

Hailong Wang

List of Publications by Year in descending order

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349
papers

23,253
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8159

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all docs

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docs citations

354
times ranked

15085
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface functional groups of carbon-based adsorbents and their roles in the removal of heavy metals from aqueous solutions: A critical review. <i>Chemical Engineering Journal</i> , 2019, 366, 608-621.	6.6	790
2	Using biochar for remediation of soils contaminated with heavy metals and organic pollutants. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8472-8483.	2.7	663
3	Chemical characterization of rice straw-derived biochar for soil amendment. <i>Biomass and Bioenergy</i> , 2012, 47, 268-276.	2.9	517
4	Effect of bamboo and rice straw biochars on the mobility and redistribution of heavy metals (Cd, Cu, Zn) in soil. <i>Environmental Science and Pollution Research</i> , 2013, 20, 8472-8483.	3.8	471
5	Removal of Cu, Zn, and Cd from aqueous solutions by the dairy manure-derived biochar. <i>Environmental Science and Pollution Research</i> , 2013, 20, 358-368.	2.7	460
6	Response of microbial communities to biochar-amended soils: a critical review. <i>Biochar</i> , 2019, 1, 3-22.	6.2	419
7	Effect of biochar on the extractability of heavy metals (Cd, Cu, Pb, and Zn) and enzyme activity in soil. <i>Environmental Science and Pollution Research</i> , 2016, 23, 974-984.	2.7	412
8	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. <i>International Materials Reviews</i> , 2019, 64, 216-247.	9.4	355
9	Applications of biochar in redox-mediated reactions. <i>Bioresource Technology</i> , 2017, 246, 271-281.	4.8	322
10	Effect of bamboo and rice straw biochars on the bioavailability of Cd, Cu, Pb and Zn to <i>Sedum plumbizincicola</i> . <i>Agriculture, Ecosystems and Environment</i> , 2014, 191, 124-132.	2.5	303
11	Reducing CH ₄ and CO ₂ emissions from waterlogged paddy soil with biochar. <i>Journal of Soils and Sediments</i> , 2011, 11, 930-939.	1.5	302
12	A critical review on bioremediation technologies for Cr(VI)-contaminated soils and wastewater. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1027-1078.	6.6	298
13	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. <i>Environmental Pollution</i> , 2018, 232, 31-41.	3.7	297
14	Insight into the Effects of Biochar on Manure Composting: Evidence Supporting the Relationship between N ₂ O Emission and Denitrifying Community. <i>Environmental Science & Technology</i> , 2013, 47, 7341-7349.	4.6	296
15	Effects of biochar application in forest ecosystems on soil properties and greenhouse gas emissions: a review. <i>Journal of Soils and Sediments</i> , 2018, 18, 546-563.	1.5	287
16	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. <i>Chemosphere</i> , 2018, 200, 274-282.	4.2	254
17	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	9.4	245
18	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. <i>Chemical Engineering Journal</i> , 2020, 396, 125195.	6.6	243

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19	Metagenomic analysis of microbial consortia enriched from compost: new insights into the role of Actinobacteria in lignocellulose decomposition. <i>Biotechnology for Biofuels</i> , 2016, 9, 22.	6.2	237
20	Biochar and bacteria inoculated biochar enhanced Cd and Cu immobilization and enzymatic activity in a polluted soil. <i>Environment International</i> , 2020, 137, 105576.	4.8	236
21	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. <i>Advances in Agronomy</i> , 2019, , 1-107.	2.4	216
22	Contamination and remediation of phthalic acid esters in agricultural soils in China: a review. <i>Agronomy for Sustainable Development</i> , 2015, 35, 519-534.	2.2	206
23	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. <i>Soil Use and Management</i> , 2020, 36, 358-386.	2.6	200
24	Sorption of the herbicide terbuthylazine in two New Zealand forest soils amended with biosolids and biochars. <i>Journal of Soils and Sediments</i> , 2010, 10, 283-289.	1.5	194
25	Novel Fe-Mn binary oxide-biochar as an adsorbent for removing Cd(II) from aqueous solutions. <i>Chemical Engineering Journal</i> , 2020, 389, 124465.	6.6	182
26	Biochar modulates heavy metal toxicity and improves microbial carbon use efficiency in soil. <i>Science of the Total Environment</i> , 2018, 621, 148-159.	3.9	181
27	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. <i>Bioresource Technology</i> , 2018, 263, 385-392.	4.8	181
28	Technological options for the management of biosolids. <i>Environmental Science and Pollution Research</i> , 2008, 15, 308-317.	2.7	175
29	Arsenic removal by Japanese oak wood biochar in aqueous solutions and well water: Investigating arsenic fate using integrated spectroscopic and microscopic techniques. <i>Science of the Total Environment</i> , 2018, 621, 1642-1651.	3.9	175
30	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
31	Unraveling sorption of lead in aqueous solutions by chemically modified biochar derived from coconut fiber: A microscopic and spectroscopic investigation. <i>Science of the Total Environment</i> , 2017, 576, 766-774.	3.9	172
32	Are the biogeochemical cycles of carbon, nitrogen, sulfur, and phosphorus driven by the "Fell redox wheel" in dynamic redox environments?. <i>Journal of Soils and Sediments</i> , 2012, 12, 683-693.	1.5	170
33	Effect of biochar amendment on yield and photosynthesis of peanut on two types of soils. <i>Environmental Science and Pollution Research</i> , 2015, 22, 6112-6125.	2.7	170
34	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils " To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , 2021, 401, 123892.	6.5	169
35	Effect of <i>Pinus radiata</i> derived biochars on soil sorption and desorption of phenanthrene. <i>Environmental Pollution</i> , 2010, 158, 2821-2825.	3.7	167
36	A scientometric review of biochar research in the past 20 years (1998-2018). <i>Biochar</i> , 2019, 1, 23-43.	6.2	160

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37	Sorption of ammonium and phosphate from aqueous solution by biochar derived from phytoremediation plants. <i>Journal of Zhejiang University: Science B</i> , 2013, 14, 1152-1161.	1.3	159
38	Spectroscopic evidence for biochar amendment promoting humic acid synthesis and intensifying humification during composting. <i>Journal of Hazardous Materials</i> , 2014, 280, 409-416.	6.5	159
39	Chemical and biological immobilization mechanisms of potentially toxic elements in biochar-amended soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 903-978.	6.6	157
40	Effects of biochar amendment on rice growth and nitrogen retention in a waterlogged paddy field. <i>Journal of Soils and Sediments</i> , 2015, 15, 153-162.	1.5	156
41	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. <i>Journal of Hazardous Materials</i> , 2021, 407, 124344.	6.5	150
42	A review of recent advancements in utilization of biomass and industrial wastes into engineered biochar. <i>Journal of Hazardous Materials</i> , 2020, 400, 123242.	6.5	149
43	Responses of wheat (<i>Triticum aestivum</i>) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. <i>Ecotoxicology and Environmental Safety</i> , 2019, 173, 156-164.	2.9	145
44	Chemically activated hydrochar as an effective adsorbent for volatile organic compounds (VOCs). <i>Chemosphere</i> , 2019, 218, 680-686.	4.2	145
45	Seasonal soil CO ₂ efflux dynamics after land use change from a natural forest to Moso bamboo plantations in subtropical China. <i>Forest Ecology and Management</i> , 2011, 262, 1131-1137.	1.4	134
46	Bioavailability of Cd and Zn in soils treated with biochars derived from tobacco stalk and dead pigs. <i>Journal of Soils and Sediments</i> , 2017, 17, 751-762.	1.5	133
47	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019, 123, 567-579.	4.8	130
48	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. <i>Chemosphere</i> , 2017, 184, 197-206.	4.2	127
49	Responses of methane emissions and rice yield to applications of biochar and straw in a paddy field. <i>Journal of Soils and Sediments</i> , 2013, 13, 1450-1460.	1.5	126
50	Antimony contamination and its risk management in complex environmental settings: A review. <i>Environment International</i> , 2022, 158, 106908.	4.8	125
51	Red mud modified sludge biochar for the activation of peroxydisulfate: Singlet oxygen dominated mechanism and toxicity prediction. <i>Science of the Total Environment</i> , 2020, 740, 140388.	3.9	124
52	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. <i>Chemosphere</i> , 2018, 198, 450-459.	4.2	121
53	Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating H ₂ O ₂ for ciprofloxacin removal from aqueous solution. <i>Journal of Hazardous Materials</i> , 2019, 380, 120848.	6.5	119
54	Plant impact on the coupled terrestrial biogeochemical cycles of silicon and carbon: Implications for biogeochemical carbon sequestration. <i>Earth-Science Reviews</i> , 2012, 115, 319-331.	4.0	116

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55	Occurrence, turnover and carbon sequestration potential of phytoliths in terrestrial ecosystems. <i>Earth-Science Reviews</i> , 2016, 158, 19-30.	4.0	115
56	Decomposition and the contribution of glomalin-related soil protein (GRSP) in heavy metal sequestration: Field experiment. <i>Soil Biology and Biochemistry</i> , 2014, 68, 283-290.	4.2	113
57	Phosphate-assisted phytoremediation of arsenic by <i>Brassica napus</i> and <i>Brassica juncea</i> : Morphological and physiological response. <i>International Journal of Phytoremediation</i> , 2017, 19, 670-678.	1.7	112
58	Occluded C in rice phytoliths: implications to biogeochemical carbon sequestration. <i>Plant and Soil</i> , 2013, 370, 615-623.	1.8	109
59	Influence of biochar and soil properties on soil and plant tissue concentrations of Cd and Pb: A meta-analysis. <i>Science of the Total Environment</i> , 2021, 755, 142582.	3.9	109
60	Carbon-nitrogen isotope coupling of soil organic matter in a karst region under land use change, Southwest China. <i>Agriculture, Ecosystems and Environment</i> , 2020, 301, 107027.	2.5	108
61	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. <i>Chemical Engineering Journal</i> , 2020, 390, 124611.	6.6	108
62	Effect of aging process on adsorption of diethyl phthalate in soils amended with bamboo biochar. <i>Chemosphere</i> , 2016, 142, 28-34.	4.2	105
63	Visible light photocatalytic degradation of tetracycline with porous Ag/graphite carbon nitride plasmonic composite: Degradation pathways and mechanism. <i>Journal of Colloid and Interface Science</i> , 2020, 574, 110-121.	5.0	105
64	Enhanced adsorption of Cu(II) and Zn(II) from aqueous solution by polyethyleneimine modified straw hydrochar. <i>Science of the Total Environment</i> , 2021, 778, 146116.	3.9	105
65	Redox-induced mobilization of Ag, Sb, Sn, and Tl in the dissolved, colloidal and solid phase of a biochar-treated and un-treated mining soil. <i>Environment International</i> , 2020, 140, 105754.	4.8	104
66	In situ remediation technologies for mercury-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2015, 22, 8124-8147.	2.7	102
67	Long-term fertilizer application effects on the soil, root arbuscular mycorrhizal fungi and community composition in rotation agriculture. <i>Applied Soil Ecology</i> , 2015, 89, 35-43.	2.1	96
68	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. <i>Science of the Total Environment</i> , 2018, 645, 1444-1455.	3.9	96
69	The impact of crop residue biochars on silicon and nutrient cycles in croplands. <i>Science of the Total Environment</i> , 2019, 659, 673-680.	3.9	94
70	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
71	Effects of biochar application on fluxes of three biogenic greenhouse gases: a meta-analysis. <i>Ecosystem Health and Sustainability</i> , 2016, 2, .	1.5	91
72	Effects of laboratory biotic aging on the characteristics of biochar and its water-soluble organic products. <i>Journal of Hazardous Materials</i> , 2020, 382, 121071.	6.5	90

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73	Ball milling biochar with ammonia hydroxide or hydrogen peroxide enhances its adsorption of phenyl volatile organic compounds (VOCs). <i>Journal of Hazardous Materials</i> , 2021, 403, 123540.	6.5	89
74	Enhanced sorption of trivalent antimony by chitosan-loaded biochar in aqueous solutions: Characterization, performance and mechanisms. <i>Journal of Hazardous Materials</i> , 2022, 425, 127971.	6.5	89
75	Animal carcass- and wood-derived biochars improved nutrient bioavailability, enzyme activity, and plant growth in metal-phthalic acid ester co-contaminated soils: A trial for reclamation and improvement of degraded soils. <i>Journal of Environmental Management</i> , 2020, 261, 110246.	3.8	86
76	Effect of compost addition on arsenic uptake, morphological and physiological attributes of maize plants grown in contrasting soils. <i>Journal of Geochemical Exploration</i> , 2017, 178, 83-91.	1.5	81
77	Humic substances as a washing agent for Cd-contaminated soils. <i>Chemosphere</i> , 2017, 181, 461-467.	4.2	79
78	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. <i>Science of the Total Environment</i> , 2019, 672, 572-582.	3.9	79
79	Efficient degradation of diclofenac sodium by periodate activation using Fe/Cu bimetallic modified sewage sludge biochar/UV system. <i>Science of the Total Environment</i> , 2021, 783, 146974.	3.9	79
80	Quantitative analysis on the mechanism of Cd ²⁺ removal by MgCl ₂ -modified biochar in aqueous solutions. <i>Journal of Hazardous Materials</i> , 2021, 420, 126487.	6.5	78
81	Effect of biochars on the bioavailability of cadmium and di-(2-ethylhexyl) phthalate to <i>Brassica chinensis</i> L. in contaminated soils. <i>Science of the Total Environment</i> , 2019, 678, 43-52.	3.9	77
82	Immobilization of cadmium and lead using phosphorus-rich animal-derived and iron-modified plant-derived biochars under dynamic redox conditions in a paddy soil. <i>Environment International</i> , 2021, 156, 106628.	4.8	77
83	Biochar increased soil respiration in temperate forests but had no effects in subtropical forests. <i>Forest Ecology and Management</i> , 2017, 405, 339-349.	1.4	76
84	Biochar decreases soil N ₂ O emissions in Moso bamboo plantations through decreasing labile N concentrations, N-cycling enzyme activities and nitrification/denitrification rates. <i>Geoderma</i> , 2019, 348, 135-145.	2.3	76
85	Understanding the role of natural clay minerals as effective adsorbents and alternative source of rare earth elements: Adsorption operative parameters. <i>Hydrometallurgy</i> , 2019, 185, 149-161.	1.8	76
86	Effects of metal ions and pH on ofloxacin sorption to cassava residue-derived biochar. <i>Science of the Total Environment</i> , 2018, 616-617, 1384-1391.	3.9	74
87	Responses of soil greenhouse gas emissions to different application rates of biochar in a subtropical Chinese chestnut plantation. <i>Agricultural and Forest Meteorology</i> , 2019, 271, 168-179.	1.9	74
88	Carbon-coated montmorillonite nanocomposite for the removal of chromium(VI) from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2019, 368, 541-549.	6.5	73
89	Assessing the effect of pyrolysis temperature on the molecular properties and copper sorption capacity of a halophyte biochar. <i>Environmental Pollution</i> , 2019, 251, 56-65.	3.7	73
90	Pyrogenic carbon and its role in contaminant immobilization in soils. <i>Critical Reviews in Environmental Science and Technology</i> , 2017, 47, 795-876.	6.6	72

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91	Pristine and iron-engineered animal- and plant-derived biochars enhanced bacterial abundance and immobilized arsenic and lead in a contaminated soil. <i>Science of the Total Environment</i> , 2021, 763, 144218.	3.9	72
92	Visualizing the emerging trends of biochar research and applications in 2019: a scientometric analysis and review. <i>Biochar</i> , 2020, 2, 135-150.	6.2	71
93	Microorganisms-carbonaceous materials immobilized complexes: Synthesis, adaptability and environmental applications. <i>Journal of Hazardous Materials</i> , 2021, 416, 125915.	6.5	71
94	Magnetic bimetallic Fe, Ce-embedded N-enriched porous biochar for peroxymonosulfate activation in metronidazole degradation: Applications, mechanism insight and toxicity evaluation. <i>Chemical Engineering Journal</i> , 2022, 433, 134387.	6.6	71
95	Thermal Properties of Biochars Derived from Waste Biomass Generated by Agricultural and Forestry Sectors. <i>Energies</i> , 2017, 10, 469.	1.6	69
96	Interactions between organic matter and Fe (hydr)oxides and their influences on immobilization and remobilization of metal(loid)s: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 4016-4037.	6.6	68
97	Influence of pyrolysis temperature on lead immobilization by chemically modified coconut fiber-derived biochars in aqueous environments. <i>Environmental Science and Pollution Research</i> , 2016, 23, 22890-22896.	2.7	67
98	Subcellular Distribution of Metals within <i>Brassica chinensis</i> L. in Response to Elevated Lead and Chromium Stress. <i>Journal of Agricultural and Food Chemistry</i> , 2013, 61, 4715-4722.	2.4	66
99	MnO ₂ -decorated N-doped carbon nanotube with boosted activity for low-temperature oxidation of formaldehyde. <i>Journal of Hazardous Materials</i> , 2020, 396, 122750.	6.5	66
100	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. <i>Science of the Total Environment</i> , 2018, 625, 987-993.	3.9	65
101	Carbon nanotube-grafted chitosan and its adsorption capacity for phenol in aqueous solution. <i>Science of the Total Environment</i> , 2019, 682, 340-347.	3.9	64
102	An overview of the environmental effects of land application of farm effluents. <i>New Zealand Journal of Agricultural Research</i> , 2004, 47, 389-403.	0.9	63
103	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. <i>Environment International</i> , 2020, 135, 105376.	4.8	63
104	Distribution, sources, and decomposition of soil organic matter along a salinity gradient in estuarine wetlands characterized by C:N ratio, $\delta^{13}\text{C}$, and lignin biomarker. <i>Global Change Biology</i> , 2021, 27, 417-434.	4.2	63
105	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. <i>Environmental Pollution</i> , 2022, 293, 118564.	3.7	63
106	NosZ clade II rather than clade I determine in situ N ₂ O emissions with different fertilizer types under simulated climate change and its legacy. <i>Soil Biology and Biochemistry</i> , 2020, 150, 107974.	4.2	62
107	<i>Spartina alterniflora</i> invasion controls organic carbon stocks in coastal marsh and mangrove soils across tropics and subtropics. <i>Global Change Biology</i> , 2021, 27, 1627-1644.	4.2	62
108	Hydroxyapatite tailored hierarchical porous biochar composite immobilized Cd(II) and Pb(II) and mitigated their hazardous effects in contaminated water and soil. <i>Journal of Hazardous Materials</i> , 2022, 437, 129330.	6.5	62

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109	Catalytic Pyrolysis of Polystyrene over Steel Slag under CO ₂ Environment. <i>Journal of Hazardous Materials</i> , 2020, 395, 122576.	6.5	61
110	Effect of temperature on phosphorus sorption to sediments from shallow eutrophic lakes. <i>Ecological Engineering</i> , 2011, 37, 1515-1522.	1.6	59
111	Phytolith carbon sequestration in China's croplands. <i>European Journal of Agronomy</i> , 2014, 53, 10-15.	1.9	59
112	An effective biochar-based slow-release fertilizer for reducing nitrogen loss in paddy fields. <i>Journal of Soils and Sediments</i> , 2020, 20, 3027-3040.	1.5	58
113	Limited Cu(II) binding to biochar DOM: Evidence from C K-edge NEXAFS and EEM-PARAFAC combined with two-dimensional correlation analysis. <i>Science of the Total Environment</i> , 2020, 701, 134919.	3.9	57
114	Coconut-fiber biochar reduced the bioavailability of lead but increased its translocation rate in rice plants: Elucidation of immobilization mechanisms and significance of iron plaque barrier on roots using spectroscopic techniques. <i>Journal of Hazardous Materials</i> , 2020, 389, 122117.	6.5	57
115	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. <i>Journal of Hazardous Materials</i> , 2022, 422, 126808.	6.5	57
116	A critical review on remediation of bisphenol S (BPS) contaminated water: Efficacy and mechanisms. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 476-522.	6.6	56
117	Landfills as a biorefinery to produce biomass and capture biogas. <i>Bioresource Technology</i> , 2013, 135, 578-587.	4.8	55
118	Biochar reduces the bioavailability of di-(2-ethylhexyl) phthalate in soil. <i>Chemosphere</i> , 2016, 142, 24-27.	4.2	55
119	Plant and soil responses to hydrothermally converted sewage sludge (sewchar). <i>Chemosphere</i> , 2018, 206, 338-348.	4.2	55
120	Characteristics and applications of biochar for remediating Cr(VI)-contaminated soils and wastewater. <i>Environmental Geochemistry and Health</i> , 2020, 42, 1543-1567.	1.8	55
121	Simulated photocatalytic aging of biochar in soil ecosystem: Insight into organic carbon release, surface physicochemical properties and cadmium sorption. <i>Environmental Research</i> , 2020, 183, 109241.	3.7	55
122	Economic analysis of growth response from a pine plantation forest applied with biosolids. <i>Forest Ecology and Management</i> , 2004, 189, 345-351.	1.4	54
123	Environmental heterogeneity analysis, assessment of trophic state and source identification in Chaohu Lake, China. <i>Environmental Science and Pollution Research</i> , 2011, 18, 1333-1342.	2.7	54
124	Achieving the safe use of Cd- and As-contaminated agricultural land with an Fe-based biochar: A field study. <i>Science of the Total Environment</i> , 2020, 706, 135898.	3.9	54
125	Biogeochemical silicon cycle and carbon sequestration in agricultural ecosystems. <i>Earth-Science Reviews</i> , 2014, 139, 268-278.	4.0	53
126	Spatial variation of organic carbon density in topsoils of a typical subtropical forest, southeastern China. <i>Catena</i> , 2018, 167, 181-189.	2.2	53

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127	Pyrolysis Temperature-Dependent Changes in the Characteristics of Biochar-Borne Dissolved Organic Matter and Its Copper Binding Properties. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2019, 103, 169-174.	1.3	53
128	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
129	Soil microbial communities and enzyme activities in a reclaimed coastal soil chronosequence under rice-barley cropping. <i>Journal of Soils and Sediments</i> , 2012, 12, 1134-1144.	1.5	52
130	Photocatalytic performance and mechanism of Z-Scheme CuBi ₂ O ₄ /Ag ₃ PO ₄ in the degradation of diclofenac sodium under visible light irradiation: Effects of pH, H ₂ O ₂ , and S ₂ O ₈ ²⁻ . <i>Science of the Total Environment</i> , 2020, 711, 134643.	3.9	52
131	Sewage sludge-derived hydrochar that inhibits ammonia volatilization, improves soil nitrogen retention and rice nitrogen utilization. <i>Chemosphere</i> , 2020, 245, 125558.	4.2	51
132	Towards a better understanding of the role of Fe cycling in soil for carbon stabilization and degradation. , 2022, 1, .		51
133	Soil CO ₂ flux dynamics in the two main plantation forest types in subtropical China. <i>Science of the Total Environment</i> , 2013, 444, 363-368.	3.9	50
134	Responses of ammonia volatilization from rice paddy soil to application of wood vinegar alone or combined with biochar. <i>Chemosphere</i> , 2020, 242, 125247.	4.2	50
135	Rapid soil fungal community response to intensive management in a bamboo forest developed from rice paddies. <i>Soil Biology and Biochemistry</i> , 2014, 68, 177-184.	4.2	49
136	Increase of available soil silicon by Si-rich manure for sustainable rice production. <i>Agronomy for Sustainable Development</i> , 2014, 34, 813-819.	2.2	49
137	Enhancing phytolith carbon sequestration in rice ecosystems through basalt powder amendment. <i>Science Bulletin</i> , 2015, 60, 591-597.	4.3	48
138	Management of biosolids-derived hydrochar (Sewchar): Effect on plant germination, and farmers' acceptance. <i>Journal of Environmental Management</i> , 2019, 237, 200-214.	3.8	48
139	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
140	Distribution, transformation and remediation of poly- and per-fluoroalkyl substances (PFAS) in wastewater sources. <i>Chemical Engineering Research and Design</i> , 2022, 164, 91-108.	2.7	48
141	Kinetics of the pyrolytic and hydrothermal decomposition of water hyacinth. <i>Bioresource Technology</i> , 2011, 102, 6990-6994.	4.8	47
142	Decontamination of anaerobically digested slurry in a paddy field ecosystem in Jiaying region of China. <i>Agriculture, Ecosystems and Environment</i> , 2012, 146, 13-22.	2.5	47
143	Phytolith accumulation in broadleaf and conifer forests of northern China: Implications for phytolith carbon sequestration. <i>Geoderma</i> , 2018, 312, 36-44.	2.3	47
144	Silicon regulation of soil organic carbon stabilization and its potential to mitigate climate change. <i>Earth-Science Reviews</i> , 2018, 185, 463-475.	4.0	47

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145	Hydrogeochemical and health risk evaluation of arsenic in shallow and deep aquifers along the different floodplains of Punjab, Pakistan. <i>Journal of Hazardous Materials</i> , 2021, 402, 124074.	6.5	46
146	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. <i>Journal of Hazardous Materials</i> , 2021, 416, 125702.	6.5	46
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