

Feng He

List of Publications by Year in descending order

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89
papers

10,247
citations

44069

48
h-index

48315

88
g-index

91
all docs

91
docs citations

91
times ranked

8759
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface functional groups of carbon-based adsorbents and their roles in the removal of heavy metals from aqueous solutions: A critical review. <i>Chemical Engineering Journal</i> , 2019, 366, 608-621.	12.7	790
2	Preparation and Characterization of a New Class of Starch-Stabilized Bimetallic Nanoparticles for Degradation of Chlorinated Hydrocarbons in Water. <i>Environmental Science & Technology</i> , 2005, 39, 3314-3320.	10.0	736
3	Stabilization of Fe~Pd Nanoparticles with Sodium Carboxymethyl Cellulose for Enhanced Transport and Dechlorination of Trichloroethylene in Soil and Groundwater. <i>Industrial & Engineering Chemistry Research</i> , 2007, 46, 29-34.	3.7	586
4	Manipulating the Size and Dispersibility of Zerovalent Iron Nanoparticles by Use of Carboxymethyl Cellulose Stabilizers. <i>Environmental Science & Technology</i> , 2007, 41, 6216-6221.	10.0	510
5	Biochar technology in wastewater treatment: A critical review. <i>Chemosphere</i> , 2020, 252, 126539.	8.2	482
6	Field assessment of carboxymethyl cellulose stabilized iron nanoparticles for in situ destruction of chlorinated solvents in source zones. <i>Water Research</i> , 2010, 44, 2360-2370.	11.3	368
7	Effects of ball milling on the physicochemical and sorptive properties of biochar: Experimental observations and governing mechanisms. <i>Environmental Pollution</i> , 2018, 233, 54-63.	7.5	314
8	Adsorptive removal of arsenate from aqueous solutions by biochar supported zero-valent iron nanocomposite: Batch and continuous flow tests. <i>Journal of Hazardous Materials</i> , 2017, 322, 172-181.	12.4	263
9	Mechanochemically Sulfidated Microscale Zero Valent Iron: Pathways, Kinetics, Mechanism, and Efficiency of Trichloroethylene Dechlorination. <i>Environmental Science & Technology</i> , 2017, 51, 12653-12662.	10.0	262
10	Experimental and modeling investigations of ball-milled biochar for the removal of aqueous methylene blue. <i>Chemical Engineering Journal</i> , 2018, 335, 110-119.	12.7	262
11	Environmental occurrences, fate, and impacts of microplastics. <i>Ecotoxicology and Environmental Safety</i> , 2019, 184, 109612.	6.0	259
12	Transport of carboxymethyl cellulose stabilized iron nanoparticles in porous media: Column experiments and modeling. <i>Journal of Colloid and Interface Science</i> , 2009, 334, 96-102.	9.4	245
13	Dechlorination of Excess Trichloroethene by Bimetallic and Sulfidated Nanoscale Zero-Valent Iron. <i>Environmental Science & Technology</i> , 2018, 52, 8627-8637.	10.0	240
14	Composition and functional group characterization of extracellular polymeric substances (EPS) in activated sludge: the impacts of polymerization degree of proteinaceous substrates. <i>Water Research</i> , 2018, 129, 133-142.	11.3	232
15	Hydrodechlorination of trichloroethene using stabilized Fe-Pd nanoparticles: Reaction mechanism and effects of stabilizers, catalysts and reaction conditions. <i>Applied Catalysis B: Environmental</i> , 2008, 84, 533-540.	20.2	215
16	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO ₂ Electroreduction. <i>Advanced Functional Materials</i> , 2020, 30, 1907658.	14.9	210
17	Ball-Milled Carbon Nanomaterials for Energy and Environmental Applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 9568-9585.	6.7	187
18	Degradation of soil-sorbed trichloroethylene by stabilized zero valent iron nanoparticles: Effects of sorption, surfactants, and natural organic matter. <i>Water Research</i> , 2011, 45, 2401-2414.	11.3	180

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19	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). <i>Chemical Engineering Journal</i> , 2020, 385, 123842.	12.7	176
20	Immobilization of mercury in sediment using stabilized iron sulfide nanoparticles. <i>Water Research</i> , 2009, 43, 5171-5179.	11.3	163
21	Enhanced lead and cadmium removal using biochar-supported hydrated manganese oxide (HMO) nanoparticles: Behavior and mechanism. <i>Science of the Total Environment</i> , 2018, 616-617, 1298-1306.	8.0	163
22	Rapid and highly selective removal of lead from water using graphene oxide-hydrated manganese oxide nanocomposites. <i>Journal of Hazardous Materials</i> , 2016, 314, 32-40.	12.4	155
23	Reclaiming phosphorus from secondary treated municipal wastewater with engineered biochar. <i>Chemical Engineering Journal</i> , 2019, 362, 460-468.	12.7	136
24	Ball milling biochar iron oxide composites for the removal of chromium (Cr(VI)) from water: Performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2021, 413, 125252.	12.4	135
25	Solvent-free synthesis of magnetic biochar and activated carbon through ball-mill extrusion with Fe ₃ O ₄ nanoparticles for enhancing adsorption of methylene blue. <i>Science of the Total Environment</i> , 2020, 722, 137972.	8.0	131
26	In situ testing of metallic iron nanoparticle mobility and reactivity in a shallow granular aquifer. <i>Journal of Contaminant Hydrology</i> , 2010, 116, 35-46.	3.3	125
27	Insight into the kinetics and mechanism of removal of aqueous chlorinated nitroaromatic antibiotic chloramphenicol by nanoscale zero-valent iron. <i>Chemical Engineering Journal</i> , 2018, 334, 508-518.	12.7	123
28	Recent Advances in Sulfidated Zerovalent Iron for Contaminant Transformation. <i>Environmental Science & Technology</i> , 2021, 55, 8464-8483.	10.0	123
29	Role of dissolved Mn(III) in transformation of organic contaminants: Non-oxidative versus oxidative mechanisms. <i>Water Research</i> , 2017, 111, 234-243.	11.3	115
30	Chromium(VI) removal by mechanochemically sulfidated zero valent iron and its effect on dechlorination of trichloroethene as a co-contaminant. <i>Science of the Total Environment</i> , 2019, 650, 419-426.	8.0	108
31	In situ remediation technologies for mercury-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8124-8147.	5.3	102
32	Sulfidation mitigates the passivation of zero valent iron at alkaline pHs: Experimental evidences and mechanism. <i>Water Research</i> , 2019, 159, 233-241.	11.3	97
33	Rapid Removal of Hg(II) from Aqueous Solutions Using Thiol-Functionalized Zn-Doped Biomagnetite Particles. <i>ACS Applied Materials & Interfaces</i> , 2012, 4, 4373-4379.	8.0	96
34	Highly Boosted Reaction Kinetics in Carbon Dioxide Electroreduction by Surface-Introduced Electronegative Dopants. <i>Advanced Functional Materials</i> , 2021, 31, 2008146.	14.9	88
35	Degradation of Trichloroethene with a Novel Ball Milled Fe-C Nanocomposite. <i>Journal of Hazardous Materials</i> , 2015, 300, 443-450.	12.4	87
36	Polysugar-Stabilized Pd Nanoparticles Exhibiting High Catalytic Activities for Hydrodechlorination of Environmentally Deleterious Trichloroethylene. <i>Langmuir</i> , 2008, 24, 328-336.	3.5	85

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37	Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO ₂ electroreduction. <i>Carbon</i> , 2019, 150, 52-59.	10.3	84
38	Carboxymethyl cellulose stabilized and sulfidated nanoscale zero-valent iron: Characterization and trichloroethene dechlorination. <i>Applied Catalysis B: Environmental</i> , 2020, 262, 118303.	20.2	81
39	Precise Seed-Mediated Growth and Size-Controlled Synthesis of Palladium Nanoparticles Using a Green Chemistry Approach. <i>Langmuir</i> , 2009, 25, 7116-7128.	3.5	80
40	Manganese oxide nanoparticles impregnated graphene oxide aggregates for cadmium and copper remediation. <i>Chemical Engineering Journal</i> , 2018, 350, 1135-1143.	12.7	77
41	Sulfidation of Zero-Valent Iron by Direct Reaction with Elemental Sulfur in Water: Efficiencies, Mechanism, and Dechlorination of Trichloroethylene. <i>Environmental Science & Technology</i> , 2021, 55, 645-654.	10.0	69
42	A Universal Principle to Accurately Synthesize Atomically Dispersed Metal- ⁴ N ₄ Sites for CO ₂ Electroreduction. <i>Nano-Micro Letters</i> , 2020, 12, 108.	27.0	65
43	One-Step "Green" Synthesis of Pd Nanoparticles of Controlled Size and Their Catalytic Activity for Trichloroethene Hydrodechlorination. <i>Industrial & Engineering Chemistry Research</i> , 2009, 48, 6550-6557.	3.7	64
44	Transport of stabilized iron nanoparticles in porous media: Effects of surface and solution chemistry and role of adsorption. <i>Journal of Hazardous Materials</i> , 2017, 322, 284-291.	12.4	63
45	Time-Dependent Density Functional Theory Assessment of UV Absorption of Benzoic Acid Derivatives. <i>Journal of Physical Chemistry A</i> , 2012, 116, 11870-11879.	2.5	55
46	Accelerated antimony and copper removal by manganese oxide embedded in biochar with enlarged pore structure. <i>Chemical Engineering Journal</i> , 2020, 402, 126021.	12.7	55
47	Coincorporation of N and S into Zero-Valent Iron to Enhance TCE Dechlorination: Kinetics, Electron Efficiency, and Dechlorination Capacity. <i>Environmental Science & Technology</i> , 2021, 55, 16088-16098.	10.0	53
48	Bi/Bi ₂ O ₃ nanoparticles supported on N-doped reduced graphene oxide for highly efficient CO ₂ electroreduction to formate. <i>Chinese Chemical Letters</i> , 2020, 31, 1415-1421.	9.0	51
49	Quantifying the efficiency and selectivity of organohalide dechlorination by zerovalent iron. <i>Environmental Sciences: Processes and Impacts</i> , 2020, 22, 528-542.	3.5	51
50	Degradation kinetics and mechanisms of phenol in photo-Fenton process. <i>Journal of Zhejiang University Science B</i> , 2004, 5, 198-205.	0.4	51
51	FeN _X (C)-Coated Microscale Zero-Valent Iron for Fast and Stable Trichloroethylene Dechlorination in both Acidic and Basic pH Conditions. <i>Environmental Science & Technology</i> , 2021, 55, 5393-5402.	10.0	49
52	Photochemical Oxidation of Dissolved Elemental Mercury by Carbonate Radicals in Water. <i>Environmental Science and Technology Letters</i> , 2014, 1, 499-503.	8.7	48
53	Enhanced Fluoride Removal from Water by Nanoporous Biochar-Supported Magnesium Oxide. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 9988-9996.	3.7	46
54	Arsenic (III) removal by mechanochemically sulfidated microscale zero valent iron under anoxic and oxic conditions. <i>Water Research</i> , 2021, 198, 117132.	11.3	45

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55	Oxygen-Content-Controllable Graphene Oxide from Electron-Beam-Irradiated Graphite: Synthesis, Characterization, and Removal of Aqueous Lead [Pb(II)]. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 25289-25296.	8.0	44
56	Adsorption of acetone and cyclohexane onto CO ₂ activated hydrochars. <i>Chemosphere</i> , 2020, 245, 125664.	8.2	43
57	Ultrafast sequestration of cadmium and lead from water by manganese oxide supported on a macro-mesoporous biochar. <i>Chemical Engineering Journal</i> , 2020, 387, 124095.	12.7	38
58	Mechanistic role of nitrate anion in TCE dechlorination by ball milled ZVI and sulfidated ZVI: Experimental investigation and theoretical analysis. <i>Journal of Hazardous Materials</i> , 2021, 403, 123844.	12.4	38
59	Mercury photolytic transformation affected by low-molecular-weight natural organics in water. <i>Science of the Total Environment</i> , 2012, 416, 429-435.	8.0	30
60	Ball-milled biochar for alternative carbon electrode. <i>Environmental Science and Pollution Research</i> , 2019, 26, 14693-14702.	5.3	30
61	Sulfidation enhances stability and mobility of carboxymethyl cellulose stabilized nanoscale zero-valent iron in saturated porous media. <i>Science of the Total Environment</i> , 2020, 718, 137427.	8.0	30
62	Insight into the fenton-induced degradation process of extracellular polymeric substances (EPS) extracted from activated sludge. <i>Chemosphere</i> , 2019, 234, 318-327.	8.2	28
63	Metal Foam-Based Fenton-Like Process by Aeration. <i>ACS Omega</i> , 2017, 2, 6104-6111.	3.5	26
64	Tea waste-supported hydrated manganese dioxide (HMO) for enhanced removal of typical toxic metal ions from water. <i>RSC Advances</i> , 2015, 5, 88900-88907.	3.6	25
65	Effects of non-reducible dissolved solutes on reductive dechlorination of trichloroethylene by ball milled zero valent irons. <i>Journal of Hazardous Materials</i> , 2020, 396, 122620.	12.4	25
66	Highly Efficient Sulfonic/Carboxylic Dual- Acid Synergistic Catalysis for Esterification Enabled by Sulfur-Rich Graphene Oxide. <i>ChemSusChem</i> , 2017, 10, 3352-3357.	6.8	21
67	Foamed urea-formaldehyde microspheres for removal of heavy metals from aqueous solutions. <i>Chemosphere</i> , 2020, 241, 125004.	8.2	21
68	Phosphate removal by lead-exhausted bioadsorbents simultaneously achieving lead stabilization. <i>Chemosphere</i> , 2017, 168, 748-755.	8.2	20
69	Nanocarbon-based catalysts for esterification: Effect of carbon dimensionality and synergistic effect of the surface functional groups. <i>Carbon</i> , 2019, 147, 134-145.	10.3	19
70	Stability of hydrous ferric oxide nanoparticles encapsulated inside porous matrices: Effect of solution and matrix phase. <i>Chemical Engineering Journal</i> , 2018, 347, 870-876.	12.7	18
71	Formation of Soluble Mercury Oxide Coatings: Transformation of Elemental Mercury in Soils. <i>Environmental Science & Technology</i> , 2015, 49, 12105-12111.	10.0	17
72	Esterification of fatty acids from waste cooking oil to biodiesel over a sulfonated resin/PVA composite. <i>Catalysis Science and Technology</i> , 2016, 6, 5590-5598.	4.1	15

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73	Highly selective and ultrafast removal of cadmium and copper from water by magnetic core-shell microsphere. <i>Chemical Engineering Journal</i> , 2021, 405, 126576.	12.7	13
74	Mechanochemically Sulfidated Zero Valent Iron as an Efficient Fenton-like Catalyst for Degradation of Organic Contaminants. <i>Acta Chimica Sinica</i> , 2017, 75, 866.	1.4	13
75	Transformation of the phyllo-manganate vernadite to tectomanganates with small tunnel sizes: Favorable geochemical conditions and fate of associated Co. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 295, 224-236.	3.9	12
76	Preparation and characterization of activated aluminum powder by magnetic grinding method for hydrogen generation. <i>International Journal of Energy Research</i> , 2014, 38, 1016-1023.	4.5	10
77	Enhanced dechlorination of trichloroethene by sulfidated microscale zero-valent iron under low-frequency AC electromagnetic field. <i>Journal of Hazardous Materials</i> , 2022, 423, 127020.	12.4	10
78	Impact of dissolved O_2 on phenol oxidation by γ - MnO_2 . <i>Environmental Sciences: Processes and Impacts</i> , 2019, 21, 2118-2127.	3.5	9
79	Characterization of aerobic granules formed in an aspartic acid fed sequencing batch reactor under unfavorable hydrodynamic selection conditions. <i>Chemosphere</i> , 2020, 260, 127600.	8.2	9
80	Sorption of Non-ionic Aromatic Organics to Mineral Micropores: Interactive Effect of Cation Hydration and Mineral Charge Density. <i>Environmental Science & Technology</i> , 2019, 53, 3067-3077.	10.0	8
81	Response to Comment on "Manipulating the Size and Dispersibility of Zerovalent Iron Nanoparticles by Use of Carboxymethyl Cellulose Stabilizers". <i>Environmental Science & Technology</i> , 2008, 42, 3480-3480.	10.0	6
82	Catalytic activity of noble metal nanoparticles toward hydrodechlorination: influence of catalyst electronic structure and nature of adsorption. <i>Frontiers of Environmental Science and Engineering</i> , 2015, 9, 888-896.	6.0	6
83	Deciphering CaO-induced peroxydisulfate activation for destruction of halogenated organic pollutants in a low energy vibrational mill. <i>Chemical Engineering Journal</i> , 2022, 431, 134090.	12.7	6
84	Is polymeric substrate in influent an indirect impetus for the nitrification process in an activated sludge system?. <i>Chemosphere</i> , 2017, 177, 128-134.	8.2	4
85	The Application of Alginate Coated Iron Hydroxide for the Removal of Cu(II) and Phosphate. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3835.	2.5	4
86	Stabilization of Zero-Valent Iron Nanoparticles for Enhanced In Situ Destruction of Chlorinated Solvents in Soils and Groundwater. , 2014, , 491-501.		3
87	Synergetic degradation of benzotriazole by ultraviolet and ultrasound irradiation. <i>Desalination and Water Treatment</i> , 2016, 57, 17955-17962.	1.0	3
88	The degradation pathway of aminosilicone polymer in aqueous microemulsion by Fenton process. <i>Polymer Degradation and Stability</i> , 2013, 98, 464-470.	5.8	2
89	Stabilization of Zero-Valent Iron Nanoparticles for Enhanced In Situ Destruction of Chlorinated Solvents in Soils and Groundwater. , 2009, , 281-291.		1