5.0	56

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37	Sorption and desorption of phenanthrene on biodegradable poly(butylene adipate co-terephthalate) microplastics. <i>Chemosphere</i> , 2019, 215, 25-32.	4.2	204
38	In situ arsenic speciation and the release kinetics in coastal sediments: A case study in Daya Bay, South China Sea. <i>Science of the Total Environment</i> , 2019, 650, 2221-2230.	3.9	22
39	Contamination level, chemical fraction and ecological risk of heavy metals in sediments from Daya Bay, South China Sea. <i>Marine Pollution Bulletin</i> , 2018, 128, 132-139.	2.3	78
40	Synergistic reduction of copper (II) and oxidation of norfloxacin over a novel sewage sludge-derived char-based catalyst: Performance, fate and mechanism. <i>Journal of Cleaner Production</i> , 2018, 182, 794-804.	4.6	47
41	Adsorption of phosphorus by calcium-flour biochar: Isotherm, kinetic and transformation studies. <i>Chemosphere</i> , 2018, 195, 666-672.	4.2	156
42	Simultaneous removal of Cu ²⁺ and bisphenol A by a novel biochar-supported zero valent iron from aqueous solution: Synthesis, reactivity and mechanism. <i>Environmental Pollution</i> , 2018, 239, 698-705.	3.7	146
43	Subsurface low dissolved oxygen occurred at fresh- and saline-water intersection of the Pearl River estuary during the summer period. <i>Marine Pollution Bulletin</i> , 2018, 126, 585-591.	2.3	26
44	Tissue distribution, bioaccumulation characteristics and health risk of antibiotics in cultured fish from a typical aquaculture area. <i>Journal of Hazardous Materials</i> , 2018, 343, 140-148.	6.5	160
45	Nano-rod Ca-decorated sludge derived carbon for removal of phosphorus. <i>Environmental Pollution</i> , 2018, 233, 698-705.	3.7	65
46	In Situ Coprecipitation Formed Highly Water-Dispersible Magnetic Chitosan Nanopowder for Removal of Heavy Metals and Its Adsorption Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 16754-16765.	3.2	68
47	Recovery of phosphorus rich krill shell biowaste for uranium immobilization: A study of sorption behavior, surface reaction, and phase transformation. <i>Environmental Pollution</i> , 2018, 243, 630-636.	3.7	24
48	Accelerated phosphorus recovery from aqueous solution onto decorated sewage sludge carbon. <i>Scientific Reports</i> , 2018, 8, 13421.	1.6	11
49	Synthesis of FC-supported Fe through a carbothermal process for immobilizing uranium. <i>Journal of Hazardous Materials</i> , 2018, 357, 168-174.	6.5	22
50	Phase migration and transformation of uranium in mineralized immobilization by wasted bio-hydroxyapatite. <i>Journal of Cleaner Production</i> , 2018, 197, 886-894.	4.6	57
51	Insights into the simultaneous removal of Cr ⁶⁺ and Pb ²⁺ by a novel sewage sludge-derived biochar immobilized nanoscale zero valent iron: Coexistence effect and mechanism. <i>Science of the Total Environment</i> , 2018, 642, 505-515.	3.9	146
52	An Efficient Photocatalyst for Fast Reduction of Cr(VI) by Ultra-Trace Silver Enhanced Titania in Aqueous Solution. <i>Catalysts</i> , 2018, 8, 251.	1.6	36
53	Photo-assisted degradation of bisphenol A by a novel FeS ₂ @SiO ₂ microspheres activated persulphate process: Synergistic effect, pathway and mechanism. <i>Chemical Engineering Journal</i> , 2018, 349, 683-693.	6.6	109
54	Simultaneous photocatalytic Cr(VI) reduction and ciprofloxacin oxidation over TiO ₂ /Fe ₃ O ₄ composite under aerobic conditions: Performance, durability, pathway and mechanism. <i>Chemical Engineering Journal</i> , 2017, 315, 167-176.	6.6	78

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55	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
56	Removal of uranium from aqueous solution by two-dimensional electrosorption reactor. Environmental Technology and Innovation, 2017, 8, 57-63.	3.0	21
57	Enhanced catalytic degradation of ciprofloxacin with FeS ₂ /SiO ₂ microspheres as heterogeneous Fenton catalyst: Kinetics, reaction pathways and mechanism. Journal of Hazardous Materials, 2017, 327, 108-115.	6.5	122
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	Coupling template nanocasting and self-activation for fabrication of nanoporous carbon. Scientific Reports, 2016, 6, 38176.	1.6	8
60	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
61	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
62	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
63	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
64	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
65	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
66	Degradation pathway of malachite green in a novel dual-tank photoelectrochemical catalytic reactor. Journal of Hazardous Materials, 2013, 260, 585-592.	6.5	48
67	Silane-based coatings on the pyrite for remediation of acid mine drainage. Water Research, 2013, 47, 4391-4402.	5.3	76
68	Visible light induced photocatalytic reduction of Cr(VI) over polymer-sensitized TiO ₂ and its synergism with phenol oxidation. Water Research, 2012, 46, 2299-2306.	5.3	100