

Jiang Xu

List of Publications by Year in descending order

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66
papers

6,891
citations

53660

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102304

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docs citations

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times ranked

6744
citing authors

#	ARTICLE	IF	CITATIONS
1	Even Incorporation of Nitrogen into Fe ⁰ Nanoparticles as Crystalline Fe ₄ N for Efficient and Selective Trichloroethylene Degradation. <i>Environmental Science & Technology</i> , 2022, 56, 4489-4497.	4.6	26
2	Synergistic Effect of Soil Organic Matter and Nanoscale Zero-Valent Iron on Biodechlorination. <i>Environmental Science & Technology</i> , 2022, 56, 4915-4925.	4.6	16
3	Mesoporous silica size, charge, and hydrophobicity affect the loading and releasing performance of lambda-cyhalothrin. <i>Science of the Total Environment</i> , 2022, 831, 154914.	3.9	11
4	Molecular Structure and Sulfur Content Affect Reductive Dechlorination of Chlorinated Ethenes by Sulfidized Nanoscale Zerovalent Iron. <i>Environmental Science & Technology</i> , 2022, 56, 5808-5819.	4.6	28
5	Application of $\hat{\pm}$ -Fe ₂ O ₃ nanoparticles in controlling antibiotic resistance gene transport and interception in porous media. <i>Science of the Total Environment</i> , 2022, 834, 155271.	3.9	4
6	Modification of Pd Nanoparticles with Lower Work Function Elements for Enhanced Formic Acid Dehydrogenation and Trichloroethylene Dechlorination. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30735-30745.	4.0	5
7	Origin of the hydrophobicity of sulfur-containing iron surfaces. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 13971-13976.	1.3	38
8	Properties and reactivity of sulfidized nanoscale zero-valent iron prepared with different borohydride amounts. <i>Environmental Science: Nano</i> , 2021, 8, 2607-2617.	2.2	24
9	Amphiphilic Thiol Polymer Nanogel Removes Environmentally Relevant Mercury Species from Both Produced Water and Hydrocarbons. <i>Environmental Science & Technology</i> , 2021, 55, 1231-1241.	4.6	16
10	Unveiling the Role of Sulfur in Rapid Defluorination of Florfenicol by Sulfidized Nanoscale Zero-Valent Iron in Water under Ambient Conditions. <i>Environmental Science & Technology</i> , 2021, 55, 2628-2638.	4.6	98
11	Sulfidized Nanoscale Zero-Valent Iron: Tuning the Properties of This Complex Material for Efficient Groundwater Remediation. <i>Accounts of Materials Research</i> , 2021, 2, 420-431.	5.9	96
12	Separation and Analysis of Nanoscale Zero-Valent Iron from Soil. <i>Analytical Chemistry</i> , 2021, 93, 10187-10195.	3.2	14
13	Triton X-100 improves the reactivity and selectivity of sulfidized nanoscale zerovalent iron toward tetrabromobisphenol A: Implications for groundwater and soil remediation. <i>Journal of Hazardous Materials</i> , 2021, 416, 126119.	6.5	21
14	Effects of biochar aging in the soil on its mechanical property and performance for soil CO ₂ and N ₂ O emissions. <i>Science of the Total Environment</i> , 2021, 782, 146824.	3.9	69
15	Phosphate Polymer Nanogel for Selective and Efficient Rare Earth Element Recovery. <i>Environmental Science & Technology</i> , 2021, 55, 12549-12560.	4.6	22
16	Impacts of Sediment Particle Grain Size and Mercury Speciation on Mercury Bioavailability Potential. <i>Environmental Science & Technology</i> , 2021, 55, 12393-12402.	4.6	27
17	Time-dependent effects of ZnO nanoparticles on bacteria in an estuarine aquatic environment. <i>Science of the Total Environment</i> , 2020, 698, 134298.	3.9	16
18	Adsorption behavior and mechanism of Pb(II) and complex Cu(II) species by biowaste-derived char with amino functionalization. <i>Journal of Colloid and Interface Science</i> , 2020, 559, 215-225.	5.0	54

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19	Fast degradation, large capacity, and high electron efficiency of chloramphenicol removal by different carbon-supported nanoscale zerovalent iron. <i>Journal of Hazardous Materials</i> , 2020, 384, 121253.	6.5	52
20	Dechlorination and defluorination capability of sulfidized nanoscale zerovalent iron with suppressed water reactivity. <i>Chemical Engineering Journal</i> , 2020, 400, 125900.	6.6	61
21	Iron and Sulfur Precursors Affect Crystalline Structure, Speciation, and Reactivity of Sulfidized Nanoscale Zerovalent Iron. <i>Environmental Science & Technology</i> , 2020, 54, 13294-13303.	4.6	128
22	Engineering lithium-ion battery cathodes for high-voltage applications using electromagnetic excitation. <i>Journal of Materials Science</i> , 2020, 55, 12177-12190.	1.7	10
23	Sulfur Loading and Speciation Control the Hydrophobicity, Electron Transfer, Reactivity, and Selectivity of Sulfidized Nanoscale Zerovalent Iron. <i>Advanced Materials</i> , 2020, 32, e1906910.	11.1	204
24	CuO Nanoparticles Alter the Rhizospheric Bacterial Community and Local Nitrogen Cycling for Wheat Grown in a Calcareous Soil. <i>Environmental Science & Technology</i> , 2020, 54, 8699-8709.	4.6	65
25	Correlating surface chemistry and hydrophobicity of sulfidized nanoscale zerovalent iron with its reactivity and selectivity for denitration and dechlorination. <i>Chemical Engineering Journal</i> , 2020, 394, 124876.	6.6	79
26	Pd/TiC/Ti electrode with enhanced atomic H* generation, atomic H* adsorption and 2,4-DCBA adsorption for facilitating electrocatalytic hydrodechlorination. <i>Environmental Science: Nano</i> , 2020, 7, 1566-1581.	2.2	23
27	Sulfur Dose and Sulfidation Time Affect Reactivity and Selectivity of Post-Sulfidized Nanoscale Zerovalent Iron. <i>Environmental Science & Technology</i> , 2019, 53, 13344-13352.	4.6	120
28	Insight into atomic H* generation, H ₂ evolution, and cathode potential of MnO ₂ induced Pd/Ni foam cathode for electrocatalytic hydrodechlorination. <i>Chemical Engineering Journal</i> , 2019, 374, 211-220.	6.6	53
29	Reactivity, Selectivity, and Long-Term Performance of Sulfidized Nanoscale Zerovalent Iron with Different Properties. <i>Environmental Science & Technology</i> , 2019, 53, 5936-5945.	4.6	194
30	AgI loading BiOI composites with enhanced photodegradation efficiency for bisphenol A under simulated solar light. <i>Science of the Total Environment</i> , 2019, 669, 194-204.	3.9	33
31	Hydrophobic sorption behaviors of 17 β -Estradiol on environmental microplastics. <i>Chemosphere</i> , 2019, 226, 726-735.	4.2	148
32	Mechanism and influence factors of chromium(VI) removal by sulfide-modified nanoscale zerovalent iron. <i>Chemosphere</i> , 2019, 224, 306-315.	4.2	174
33	Distributing sulfidized nanoscale zerovalent iron onto phosphorus-functionalized biochar for enhanced removal of antibiotic florfenicol. <i>Chemical Engineering Journal</i> , 2019, 359, 713-722.	6.6	120
34	Electrocatalytic dechlorination of 2,4-dichlorobenzoic acid using different carbon-supported palladium moveable catalysts: Adsorption and dechlorination activity. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 215-224.	10.8	57
35	Enhanced electrocatalytic dechlorination by dispersed and moveable activated carbon supported palladium catalyst. <i>Chemical Engineering Journal</i> , 2019, 358, 1176-1185.	6.6	50
36	Multiwalled carbon nanotubes incorporated with or without amino groups for aqueous Pb(II) removal: Comparison and mechanism study. <i>Journal of Molecular Liquids</i> , 2018, 260, 149-158.	2.3	57

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37	A review of functionalized carbon nanotubes and graphene for heavy metal adsorption from water: Preparation, application, and mechanism. <i>Chemosphere</i> , 2018, 195, 351-364.	4.2	612
38	Screening of seaweeds in the East China Sea as potential bio-monitors of heavy metals. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16640-16651.	2.7	27
39	Biofilms as a sink for antibiotic resistance genes (ARGs) in the Yangtze Estuary. <i>Water Research</i> , 2018, 129, 277-286.	5.3	193
40	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.	6.6	123
41	MnO ₂ enhances electrocatalytic hydrodechlorination by Pd/Ni foam electrodes and reduces Pd needs. <i>Chemical Engineering Journal</i> , 2018, 352, 549-557.	6.6	81
42	Progress in the biological and chemical treatment technologies for emerging contaminant removal from wastewater: A critical review. <i>Journal of Hazardous Materials</i> , 2017, 323, 274-298.	6.5	886
43	Enhanced removal of As(III)/(V) from water by simultaneously supported and stabilized Fe-Mn binary oxide nanohybrids. <i>Chemical Engineering Journal</i> , 2017, 322, 710-721.	6.6	108
44	Removal of Antibiotic Florfenicol by Sulfide-Modified Nanoscale Zero-Valent Iron. <i>Environmental Science & Technology</i> , 2017, 51, 11269-11277.	4.6	251
45	Seasonal variation, flux estimation, and source analysis of dissolved emerging organic contaminants in the Yangtze Estuary, China. <i>Marine Pollution Bulletin</i> , 2017, 125, 208-215.	2.3	69
46	Preparation of functionalized Pd/Fe-Fe ₃ O ₄ @MWCNTs nanomaterials for aqueous 2,4-dichlorophenol removal: Interactions, influence factors, and kinetics. <i>Journal of Hazardous Materials</i> , 2016, 317, 656-666.	6.5	67
47	Uptake, accumulation and elimination of polystyrene microspheres in tadpoles of <i>Xenopus tropicalis</i> . <i>Chemosphere</i> , 2016, 164, 611-617.	4.2	112
48	Adsorption behavior and mechanism of chloramphenicols, sulfonamides, and non-antibiotic pharmaceuticals on multi-walled carbon nanotubes. <i>Journal of Hazardous Materials</i> , 2016, 310, 235-245.	6.5	338
49	Dechlorination Mechanism of 2,4-Dichlorophenol by Magnetic MWCNTs Supported Pd/Fe Nanohybrids: Rapid Adsorption, Gradual Dechlorination, and Desorption of Phenol. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 7333-7342.	4.0	126
50	Functional nanomaterials: Study on aqueous Hg(II) adsorption by magnetic Fe ₃ O ₄ @SiO ₂ -SH nanoparticles. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 60, 394-402.	2.7	103
51	Synthesis of graphene oxide nanosheets for the removal of Cd(II) ions from acidic aqueous solutions. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2016, 59, 365-372.	2.7	44
52	Arsenic Removal from Natural Water Using Low Cost Granulated Adsorbents: A Review. <i>Clean - Soil, Air, Water</i> , 2015, 43, 13-26.	0.7	81
53	Multifunctional nanocomposite Fe ₃ O ₄ @SiO ₂ -mPD/SP for selective removal of Pb(II) and Cr(VI) from aqueous solutions. <i>RSC Advances</i> , 2014, 4, 45920-45929.	1.7	74
54	Dechlorination of 2,4-dichlorophenol by nanoscale magnetic Pd/Fe particles: Effects of pH, temperature, common dissolved ions and humic acid. <i>Chemical Engineering Journal</i> , 2013, 231, 26-35.	6.6	98

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55	Adsorption and dechlorination of 2,4-dichlorophenol using two specified MWCNTs-stabilized Pd/Fe nanocomposites. <i>Chemical Engineering Journal</i> , 2013, 219, 162-173.	6.6	96
56	Enhanced dechlorination of 2,4-dichlorophenol by Pd/FeFe ₃ O ₄ nanocomposites. <i>Journal of Hazardous Materials</i> , 2013, 244-245, 628-636.	6.5	74
57	Comparison of Phosphorus Determination Methods by Ion Chromatography and Molybdenum Blue Methods. <i>Communications in Soil Science and Plant Analysis</i> , 2013, 44, 2535-2545.	0.6	27
58	Simultaneous adsorption and dechlorination of 2,4-dichlorophenol by Pd/Fe nanoparticles with multi-walled carbon nanotube support. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 36-45.	6.5	109
59	Promotion effect of Fe ²⁺ and Fe ₃ O ₄ on nitrate reduction using zero-valent iron. <i>Desalination</i> , 2012, 284, 9-13.	4.0	120
60	Highly active nanoscale zero-valent iron (nZVI) and Fe ₃ O ₄ nanocomposites for the removal of chromium(VI) from aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2012, 369, 460-469.	5.0	237
61	Electrochemical reductive dechlorination of 2,4-dichlorophenoxyacetic acid using a palladium/nickel foam electrode. <i>Electrochimica Acta</i> , 2012, 69, 389-396.	2.6	68
62	Effect of additives on Hg ²⁺ reduction and precipitation inhibited by sodium dithiocarbamate in simulated flue gas desulfurization solutions. <i>Journal of Hazardous Materials</i> , 2011, 196, 160-165.	6.5	24
63	Removal of chromium(VI) from wastewater by nanoscale zero-valent iron particles supported on multiwalled carbon nanotubes. <i>Chemosphere</i> , 2011, 85, 1204-1209.	4.2	272
64	The phosphorus fractions and alkaline phosphatase activities in sludge. <i>Bioresource Technology</i> , 2011, 102, 2455-2461.	4.8	93
65	Enhanced Hg ²⁺ removal and Hg ⁰ re-emission control from wet fuel gas desulfurization liquors with additives. <i>Fuel</i> , 2010, 89, 3613-3617.	3.4	65
66	Hg ²⁺ reduction and re-emission from simulated wet flue gas desulfurization liquors. <i>Journal of Hazardous Materials</i> , 2009, 172, 1106-1110.	6.5	100