

# Jiawei Chen

## List of Publications by Year in descending order

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45  
papers

2,418  
citations

185998

28  
h-index

243296

44  
g-index

45  
all docs

45  
docs citations

45  
times ranked

2689  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption kinetics of magnetic biochar derived from peanut hull on removal of Cr (VI) from aqueous solution: Effects of production conditions and particle size. <i>Chemosphere</i> , 2016, 145, 336-341.	4.2	354
2	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. <i>Journal of Hazardous Materials</i> , 2020, 383, 121240.	6.5	266
3	Effect of natural organic matter on toxicity and reactivity of nano-scale zero-valent iron. <i>Water Research</i> , 2011, 45, 1995-2001.	5.3	245
4	Adsorption and reductive degradation of Cr(VI) and TCE by a simply synthesized zero valent iron magnetic biochar. <i>Journal of Environmental Management</i> , 2019, 235, 276-281.	3.8	108
5	A comparative study on biochar properties and Cd adsorption behavior under effects of ageing processes of leaching, acidification and oxidation. <i>Environmental Pollution</i> , 2019, 254, 113123.	3.7	94
6	A novel pyro-hydrochar via sequential carbonization of biomass waste: Preparation, characterization and adsorption capacity. <i>Journal of Cleaner Production</i> , 2018, 176, 187-195.	4.6	73
7	Oxidative ageing of biochar and hydrochar alleviating competitive sorption of Cd(II) and Cu(II). <i>Science of the Total Environment</i> , 2020, 725, 138419.	3.9	73
8	Insight into mechanism of aged biochar for adsorption of PAEs: Reciprocal effects of ageing and coexisting Cd <sup>2+</sup> . <i>Environmental Pollution</i> , 2018, 242, 1098-1107.	3.7	63
9	Comparing biochar- and bentonite-supported Fe-based catalysts for selective degradation of antibiotics: Mechanisms and pathway. <i>Environmental Research</i> , 2020, 183, 109156.	3.7	61
10	Natural Organic Matter (NOM) Imparts Molecular-Weight-Dependent Steric Stabilization or Electrostatic Destabilization to Ferrihydrite Nanoparticles. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6761-6770.	4.6	61
11	A comparison of the effects of natural organic matter on sulfidated and nonsulfidated nanoscale zerovalent iron colloidal stability, toxicity, and reactivity to trichloroethylene. <i>Science of the Total Environment</i> , 2019, 671, 254-261.	3.9	60
12	Highly efficient degradation of trichloroethylene in groundwater based on peroxymonosulfate activation by bentonite supported Fe/Ni bimetallic nanoparticle. <i>Chemosphere</i> , 2019, 216, 499-506.	4.2	57
13	Residues and Characteristics of Organochlorine Pesticides in the Surface Water in the Suburb of Beijing. <i>Earth Science Frontiers</i> , 2008, 15, 242-247.	0.5	54
14	New insights into contrasting mechanisms for PAE adsorption on millimeter, micron- and nano-scale biochar. <i>Environmental Science and Pollution Research</i> , 2019, 26, 18636-18650.	2.7	52
15	Tailored design of food waste hydrochar for efficient adsorption and catalytic degradation of refractory organic contaminant. <i>Journal of Cleaner Production</i> , 2021, 310, 127482.	4.6	52
16	Phase Behavior, Densities, and Isothermal Compressibility of CO <sub>2</sub> + Pentane and CO <sub>2</sub> + Acetone Systems in Various Phase Regions. <i>Journal of Chemical &amp; Engineering Data</i> , 2003, 48, 1544-1548.	1.0	51
17	Oxidative ageing induces change in the functionality of biochar and hydrochar: Mechanistic insights from sorption of atrazine. <i>Environmental Pollution</i> , 2019, 249, 1002-1010.	3.7	48
18	Bismuth oxyiodide coupled with bismuth nanodots for enhanced photocatalytic bisphenol A degradation: synergistic effects and mechanistic insight. <i>Nanoscale</i> , 2017, 9, 15484-15493.	2.8	47

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19	Coprecipitation of Fe/Cr Hydroxides with Organics: Roles of Organic Properties in Composition and Stability of the Coprecipitates. <i>Environmental Science &amp; Technology</i> , 2021, 55, 4638-4647.	4.6	46
20	Kinetic and isothermal adsorption-desorption of PAEs on biochars: effect of biomass feedstock, pyrolysis temperature, and mechanism implication of desorption hysteresis. <i>Environmental Science and Pollution Research</i> , 2018, 25, 11493-11504.	2.7	41
21	Sorption and transport of sulfonamides in soils amended with wheat straw-derived biochar: effects of water pH, coexistence copper ion, and dissolved organic matter. <i>Journal of Soils and Sediments</i> , 2017, 17, 771-779.	1.5	40
22	High-temperature and freeze-thaw aged biochar impacts on sulfonamide sorption and mobility in soil. <i>Chemosphere</i> , 2021, 276, 130106.	4.2	40
23	Bone-derived biochar and magnetic biochar for effective removal of fluoride in groundwater: Effects of synthesis method and coexisting chromium. <i>Water Environment Research</i> , 2019, 91, 588-597.	1.3	36
24	A Field Experiment on Enhancement of Crop Yield by Rice Straw and Corn Stalk-Derived Biochar in Northern China. <i>Sustainability</i> , 2015, 7, 13713-13725.	1.6	34
25	Effect of ageing on biochar properties and pollutant management. <i>Chemosphere</i> , 2022, 292, 133427.	4.2	34
26	Interactions between biochar and clay minerals in changing biochar carbon stability. <i>Science of the Total Environment</i> , 2022, 809, 151124.	3.9	33
27	Norfloxacin adsorption and subsequent degradation on ball-milling tailored N-doped biochar. <i>Chemosphere</i> , 2022, 303, 135264.	4.2	33
28	FeCu-biochar enhances the removal of antibacterial sulfapyridine from groundwater by activation of persulfate. <i>Environmental Chemistry Letters</i> , 2020, 18, 1693-1700.	8.3	31
29	O/N/P-doped biochar induced to enhance adsorption of sulfonamide with coexisting Cu <sup>2+</sup> /Cr (VI) by air pre-oxidation. <i>Bioresource Technology</i> , 2021, 341, 125794.	4.8	30
30	Reduction of nitrate by bimetallic Fe/Ni nanoparticles. <i>Environmental Technology (United Kingdom)</i> , 2012, 33, 2185-2192.	1.2	28
31	Controllable synthesis of Titania-supported Bismuth Oxyiodide Heterostructured Nanofibers with Highly Exposed (100) Bismuth Oxyiodide Facets for Enhanced Photocatalytic Activity. <i>ChemCatChem</i> , 2016, 8, 3780-3789.	1.8	25
32	High molecular weight components of natural organic matter preferentially adsorb onto nanoscale zero valent iron and magnetite. <i>Science of the Total Environment</i> , 2018, 628-629, 177-185.	3.9	23
33	Contrasting impacts of chemical and physical ageing on hydrochar properties and sorption of norfloxacin with coexisting Cu <sup>2+</sup> . <i>Science of the Total Environment</i> , 2021, 772, 145502.	3.9	20
34	One-step synthesis of bentonite-supported nanoscale Fe/Ni bimetal for rapid degradation of methyl orange in water. <i>Environmental Chemistry Letters</i> , 2014, 12, 461-466.	8.3	18
35	Enhanced Stabilization of Reverse Micelles by Compressed CO <sub>2</sub> . <i>Chemistry - A European Journal</i> , 2005, 11, 1228-1234.	1.7	16
36	Solvatochromic behavior of phenol blue in CO <sub>2</sub> +ethanol and CO <sub>2</sub> +n-pentane mixtures in the critical region and local composition enhancement. <i>Journal of Chemical Physics</i> , 2005, 122, 204508.	1.2	13

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37	Enhanced degradation of trichloroethylene using bentonite-supported nanoscale Fe/Ni and humic acids. <i>Environmental Chemistry Letters</i> , 2016, 14, 237-242.	8.3	13
38	Insights into effects of ageing processes on Cd-adsorbed biochar stability and subsequent sorption performance. <i>Environmental Pollution</i> , 2021, 291, 118243.	3.7	11
39	Effects of pH and ionic composition on sorption/desorption of natural organic matter on zero-valent iron and magnetite nanoparticles. <i>Water Science and Technology</i> , 2015, 72, 303-310.	1.2	10
40	Phase Behavior, Densities, and Isothermal Compressibility of the CO <sub>2</sub> + Ethanol + Dichloromethane Ternary System in Different Phase Regions. <i>Journal of Chemical &amp; Engineering Data</i> , 2005, 50, 1153-1156.	1.0	7
41	Phase Behavior, Densities, and Isothermal Compressibility of the CO <sub>2</sub> + Pentane + Acetone Ternary System in Various Phase Regions. <i>Journal of Chemical &amp; Engineering Data</i> , 2004, 49, 537-543.	1.0	5
42	Solvent Density Inhomogeneities in Supercritical CO <sub>2</sub> by Pyrene Probe. <i>Earth Science Frontiers</i> , 2008, 15, 125-131.	0.5	5
43	Effect of phase behavior on the constant volume heat capacity of ethane + ethanol and ethane + acetone mixed fluids near the critical region and the intermolecular interaction. <i>Fluid Phase Equilibria</i> , 2003, 214, 53-65.	1.4	4
44	Fluorescence studies on local density change in supercritical CO <sub>2</sub> mixtures using the order parameter model. <i>Journal of Supercritical Fluids</i> , 2011, 56, 1-5.	1.6	3
45	Linear correlation of isothermal densities of fluid mixtures in near-critical region. <i>High Temperature</i> , 2010, 48, 295-298.	0.1	0