

Shengsen Wang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,007
citations

147566

31
h-index

197535

49
g-index

50
all docs

50
docs citations

50
times ranked

3389
citing authors

#	ARTICLE	IF	CITATIONS
1	Removal of arsenic by magnetic biochar prepared from pinewood and natural hematite. <i>Bioresource Technology</i> , 2015, 175, 391-395.	4.8	535
2	Batch and column sorption of arsenic onto iron-impregnated biochar synthesized through hydrolysis. <i>Water Research</i> , 2015, 68, 206-216.	5.3	448
3	Manganese oxide-modified biochars: Preparation, characterization, and sorption of arsenate and lead. <i>Bioresource Technology</i> , 2015, 181, 13-17.	4.8	325
4	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. <i>Journal of Hazardous Materials</i> , 2019, 373, 820-834.	6.5	307
5	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.	6.5	263
6	Physicochemical and sorptive properties of biochars derived from woody and herbaceous biomass. <i>Chemosphere</i> , 2015, 134, 257-262.	4.2	198
7	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. <i>Science of the Total Environment</i> , 2022, 822, 153555.	3.9	174
8	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
9	Formation and mechanisms of nano-metal oxide-biochar composites for pollutants removal: A review. <i>Science of the Total Environment</i> , 2021, 767, 145305.	3.9	89
10	Carbon defects in biochar facilitated nitrogen doping: The significant role of pyridinic nitrogen in peroxydisulfate activation and ciprofloxacin degradation. <i>Chemical Engineering Journal</i> , 2022, 441, 135864.	6.6	86
11	Sorption of arsenic onto Ni/Fe layered double hydroxide (LDH)-biochar composites. <i>RSC Advances</i> , 2016, 6, 17792-17799.	1.7	85
12	Preparation of highly-conductive pyrogenic carbon-supported zero-valent iron for enhanced Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2020, 396, 122712.	6.5	81
13	Sorption of arsenate onto magnetic iron-manganese (Fe-Mn) biochar composites. <i>RSC Advances</i> , 2015, 5, 67971-67978.	1.7	78
14	Removal of perfluorooctanoic acid (PFOA) and perfluorooctane sulfonate (PFOS) from water by carbonaceous nanomaterials: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2379-2414.	6.6	71
15	Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review. <i>Science of the Total Environment</i> , 2022, 837, 155563.	3.9	67
16	Simultaneous reductive and sorptive removal of Cr(VI) by activated carbon supported γ -FeOOH. <i>RSC Advances</i> , 2017, 7, 34687-34693.	1.7	64
17	Photocatalytic behavior of biochar-modified carbon nitride with enriched visible-light reactivity. <i>Chemosphere</i> , 2020, 239, 124713.	4.2	63
18	Biochar provides a safe and value-added solution for hyperaccumulating plant disposal: A case study of <i>Phytolacca acinosa</i> Roxb. (Phytolaccaceae). <i>Chemosphere</i> , 2017, 178, 59-64.	4.2	60

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19	Manganese oxide-modified biochar: production, characterization and applications for the removal of pollutants from aqueous environments - a review. <i>Bioresource Technology</i> , 2022, 346, 126581.	4.8	60
20	Carboxymethyl cellulose stabilized ZnO/biochar nanocomposites: Enhanced adsorption and inhibited photocatalytic degradation of methylene blue. <i>Chemosphere</i> , 2018, 197, 20-25.	4.2	58
21	Enhance in mobility of oxytetracycline in a sandy loamy soil caused by the presence of microplastics. <i>Environmental Pollution</i> , 2021, 269, 116151.	3.7	53
22	Biochar as a potential strategy for remediation of contaminated mining soils: Mechanisms, applications, and future perspectives. <i>Journal of Environmental Management</i> , 2022, 313, 114973.	3.8	53
23	Environmental behaviors and degradation methods of microplastics in different environmental media. <i>Chemosphere</i> , 2022, 299, 134354.	4.2	51
24	The sorptive and reductive capacities of biochar supported nanoscaled zero-valent iron (nZVI) in relation to its crystallite size. <i>Chemosphere</i> , 2017, 186, 495-500.	4.2	50
25	Preparation of biochar-interpenetrated iron-alginate hydrogel as a pH-independent sorbent for removal of Cr(VI) and Pb(II). <i>Environmental Pollution</i> , 2021, 287, 117303.	3.7	49
26	Modification of ordered mesoporous carbon for removal of environmental contaminants from aqueous phase: A review. <i>Journal of Hazardous Materials</i> , 2021, 418, 126266.	6.5	48
27	Magnetic Activated-ATP@Fe ₃ O ₄ Nanocomposite as an Efficient Fenton-Like Heterogeneous Catalyst for Degradation of Ethidium Bromide. <i>Scientific Reports</i> , 2017, 7, 6070.	1.6	47
28	Formation of nitrogen functionalities in biochar materials and their role in the mitigation of hazardous emerging organic pollutants from wastewater. <i>Journal of Hazardous Materials</i> , 2021, 416, 126131.	6.5	47
29	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.	4.0	44
30	Biomass facilitated phase transformation of natural hematite at high temperatures and sorption of Cd ²⁺ and Cu ²⁺ . <i>Environment International</i> , 2019, 124, 473-481.	4.8	40
31	The contribution of lignocellulosic constituents to Cr(VI) reduction capacity of biochar-supported zerovalent iron. <i>Chemosphere</i> , 2021, 263, 127871.	4.2	34
32	Pinewood outperformed bamboo as feedstock to prepare biochar-supported zero-valent iron for Cr ⁶⁺ reduction. <i>Environmental Research</i> , 2020, 187, 109695.	3.7	32
33	Carbothermal synthesis of biochar-supported metallic silver for enhanced photocatalytic removal of methylene blue and antimicrobial efficacy. <i>Journal of Hazardous Materials</i> , 2021, 401, 123382.	6.5	28
34	ZVI impregnation altered arsenic sorption by ordered mesoporous carbon in presence of Cr(VI): A mechanistic investigation. <i>Journal of Hazardous Materials</i> , 2021, 414, 125507.	6.5	23
35	Co-transport of Pb (II) and Cd (II) in saturated porous media: effects of colloids, flow rate and grain size. <i>Chemical Speciation and Bioavailability</i> , 2018, 30, 135-143.	2.0	22
36	Removal of Pb (II) and V (V) from aqueous solution by glutaraldehyde crosslinked chitosan and nanocomposites. <i>Chemosphere</i> , 2022, 297, 134084.	4.2	20

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37	Does biochar application in heavy metal-contaminated soils affect soil micronutrient dynamics? <i>Chemosphere</i> , 2022, 290, 133349.	4.2	19
38	Preferential Nitrate Removal from Water Using a New Recyclable Polystyrene Adsorbent Functionalized with Triethylamine Groups. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5194-5201.	1.8	16
39	Carbon matrix of biochar from biomass modeling components facilitates electron transfer from zero-valent iron to Cr(VI). <i>Environmental Science and Pollution Research</i> , 2022, 29, 24309-24321.	2.7	16
40	Mechanism analysis of MnFe ₂ O ₄ /FeSx for removal of Cr(VI) from aqueous phase. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112209.	2.9	14
41	Increased structural defects of graphene oxide compromised reductive capacity of ZVI towards hexavalent chromium. <i>Chemosphere</i> , 2021, 277, 130308.	4.2	14
42	Pyrogenic temperature affects the particle size of biochar-supported nanoscaled zero valent iron (nZVI) and its silver removal capacity. <i>Chemical Speciation and Bioavailability</i> , 2017, 29, 179-185.	2.0	13
43	Effects of temperature on physicochemical properties of rice straw biochar and its passivation ability to Cu ²⁺ in soil. <i>Journal of Soils and Sediments</i> , 2022, 22, 1418-1430.	1.5	13
44	Pyrolysis temperature and feedstock affected Cr(VI) removal capacity of sulfidated zerovalent iron: Importance of surface area and electrical conductivity. <i>Chemosphere</i> , 2022, 296, 133927.	4.2	10
45	Integration of biochar into Ag ₃ PO ₄ /Fe ₂ O ₃ heterojunction for enhanced reactive oxygen species generation towards organic pollutants removal. <i>Environmental Pollution</i> , 2022, 303, 119131.	3.7	10
46	Copper Nanoparticle Loading and F Doping of Graphene Aerogel Enhance Its Adsorption of Aqueous Perfluorooctanoic Acid. <i>ACS Omega</i> , 2021, 6, 7073-7085.	1.6	9
47	Accelerating interlayer charge transport of alkali metal-intercalated carbon nitride for enhanced photocatalytic hydrogen evolution. <i>Research on Chemical Intermediates</i> , 2021, 47, 5189-5202.	1.3	9
48	The significant role of electron donating capacity and carbon structure of biochar to electron transfer of zerovalent iron. <i>Chemosphere</i> , 2022, 287, 132381.	4.2	8
49	High removal efficiency of tetracycline (TC) by biochar-supported zerovalent iron composite prepared by co-pyrolysis of hematite and pinewood. <i>Environmental Pollutants and Bioavailability</i> , 2021, 33, 247-254.	1.3	6
50	Cosorption of Zn(II) and chlortetracycline onto montmorillonite: pH effects and molecular investigations. <i>Journal of Hazardous Materials</i> , 2022, 424, 127368.	6.5	4