

Shengsen Wang

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

4,007
citations

147801

31
h-index

197818

49
g-index

50
all docs

50
docs citations

50
times ranked

3389
citing authors

#	ARTICLE	IF	CITATIONS
1	Cosorption of Zn(II) and chlortetracycline onto montmorillonite: pH effects and molecular investigations. <i>Journal of Hazardous Materials</i> , 2022, 424, 127368.	12.4	4
2	The significant role of electron donating capacity and carbon structure of biochar to electron transfer of zerovalent iron. <i>Chemosphere</i> , 2022, 287, 132381.	8.2	8
3	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.	5.3	16
4	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.	9.6	60
5	Does biochar application in heavy metal-contaminated soils affect soil micronutrient dynamics?. <i>Chemosphere</i> , 2022, 290, 133349.	8.2	19
6	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. <i>Science of the Total Environment</i> , 2022, 822, 153555.	8.0	174
7	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.	8.2	10
8	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.	3.0	13
9	Removal of Pb (II) and V (V) from aqueous solution by glutaraldehyde crosslinked chitosan and nanocomposites. <i>Chemosphere</i> , 2022, 297, 134084.	8.2	20
10	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.	7.5	10
11	Environmental behaviors and degradation methods of microplastics in different environmental media. <i>Chemosphere</i> , 2022, 299, 134354.	8.2	51
12	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.	7.8	53
13	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.	12.7	86
14	Application of biochar immobilized microorganisms for pollutants removal from wastewater: A review. <i>Science of the Total Environment</i> , 2022, 837, 155563.	8.0	67
15	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
16	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.	12.4	28
17	The contribution of lignocellulosic constituents to Cr(VI) reduction capacity of biochar-supported zerovalent iron. <i>Chemosphere</i> , 2021, 263, 127871.	8.2	34
18	Enhance in mobility of oxytetracycline in a sandy loamy soil caused by the presence of microplastics. <i>Environmental Pollution</i> , 2021, 269, 116151.	7.5	53

#	ARTICLE	IF	CITATIONS
19	Copper Nanoparticle Loading and F Doping of Graphene Aerogel Enhance Its Adsorption of Aqueous Perfluorooctanoic Acid. <i>ACS Omega</i> , 2021, 6, 7073-7085.	3.5	9
20	Formation and mechanisms of nano-metal oxide-biochar composites for pollutants removal: A review. <i>Science of the Total Environment</i> , 2021, 767, 145305.	8.0	89
21	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.	12.4	23
22	Mechanism analysis of MnFe ₂ O ₄ /FeS _x for removal of Cr(VI) from aqueous phase. <i>Ecotoxicology and Environmental Safety</i> , 2021, 217, 112209.	6.0	14
23	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.	12.4	47
24	Increased structural defects of graphene oxide compromised reductive capacity of ZVI towards hexavalent chromium. <i>Chemosphere</i> , 2021, 277, 130308.	8.2	14
25	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.	2.7	9
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.	12.4	48
27	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.	7.5	49
28	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.	3.0	6
29	Photocatalytic behavior of biochar-modified carbon nitride with enriched visible-light reactivity. <i>Chemosphere</i> , 2020, 239, 124713.	8.2	63
30	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.	12.8	71
31	Pinewood outperformed bamboo as feedstock to prepare biochar-supported zero-valent iron for Cr ⁶⁺ reduction. <i>Environmental Research</i> , 2020, 187, 109695.	7.5	32
32	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.	3.7	16
33	Preparation of highly-conductive pyrogenic carbon-supported zero-valent iron for enhanced Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2020, 396, 122712.	12.4	81
34	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.	10.0	40
35	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.	12.4	307
36	Carboxymethyl cellulose stabilized ZnO/biochar nanocomposites: Enhanced adsorption and inhibited photocatalytic degradation of methylene blue. <i>Chemosphere</i> , 2018, 197, 20-25.	8.2	58

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37	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
38	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
39	Biochar provides a safe and value-added solution for hyperaccumulating plant disposal: A case study of <i>Phytolacca acinosa</i> Roxb. (<i>Phytolaccaceae</i>). <i>Chemosphere</i> , 2017, 178, 59-64.	8.2	60
40	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.	3.3	47
41	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.	8.2	50
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	Simultaneous reductive and sorptive removal of Cr(VI) by activated carbon supported Fe ²⁺ -FeOOH. <i>RSC Advances</i> , 2017, 7, 34687-34693.	3.6	64
44	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
45	Sorption of arsenic onto Ni/Fe layered double hydroxide (LDH)-biochar composites. <i>RSC Advances</i> , 2016, 6, 17792-17799.	3.6	85
46	Physicochemical and sorptive properties of biochars derived from woody and herbaceous biomass. <i>Chemosphere</i> , 2015, 134, 257-262.	8.2	198
47	Manganese oxide-modified biochars: Preparation, characterization, and sorption of arsenate and lead. <i>Bioresource Technology</i> , 2015, 181, 13-17.	9.6	325
48	Sorption of arsenate onto magnetic iron-manganese (Fe-Mn) biochar composites. <i>RSC Advances</i> , 2015, 5, 67971-67978.	3.6	78
49	Removal of arsenic by magnetic biochar prepared from pinewood and natural hematite. <i>Bioresource Technology</i> , 2015, 175, 391-395.	9.6	535
50	Batch and column sorption of arsenic onto iron-impregnated biochar synthesized through hydrolysis. <i>Water Research</i> , 2015, 68, 206-216.	11.3	448