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	Enhanced dechlorination of trichloroethene by sulfidated microscale zero-valent iron under low-frequency AC electromagnetic field. Journal of Hazardous Materials, 2022, 423, 127020.	12.4	10
2	Deciphering CaO-induced peroxydisulfate activation for destruction of halogenated organic pollutants in a low energy vibrational mill. Chemical Engineering Journal, 2022, 431, 134090.	12.7	6
3	Highly selective and ultrafast removal of cadmium and copper from water by magnetic core-shell microsphere. Chemical Engineering Journal, 2021, 405, 126576.	12.7	13
4	Sulfidation of Zero-Valent Iron by Direct Reaction with Elemental Sulfur in Water: Efficiencies, Mechanism, and Dechlorination of Trichloroethylene. Environmental Science & Technology, 2021, 55, 645-654.	10.0	69
5	Mechanistic role of nitrate anion in TCE dechlorination by ball milled ZVI and sulfidated ZVI: Experimental investigation and theoretical analysis. Journal of Hazardous Materials, 2021, 403, 123844.	12.4	38
6	Transformation of the phyllomanganate vernadite to tectomanganates with small tunnel sizes: Favorable geochemical conditions and fate of associated Co. Geochimica Et Cosmochimica Acta, 2021, 295, 224-236.	3.9	12
7	Highly Boosted Reaction Kinetics in Carbon Dioxide Electroreduction by Surfaceâ€Introduced Electronegative Dopants. Advanced Functional Materials, 2021, 31, 2008146.	14.9	88
8	FeN<i>_X</i>(C)-Coated Microscale Zero-Valent Iron for Fast and Stable Trichloroethylene Dechlorination in both Acidic and Basic pH Conditions. Environmental Science & Technology, 2021, 55, 5393-5402.	10.0	49
9	Arsenic (III) removal by mechanochemically sulfidated microscale zero valent iron under anoxic and oxic conditions. Water Research, 2021, 198, 117132.	11.3	45
10	Recent Advances in Sulfidated Zerovalent Iron for Contaminant Transformation. Environmental Science & Technology, 2021, 55, 8464-8483.	10.0	123
11	Ball milling biochar iron oxide composites for the removal of chromium (Cr(VI)) from water: Performance and mechanisms. Journal of Hazardous Materials, 2021, 413, 125252.	12.4	135
12	Coincorporation of N and S into Zero-Valent Iron to Enhance TCE Dechlorination: Kinetics, Electron Efficiency, and Dechlorination Capacity. Environmental Science & Technology, 2021, 55, 16088-16098.	10.0	53
13	Foamed urea-formaldehyde microspheres for removal of heavy metals from aqueous solutions. Chemosphere, 2020, 241, 125004.	8.2	21
14	Carboxymethyl cellulose stabilized and sulfidated nanoscale zero-valent iron: Characterization and trichloroethene dechlorination. Applied Catalysis B: Environmental, 2020, 262, 118303.	20.2	81
15	Atomically Defined Undercoordinated Active Sites for Highly Efficient CO₂ Electroreduction. Advanced Functional Materials, 2020, 30, 1907658.	14.9	210
16	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). Chemical Engineering Journal, 2020, 385, 123842.	12.7	176
17	Adsorption of acetone and cyclohexane onto CO2 activated hydrochars. Chemosphere, 2020, 245, 125664.	8.2	43
18	Characterization of aerobic granules formed in an aspartic acid fed sequencing batch reactor under unfavorable hydrodynamic selection conditions. Chemosphere, 2020, 260, 127600.	8.2	9

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19	A Universal Principle to Accurately Synthesize Atomically Dispersed Metalâ€“N4 Sites for CO2 Electroreduction. Nano-Micro Letters, 2020, 12, 108.	27.0	65
20	Bi/Bi2O3 nanoparticles supported on N-doped reduced graphene oxide for highly efficient CO2 electroreduction to formate. Chinese Chemical Letters, 2020, 31, 1415-1421.	9.0	51
21	Biochar technology in wastewater treatment: A critical review. Chemosphere, 2020, 252, 126539.	8.2	482
22	Solvent-free synthesis of magnetic biochar and activated carbon through ball-mill extrusion with Fe3O4 nanoparticles for enhancing adsorption of methylene blue. Science of the Total Environment, 2020, 722, 137972.	8.0	131
23	Quantifying the efficiency and selectivity of organohalide dechlorination by zerovalent iron. Environmental Sciences: Processes and Impacts, 2020, 22, 528-542.	3.5	51
24	Accelerated antimony and copper removal by manganese oxide embedded in biochar with enlarged pore structure. Chemical Engineering Journal, 2020, 402, 126021.	12.7	55
25	Sulfidation enhances stability and mobility of carboxymethyl cellulose stabilized nanoscale zero-valent iron in saturated porous media. Science of the Total Environment, 2020, 718, 137427.	8.0	30
26	Ultrafast sequestration of cadmium and lead from water by manganese oxide supported on a macro-mesoporous biochar. Chemical Engineering Journal, 2020, 387, 124095.	12.7	38
27	Effects of non-reducible dissolved solutes on reductive dechlorination of trichloroethylene by ball milled zero valent irons. Journal of Hazardous Materials, 2020, 396, 122620.	12.4	25
28	The Application of Alginate Coated Iron Hydroxide for the Removal of Cu(II) and Phosphate. Applied Sciences (Switzerland), 2019, 9, 3835.	2.5	4
29	Environmental occurrences, fate, and impacts of microplastics. Ecotoxicology and Environmental Safety, 2019, 184, 109612.	6.0	259
30	Enhanced Fluoride Removal from Water by Nanoporous Biochar-Supported Magnesium Oxide. Industrial & Engineering Chemistry Research, 2019, 58, 9988-9996.	3.7	46
31	Insight into the fenton-induced degradation process of extracellular polymeric substances (EPS) extracted from activated sludge. Chemosphere, 2019, 234, 318-327.	8.2	28
32	Highly active metallic nickel sites confined in N-doped carbon nanotubes toward significantly enhanced activity of CO2 electroreduction. Carbon, 2019, 150, 52-59.	10.3	84
33	Sulfidation mitigates the passivation of zero valent iron at alkaline pHs: Experimental evidences and mechanism. Water Research, 2019, 159, 233-241.	11.3	97
34	Nanocarbon-based catalysts for esterification: Effect of carbon dimensionality and synergistic effect of the surface functional groups. Carbon, 2019, 147, 134-145.	10.3	19
35	Ball-milled biochar for alternative carbon electrode. Environmental Science and Pollution Research, 2019, 26, 14693-14702.	5.3	30
36	Sorption of Non-ionic Aromatic Organics to Mineral Micropores: Interactive Effect of Cation Hydration and Mineral Charge Density. Environmental Science & Technology, 2019, 53, 3067-3077.	10.0	8

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37	Surface functional groups of carbon-based adsorbents and their roles in the removal of heavy metals from aqueous solutions: A critical review. Chemical Engineering Journal, 2019, 366, 608-621.	12.7	790
38	Impact of dissolved O₂ on phenol oxidation by Î´-MnO₂. Environmental Sciences: Processes and Impacts, 2019, 21, 2118-2127.	3.5	9
39	Chromium(VI) removal by mechanochemically sulfidated zero valent iron and its effect on dechlorination of trichloroethene as a co-contaminant. Science of the Total Environment, 2019, 650, 419-426.	8.0	108
40	Reclaiming phosphorus from secondary treated municipal wastewater with engineered biochar. Chemical Engineering Journal, 2019, 362, 460-468.	12.7	136
41	Stability of hydrous ferric oxide nanoparticles encapsulated inside porous matrices: Effect of solution and matrix phase. Chemical Engineering Journal, 2018, 347, 870-876.	12.7	18
42	Experimental and modeling investigations of ball-milled biochar for the removal of aqueous methylene blue. Chemical Engineering Journal, 2018, 335, 110-119.	12.7	262
43	Effects of ball milling on the physicochemical and sorptive properties of biochar: Experimental observations and governing mechanisms. Environmental Pollution, 2018, 233, 54-63.	7.5	314
44	Composition and functional group characterization of extracellular polymeric substances (EPS) in activated sludge: the impacts of polymerization degree of proteinaceous substrates. Water Research, 2018, 129, 133-142.	11.3	232
45	Enhanced lead and cadmium removal using biochar-supported hydrated manganese oxide (HMO) nanoparticles: Behavior and mechanism. Science of the Total Environment, 2018, 616-617, 1298-1306.	8.0	163
46	Insight into the kinetics and mechanism of removal of aqueous chlorinated nitroaromatic antibiotic chloramphenicol by nanoscale zero-valent iron. Chemical Engineering Journal, 2018, 334, 508-518.	12.7	123
47	Dechlorination of Excess Trichloroethene by Bimetallic and Sulfidated Nanoscale Zero-Valent Iron. Environmental Science & Technology, 2018, 52, 8627-8637.	10.0	240
48	Manganese oxide nanoparticles impregnated graphene oxide aggregates for cadmium and copper remediation. Chemical Engineering Journal, 2018, 350, 1135-1143.	12.7	77
49	Transport of stabilized iron nanoparticles in porous media: Effects of surface and solution chemistry and role of adsorption. Journal of Hazardous Materials, 2017, 322, 284-291.	12.4	63
50	Adsorptive removal of arsenate from aqueous solutions by biochar supported zero-valent iron nanocomposite: Batch and continuous flow tests. Journal of Hazardous Materials, 2017, 322, 172-181.	12.4	263
51	Role of dissolved Mn(III) in transformation of organic contaminants: Non-oxidative versus oxidative mechanisms. Water Research, 2017, 111, 234-243.	11.3	115
52	Is polymeric substrate in influent an indirect impetus for the nitrification process in an activated sludge system?. Chemosphere, 2017, 177, 128-134.	8.2	4
53	Mechanochemically Sulfidated Microscale Zero Valent Iron: Pathways, Kinetics, Mechanism, and Efficiency of Trichloroethylene Dechlorination. Environmental Science & Technology, 2017, 51, 12653-12662.	10.0	262
54	Metal Foam-Based Fenton-Like Process by Aeration. ACS Omega, 2017, 2, 6104-6111.	3.5	26

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55	Ball-Milled Carbon Nanomaterials for Energy and Environmental Applications. ACS Sustainable Chemistry and Engineering, 2017, 5, 9568-9585.	6.7	187
56	Highly Efficient Sulfonic/Carboxylic Dualâ€Acid Synergistic Catalysis for Esterification Enabled by Sulfurâ€Rich Graphene Oxide. ChemSusChem, 2017, 10, 3352-3357.	6.8	21
57	Phosphate removal by lead-exhausted bioadsorbents simultaneously achieving lead stabilization. Chemosphere, 2017, 168, 748-755.	8.2	20
58	Mechanochemically Sulfidated Zero Valent Iron as an Efficient Fenton-like Catalyst for Degradation of Organic Contaminants. Acta Chimica Sinica, 2017, 75, 866.	1.4	13
59	Esterification of fatty acids from waste cooking oil to biodiesel over a sulfonated resin/PVA composite. Catalysis Science and Technology, 2016, 6, 5590-5598.	4.1	15
60	Rapid and highly selective removal of lead from water using graphene oxide-hydrated manganese oxide nanocomposites. Journal of Hazardous Materials, 2016, 314, 32-40.	12.4	155
61	Oxygen-Content-Controllable Graphene Oxide from Electron-Beam-Irradiated Graphite: Synthesis, Characterization, and Removal of Aqueous Lead [Pb(II)]. ACS Applied Materials & Interfaces, 2016, 8, 25289-25296.	8.0	44
62	Synergetic degradation of benzotriazole by ultraviolet and ultrasound irradiation. Desalination and Water Treatment, 2016, 57, 17955-17962.	1.0	3
63	Catalytic activity of noble metal nanoparticles toward hydrodechlorination: influence of catalyst electronic structure and nature of adsorption. Frontiers of Environmental Science and Engineering, 2015, 9, 888-896.	6.0	6
64	Degradation of Trichloroethene with a Novel Ball Milled Feâ€“C Nanocomposite. Journal of Hazardous Materials, 2015, 300, 443-450.	12.4	87
65	In situ remediation technologies for mercury-contaminated soil. Environmental Science and Pollution Research, 2015, 22, 8124-8147.	5.3	102
66	Formation of Soluble Mercury Oxide Coatings: Transformation of Elemental Mercury in Soils. Environmental Science & Technology, 2015, 49, 12105-12111.	10.0	17
67	Tea waste-supported hydrated manganese dioxide (HMO) for enhanced removal of typical toxic metal ions from water. RSC Advances, 2015, 5, 88900-88907.	3.6	25
68	Stabilization of Zero-Valent Iron Nanoparticles for Enhanced In Situ Destruction of Chlorinated Solvents in Soils and Groundwater. , 2014, , 491-501.		3
69	Preparation and characterization of activated aluminum powder by magnetic grinding method for hydrogen generation. International Journal of Energy Research, 2014, 38, 1016-1023.	4.5	10
70	Photochemical Oxidation of Dissolved Elemental Mercury by Carbonate Radicals in Water. Environmental Science and Technology Letters, 2014, 1, 499-503.	8.7	48
71	The degradation pathway of aminosilicone polymer in aqueous microemulsion by Fenton process. Polymer Degradation and Stability, 2013, 98, 464-470.	5.8	2
72	Rapid Removal of Hg(II) from Aqueous Solutions Using Thiol-Functionalized Zn-Doped Biomagnetite Particles. ACS Applied Materials & Interfaces, 2012, 4, 4373-4379.	8.0	96

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73	Time-Dependent Density Functional Theory Assessment of UV Absorption of Benzoic Acid Derivatives. Journal of Physical Chemistry A, 2012, 116, 11870-11879.	2.5	55
74	Mercury photolytic transformation affected by low-molecular-weight natural organics in water. Science of the Total Environment, 2012, 416, 429-435.	8.0	30
75	Degradation of soil-sorbed trichloroethylene by stabilized zero valent iron nanoparticles: Effects of sorption, surfactants, and natural organic matter. Water Research, 2011, 45, 2401-2414.	11.3	180
76	In situ testing of metallic iron nanoparticle mobility and reactivity in a shallow granular aquifer. Journal of Contaminant Hydrology, 2010, 116, 35-46.	3.3	125
77	Field assessment of carboxymethyl cellulose stabilized iron nanoparticles for in situ destruction of chlorinated solvents in source zones. Water Research, 2010, 44, 2360-2370.	11.3	368
78	Stabilization of Zero-Valent Iron Nanoparticles for Enhanced In Situ Destruction of Chlorinated Solvents in Soils and Groundwater. , 2009, , 281-291.		1
79	Transport of carboxymethyl cellulose stabilized iron nanoparticles in porous media: Column experiments and modeling. Journal of Colloid and Interface Science, 2009, 334, 96-102.	9.4	245
80	Immobilization of mercury in sediment using stabilized iron sulfide nanoparticles. Water Research, 2009, 43, 5171-5179.	11.3	163
81	Precise Seed-Mediated Growth and Size-Controlled Synthesis of Palladium Nanoparticles Using a Green Chemistry Approach. Langmuir, 2009, 25, 7116-7128.	3.5	80
82	One-Step â€œGreenâ€•Synthesis of Pd Nanoparticles of Controlled Size and Their Catalytic Activity for Trichloroethene Hydrodechlorination. Industrial & Engineering Chemistry Research, 2009, 48, 6550-6557.	3.7	64
83	Hydrodechlorination of trichloroethene using stabilized Fe-Pd nanoparticles: Reaction mechanism and effects of stabilizers, catalysts and reaction conditions. Applied Catalysis B: Environmental, 2008, 84, 533-540.	20.2	215
84	Polysugar-Stabilized Pd Nanoparticles Exhibiting High Catalytic Activities for Hydrodechlorination of Environmentally Deleterious Trichloroethylene. Langmuir, 2008, 24, 328-336.	3.5	85
85	Response to Comment on â€œManipulating the Size and Dispersibility of Zerovalent Iron Nanoparticles by Use of Carboxymethyl Cellulose Stabilizersâ€• Environmental Science & Technology, 2008, 42, 3480-3480.	10.0	6
86	Stabilization of Feâˆ’Pd Nanoparticles with Sodium Carboxymethyl Cellulose for Enhanced Transport and Dechlorination of Trichloroethylene in Soil and Groundwater. Industrial & Engineering Chemistry Research, 2007, 46, 29-34.	3.7	586
87	Manipulating the Size and Dispersibility of Zerovalent Iron Nanoparticles by Use of Carboxymethyl Cellulose Stabilizers. Environmental Science & Technology, 2007, 41, 6216-6221.	10.0	510
88	Preparation and Characterization of a New Class of Starch-Stabilized Bimetallic Nanoparticles for Degradation of Chlorinated Hydrocarbons in Water. Environmental Science & Technology, 2005, 39, 3314-3320.	10.0	736
89	Degradation kinetics and mechanisms of phenol in photo-Fenton process. Journal of Zhejiang University Science B, 2004, 5, 198-205.	0.4	51