Hailong Wang

List of Publications by Year
in descending order

349 papers	23,253 citations	8181 76 h-index	12597 132 g-index
354 all docs	354 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. Chemical Engineering Journal, 2019, 366, 608-621.	12.7	790
2	Using biochar for remediation of soils contaminated with heavy metals and organic pollutants. Environmental Science and Pollution Research, 2013, 20, 8472-8483.	5.3	663
3	Chemical characterization of rice straw-derived biochar for soil amendment. Biomass and Bioenergy, 2012, 47, 268-276.	5.7	517
4	Effect of bamboo and rice straw biochars on the mobility and redistribution of heavy metals (Cd, Cu,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	7.8	471
5	Removal of Cu, Zn, and Cd from aqueous solutions by the dairy manure-derived biochar. Environmental Science and Pollution Research, 2013, 20, 358-368.	5.3	460
6	Response of microbial communities to biochar-amended soils: a critical review. Biochar, 2019, 1, 3-22.	12.6	419
7	Effect of biochar on the extractability of heavy metals (Cd, Cu, Pb, and Zn) and enzyme activity in soil. Environmental Science and Pollution Research, 2016, 23, 974-984.	5.3	412
8	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. International Materials Reviews, 2019, 64, 216-247.	19.3	355
9	Applications of biochar in redox-mediated reactions. Bioresource Technology, 2017, 246, 271-281.	9.6	322
10	Effect of bamboo and rice straw biochars on the bioavailability of Cd, Cu, Pb and Zn to Sedum plumbizincicola. Agriculture, Ecosystems and Environment, 2014, 191, 124-132.	5.3	303
11	Reducing CH4 and CO2 emissions from waterlogged paddy soil with biochar. Journal of Soils and Sediments, 2011, 11, 930-939.	3.0	302
12	A critical review on bioremediation technologies for Cr(VI)-contaminated soils and wastewater. Critical Reviews in Environmental Science and Technology, 2019, 49, 1027-1078.	12.8	298
13	Arsenic removal by perilla leaf biochar in aqueous solutions and groundwater: An integrated spectroscopic and microscopic examination. Environmental Pollution, 2018, 232, 31-41.	7.5	297
14	Insight into the Effects of Biochar on Manure Composting: Evidence Supporting the Relationship between N₂O Emission and Denitrifying Community. Environmental Science & Technology, 2013, 47, 7341-7349.	10.0	296
15	Effects of biochar application in forest ecosystems on soil properties and greenhouse gas emissions: a review. Journal of Soils and Sediments, 2018, 18, 546-563.	3.0	287
16	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. Chemosphere, 2018, 200, 274-282.	8.2	254
17	Multifunctional applications of biochar beyond carbon storage. International Materials Reviews, 2022, 67, 150-200.	19.3	245
18	A critical review on arsenic removal from water using biochar-based sorbents: The significance of modification and redox reactions. Chemical Engineering Journal, 2020, 396, 125195.	12.7	243

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19	Metagenomic analysis of microbial consortia enriched from compost: new insights into the role of Actinobacteria in lignocellulose decomposition. Biotechnology for Biofuels, 2016, 9, 22.	6.2	237
20	Biochar and bacteria inoculated biochar enhanced Cd and Cu immobilization and enzymatic activity in a polluted soil. Environment International, 2020, 137, 105576.	10.0	236
21	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. Advances in Agronomy, 2019, , 1-107.	5.2	216
22	Contamination and remediation of phthalic acid esters in agricultural soils in China: a review. Agronomy for Sustainable Development, 2015, 35, 519-534.	5.3	206
23	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. Soil Use and Management, 2020, 36, 358-386.	4.9	200
24	Sorption of the herbicide terbuthylazine in two New Zealand forest soils amended with biosolids and biochars. Journal of Soils and Sediments, 2010, 10, 283-289.	3.0	194
25	Novel Fe-Mn binary oxide-biochar as an adsorbent for removing Cd(II) from aqueous solutions. Chemical Engineering Journal, 2020, 389, 124465.	12.7	182
26	Biochar modulates heavy metal toxicity and improves microbial carbon use efficiency in soil. Science of the Total Environment, 2018, 621, 148-159.	8.0	181
27	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. Bioresource Technology, 2018, 263, 385-392.	9.6	181
28	Technological options for the management of biosolids. Environmental Science and Pollution Research, 2008, 15, 308-317.	5.3	175
29	Arsenic removal by Japanese oak wood biochar in aqueous solutions and well water: Investigating arsenic fate using integrated spectroscopic and microscopic techniques. Science of the Total Environment, 2018, 621, 1642-1651.	8.0	175
30	Recovery, regeneration and sustainable management of spent adsorbents from wastewater treatment streams: A review. Science of the Total Environment, 2022, 822, 153555.	8.0	174
31	Unraveling sorption of lead in aqueous solutions by chemically modified biochar derived from coconut fiber: A microscopic and spectroscopic investigation. Science of the Total Environment, 2017, 576, 766-774.	8.0	172
32	Are the biogeochemical cycles of carbon, nitrogen, sulfur, and phosphorus driven by the â€œFeIIIâ€“FeII redox wheelâ€•in dynamic redox environments?. Journal of Soils and Sediments, 2012, 12, 683-693.	3.0	170
33	Effect of biochar amendment on yield and photosynthesis of peanut on two types of soils. Environmental Science and Pollution Research, 2015, 22, 6112-6125.	5.3	170
34	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils â€“ To mobilize or to immobilize or to degrade?. Journal of Hazardous Materials, 2021, 401, 123892.	12.4	169
35	Effect of Pinus radiata derived biochars on soil sorption and desorption of phenanthrene. Environmental Pollution, 2010, 158, 2821-2825.	7.5	167
36	A scientometric review of biochar research in the past 20Âyears (1998â€“2018). Biochar, 2019, 1, 23-43.	12.6	160

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37	Sorption of ammonium and phosphate from aqueous solution by biochar derived from phytoremediation plants. Journal of Zhejiang University: Science B, 2013, 14, 1152-1161.	2.8	159
38	Spectroscopic evidence for biochar amendment promoting humic acid synthesis and intensifying humification during composting. Journal of Hazardous Materials, 2014, 280, 409-416.	12.4	159
39	Chemical and biological immobilization mechanisms of potentially toxic elements in biochar-amended soils. Critical Reviews in Environmental Science and Technology, 2020, 50, 903-978.	12.8	157
40	Effects of biochar amendment on rice growth and nitrogen retention in a waterlogged paddy field. Journal of Soils and Sediments, 2015, 15, 153-162.	3.0	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. Journal of Hazardous Materials, 2021, 407, 124344.	12.4	150
42	A review of recent advancements in utilization of biomass and industrial wastes into engineered biochar. Journal of Hazardous Materials, 2020, 400, 123242.	12.4	149
43	Responses of wheat (Triticum aestivum) plants grown in a Cd contaminated soil to the application of iron oxide nanoparticles. Ecotoxicology and Environmental Safety, 2019, 173, 156-164.	6.0	145
44	Chemically activated hydrochar as an effective adsorbent for volatile organic compounds (VOCs). Chemosphere, 2019, 218, 680-686.	8.2	145
45	Seasonal soil CO2 efflux dynamics after land use change from a natural forest to Moso bamboo plantations in subtropical China. Forest Ecology and Management, 2011, 262, 1131-1137.	3.2	134
46	Bioavailability of Cd and Zn in soils treated with biochars derived from tobacco stalk and dead pigs. Journal of Soils and Sediments, 2017, 17, 751-762.	3.0	133
47	Exploring the arsenic removal potential of various biosorbents from water. Environment International, 2019, 123, 567-579.	10.0	130
48	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. Chemosphere, 2017, 184, 197-206.	8.2	127
49	Responses of methane emissions and rice yield to applications of biochar and straw in a paddy field. Journal of Soils and Sediments, 2013, 13, 1450-1460.	3.0	126
50	Antimony contamination and its risk management in complex environmental settings: A review. Environment International, 2022, 158, 106908.	10.0	125
51	Red mud modified sludge biochar for the activation of peroxymonosulfate: Singlet oxygen dominated mechanism and toxicity prediction. Science of the Total Environment, 2020, 740, 140388.	8.0	124
52	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. Chemosphere, 2018, 198, 450-459.	8.2	121
53	Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating H2O2 for ciprofloxacin removal from aqueous solution. Journal of Hazardous Materials, 2019, 380, 120848.	12.4	119
54	Plant impact on the coupled terrestrial biogeochemical cycles of silicon and carbon: Implications for biogeochemical carbon sequestration. Earth-Science Reviews, 2012, 115, 319-331.	9.1	116

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55	Occurrence, turnover and carbon sequestration potential of phytoliths in terrestrial ecosystems. Earth-Science Reviews, 2016, 158, 19-30.	9.1	115
56	Decomposition and the contribution of glomalin-related soil protein (GRSP) in heavy metal sequestration: Field experiment. Soil Biology and Biochemistry, 2014, 68, 283-290.	8.8	113
57	Phosphate-assisted phytoremediation of arsenic byBrassica napusandBrassica juncea: Morphological and physiological response. International Journal of Phytoremediation, 2017, 19, 670-678.	3.1	112
58	Occluded C in rice phytoliths: implications to biogeochemical carbon sequestration. Plant and Soil, 2013, 370, 615-623.	3.7	109
59	Influence of biochar and soil properties on soil and plant tissue concentrations of Cd and Pb: A meta-analysis. Science of the Total Environment, 2021, 755, 142582.	8.0	109
60	Carbon-nitrogen isotope coupling of soil organic matter in a karst region under land use change, Southwest China. Agriculture, Ecosystems and Environment, 2020, 301, 107027.	5.3	108
61	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. Chemical Engineering Journal, 2020, 390, 124611.	12.7	108
62	Effect of aging process on adsorption of diethyl phthalate in soils amended with bamboo biochar. Chemosphere, 2016, 142, 28-34.	8.2	105
63	Visible light photocatalytic degradation of tetracycline with porous Ag/graphite carbon nitride plasmonic composite: Degradation pathways and mechanism. Journal of Colloid and Interface Science, 2020, 574, 110-121.	9.4	105
64	Enhanced adsorption of Cu(II) and Zn(II) from aqueous solution by polyethyleneimine modified straw hydrochar. Science of the Total Environment, 2021, 778, 146116.	8.0	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. Environment International, 2020, 140, 105754.	10.0	104
66	In situ remediation technologies for mercury-contaminated soil. Environmental Science and Pollution Research, 2015, 22, 8124-8147.	5.3	102
67	Long-term fertilizer application effects on the soil, root arbuscular mycorrhizal fungi and community composition in rotation agriculture. Applied Soil Ecology, 2015, 89, 35-43.	4.3	96
68	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. Science of the Total Environment, 2018, 645, 1444-1455.	8.0	96
69	The impact of crop residue biochars on silicon and nutrient cycles in croplands. Science of the Total Environment, 2019, 659, 673-680.	8.0	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 metaâ€analysis. Ecosystem Health and Sustainability, 2016, 2, .	3.1	91
72	Effects of laboratory biotic aging on the characteristics of biochar and its water-soluble organic products. Journal of Hazardous Materials, 2020, 382, 121071.	12.4	90

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73	Ball milling biochar with ammonia hydroxide or hydrogen peroxide enhances its adsorption of phenyl volatile organic compounds (VOCs). Journal of Hazardous Materials, 2021, 403, 123540.	12.4	89
74	Enhanced sorption of trivalent antimony by chitosan-loaded biochar in aqueous solutions: Characterization, performance and mechanisms. Journal of Hazardous Materials, 2022, 425, 127971.	12.4	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. Journal of Environmental Management, 2020, 261, 110246.	7.8	86
76	Effect of compost addition on arsenic uptake, morphological and physiological attributes of maize plants grown in contrasting soils. Journal of Geochemical Exploration, 2017, 178, 83-91.	3.2	81
77	Humic substances as a washing agent for Cd-contaminated soils. Chemosphere, 2017, 181, 461-467.	8.2	79
78	Sorption mechanisms of lead on silicon-rich biochar in aqueous solution: Spectroscopic investigation. Science of the Total Environment, 2019, 672, 572-582.	8.0	79
79	Efficient degradation of diclofenac sodium by periodate activation using Fe/Cu bimetallic modified sewage sludge biochar/UV system. Science of the Total Environment, 2021, 783, 146974.	8.0	79
80	Quantitative analysis on the mechanism of Cd2+ removal by MgCl2-modified biochar in aqueous solutions. Journal of Hazardous Materials, 2021, 420, 126487.	12.4	78
81	Effect of biochars on the bioavailability of cadmium and di-(2-ethylhexyl) phthalate to Brassica chinensis L. in contaminated soils. Science of the Total Environment, 2019, 678, 43-52.	8.0	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. Environment International, 2021, 156, 106628.	10.0	77
83	Biochar increased soil respiration in temperate forests but had no effects in subtropical forests. Forest Ecology and Management, 2017, 405, 339-349.	3.2	76
84	Biochar decreases soil N2O emissions in Moso bamboo plantations through decreasing labile N concentrations, N-cycling enzyme activities and nitrification/denitrification rates. Geoderma, 2019, 348, 135-145.	5.1	76
85	Understanding the role of natural clay minerals as effective adsorbents and alternative source of rare earth elements: Adsorption operative parameters. Hydrometallurgy, 2019, 185, 149-161.	4.3	76
86	Effects of metal ions and pH on ofloxacin sorption to cassava residue-derived biochar. Science of the Total Environment, 2018, 616-617, 1384-1391.	8.0	74
87	Responses of soil greenhouse gas emissions to different application rates of biochar in a subtropical Chinese chestnut plantation. Agricultural and Forest Meteorology, 2019, 271, 168-179.	4.8	74
88	Carbon-coated montmorillonite nanocomposite for the removal of chromium(VI) from aqueous solutions. Journal of Hazardous Materials, 2019, 368, 541-549.	12.4	73
89	Assessing the effect of pyrolysis temperature on the molecular properties and copper sorption capacity of a halophyte biochar. Environmental Pollution, 2019, 251, 56-65.	7.5	73
90	Pyrogenic carbon and its role in contaminant immobilization in soils. Critical Reviews in Environmental Science and Technology, 2017, 47, 795-876.	12.8	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. Science of the Total Environment, 2021, 763, 144218.	8.0	72
92	Visualizing the emerging trends of biochar research and applications in 2019: a scientometric analysis and review. Biochar, 2020, 2, 135-150.	12.6	71
93	Microorganisms-carbonaceous materials immobilized complexes: Synthesis, adaptability and environmental applications. Journal of Hazardous Materials, 2021, 416, 125915.	12.4	71
94	Magnetic bimetallic Fe, Ce-embedded N-enriched porous biochar for peroxymonosulfate activation in metronidazole degradation: Applications, mechanism insight and toxicity evaluation. Chemical Engineering Journal, 2022, 433, 134387.	12.7	71
95	Thermal Properties of Biochars Derived from Waste Biomass Generated by Agricultural and Forestry Sectors. Energies, 2017, 10, 469.	3.1	69
96	Interactions between organic matter and Fe (hydr)oxides and their influences on immobilization and remobilization of metal(loid)s: A review. Critical Reviews in Environmental Science and Technology, 2022, 52, 4016-4037.	12.8	68
97	Influence of pyrolysis temperature on lead immobilization by chemically modified coconut fiber-derived biochars in aqueous environments. Environmental Science and Pollution Research, 2016, 23, 22890-22896.	5.3	67
98	Subcellular Distribution of Metals within Brassica chinensis L. in Response to Elevated Lead and Chromium Stress. Journal of Agricultural and Food Chemistry, 2013, 61, 4715-4722.	5.2	66
99	MnO2-decorated N-doped carbon nanotube with boosted activity for low-temperature oxidation of formaldehyde. Journal of Hazardous Materials, 2020, 396, 122750.	12.4	66
100	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. Science of the Total Environment, 2018, 625, 987-993.	8.0	65
101	Carbon nanotube-grafted chitosan and its adsorption capacity for phenol in aqueous solution. Science of the Total Environment, 2019, 682, 340-347.	8.0	64
102	An overview of the environmental effects of land application of farm effluents. New Zealand Journal of Agricultural Research, 2004, 47, 389-403.	1.6	63
103	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. Environment International, 2020, 135, 105376.	10.0	63
104	Distribution, sources, and decomposition of soil organic matter along a salinity gradient in estuarine wetlands characterized by C:N ratio, Î´¹³Câ€Î´¹⁵N, and lignin biomarker. Global Change Biology, 2021, 27, 417-434.	9.5	63
105	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. Environmental Pollution, 2022, 293, 118564.	7.5	63
106	NosZ clade II rather than clade I determine in situ N2O emissions with different fertilizer types under simulated climate change and its legacy. Soil Biology and Biochemistry, 2020, 150, 107974.	8.8	62
107	Spartina alterniflora invasion controls organic carbon stocks in coastal marsh and mangrove soils across tropics and subtropics. Global Change Biology, 2021, 27, 1627-1644.	9.5	62
108	Hydroxyapatite tailored hierarchical porous biochar composite immobilized Cd(II) and Pb(II) and mitigated their hazardous effects in contaminated water and soil. Journal of Hazardous Materials, 2022, 437, 129330.	12.4	62

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109	Catalytic Pyrolysis of Polystyrene over Steel Slag under CO2 Environment. Journal of Hazardous Materials, 2020, 395, 122576.	12.4	61
110	Effect of temperature on phosphorus sorption to sediments from shallow eutrophic lakes. Ecological Engineering, 2011, 37, 1515-1522.	3.6	59
111	Phytolith carbon sequestration in China's croplands. European Journal of Agronomy, 2014, 53, 10-15.	4.1	59
112	An effective biochar-based slow-release fertilizer for reducing nitrogen loss in paddy fields. Journal of Soils and Sediments, 2020, 20, 3027-3040.	3.0	58
113	Limited Cu(II) binding to biochar DOM: Evidence from C K-edge NEXAFS and EEM-PARAFAC combined with two-dimensional correlation analysis. Science of the Total Environment, 2020, 701, 134919.	8.0	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. Journal of Hazardous Materials, 2020, 389, 122117.	12.4	57
115	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. Journal of Hazardous Materials, 2022, 422, 126808.	12.4	57
116	A critical review on remediation of bisphenol S (BPS) contaminated water: Efficacy and mechanisms. Critical Reviews in Environmental Science and Technology, 2020, 50, 476-522.	12.8	56
117	Landfills as a biorefinery to produce biomass and capture biogas. Bioresource Technology, 2013, 135, 578-587.	9.6	55
118	Biochar reduces the bioavailability of di-(2-ethylhexyl) phthalate in soil. Chemosphere, 2016, 142, 24-27.	8.2	55
119	Plant and soil responses to hydrothermally converted sewage sludge (sewchar). Chemosphere, 2018, 206, 338-348.	8.2	55
120	Characteristics and applications of biochar for remediating Cr(VI)-contaminated soils and wastewater. Environmental Geochemistry and Health, 2020, 42, 1543-1567.	3.4	55
121	Simulated photocatalytic aging of biochar in soil ecosystem: Insight into organic carbon release, surface physicochemical properties and cadmium sorption. Environmental Research, 2020, 183, 109241.	7.5	55
122	Economic analysis of growth response from a pine plantation forest applied with biosolids. Forest Ecology and Management, 2004, 189, 345-351.	3.2	54
123	Environmental heterogeneity analysis, assessment of trophic state and source identification in Chaohu Lake, China. Environmental Science and Pollution Research, 2011, 18, 1333-1342.	5.3	54
124	Achieving the safe use of Cd- and As-contaminated agricultural land with an Fe-based biochar: A field study. Science of the Total Environment, 2020, 706, 135898.	8.0	54
125	Biogeochemical silicon cycle and carbon sequestration in agricultural ecosystems. Earth-Science Reviews, 2014, 139, 268-278.	9.1	53
126	Spatial variation of organic carbon density in topsoils of a typical subtropical forest, southeastern China. Catena, 2018, 167, 181-189.	5.0	53

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127	Pyrolysis Temperature-Dependent Changes in the Characteristics of Biochar-Borne Dissolved Organic Matter and Its Copper Binding Properties. Bulletin of Environmental Contamination and Toxicology, 2019, 103, 169-174.	2.7	53
128	Biochar as a potential strategy for remediation of contaminated mining soils: Mechanisms, applications, and future perspectives. Journal of Environmental Management, 2022, 313, 114973.	7.8	53
129	Soil microbial communities and enzyme activities in a reclaimed coastal soil chronosequence under riceâ€“barley cropping. Journal of Soils and Sediments, 2012, 12, 1134-1144.	3.0	52
130	Photocatalytic performance and mechanism of Z-Scheme CuBi2O4/Ag3PO4 in the degradation of diclofenac sodium under visible light irradiation: Effects of pH, H2O2, and S2O82â^'. Science of the Total Environment, 2020, 711, 134643.	8.0	52
131	Sewage sludge-derived hydrochar that inhibits ammonia volatilization, improves soil nitrogen retention and rice nitrogen utilization. Chemosphere, 2020, 245, 125558.	8.2	51
132	Towards a better understanding of the role of Fe cycling in soil for carbon stabilization and degradation. , 2022, 1, .		51
133	Soil CO2 flux dynamics in the two main plantation forest types in subtropical China. Science of the Total Environment, 2013, 444, 363-368.	8.0	50
134	Responses of ammonia volatilization from rice paddy soil to application of wood vinegar alone or combined with biochar. Chemosphere, 2020, 242, 125247.	8.2	50
135	Rapid soil fungal community response to intensive management in a bamboo forest developed from rice paddies. Soil Biology and Biochemistry, 2014, 68, 177-184.	8.8	49
136	Increase of available soil silicon by Si-rich manure for sustainable rice production. Agronomy for Sustainable Development, 2014, 34, 813-819.	5.3	49
137	Enhancing phytolith carbon sequestration in rice ecosystems through basalt powder amendment. Science Bulletin, 2015, 60, 591-597.	9.0	48
138	Management of biosolids-derived hydrochar (Sewchar): Effect on plant germination, and farmers' acceptance. Journal of Environmental Management, 2019, 237, 200-214.	7.8	48
139	Modification of ordered mesoporous carbon for removal of environmental contaminants from aqueous phase: A review. Journal of Hazardous Materials, 2021, 418, 126266.	12.4	48
140	Distribution, transformation and remediation of poly- and per-fluoroalkyl substances (PFAS) in wastewater sources. Chemical Engineering Research and Design, 2022, 164, 91-108.	5.6	48
141	Kinetics of the pyrolytic and hydrothermal decomposition of water hyacinth. Bioresource Technology, 2011, 102, 6990-6994.	9.6	47
142	Decontamination of anaerobically digested slurry in a paddy field ecosystem in Jiaxing region of China. Agriculture, Ecosystems and Environment, 2012, 146, 13-22.	5.3	47
143	Phytolith accumulation in broadleaf and conifer forests of northern China: Implications for phytolith carbon sequestration. Geoderma, 2018, 312, 36-44.	5.1	47
144	Silicon regulation of soil organic carbon stabilization and its potential to mitigate climate change. Earth-Science Reviews, 2018, 185, 463-475.	9.1	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. Journal of Hazardous Materials, 2021, 402, 124074.	12.4	46
146	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. Journal of Hazardous Materials, 2021, 416, 125702.	12.4	46
147	A critical review of biochar-based nitrogen fertilizers and their effects on crop production and the environment. Biochar, 2022, 4, .	12.6	46
148	Sugarcane bagasse biochars impact respiration and greenhouse gas emissions from a latosol. Journal of Soils and Sediments, 2017, 17, 632-640.	3.0	45
149	Soil properties and the growth of wheat (Triticum aestivum L.) and maize (Zea mays L.) in response to reed (phragmites communis) biochar use in a salt-affected soil in the Yellow River Delta. Agriculture, Ecosystems and Environment, 2020, 303, 107124.	5.3	45
150	Rice (Oryza sativa L) plantation affects the stability of biochar in paddy soil. Scientific Reports, 2015, 5, 10001.	3.3	44
151	Changes of nutrients and potentially toxic elements during hydrothermal carbonization of pig manure. Chemosphere, 2020, 243, 125331.	8.2	44
152	Urea formaldehyde modified alginate beads with improved stability and enhanced removal of Pb2+, Cd2+, and Cu2+. Journal of Hazardous Materials, 2020, 396, 122664.	12.4	44
153	Co-benefits of biochar-supported nanoscale zero-valent iron in simultaneously stabilizing soil heavy metals and reducing their bioaccessibility. Journal of Hazardous Materials, 2021, 418, 126292.	12.4	44
154	Particulate plastics-plant interaction in soil and its implications: A review. Science of the Total Environment, 2021, 792, 148337.	8.0	44
155	Linking soil carbon availability, microbial community composition and enzyme activities to organic carbon mineralization of a bamboo forest soil amended with pyrogenic and fresh organic matter. Science of the Total Environment, 2021, 801, 149717.	8.0	44
156	Sorption of lead in soil amended with coconut fiber biochar: Geochemical and spectroscopic investigations. Geoderma, 2019, 350, 52-60.	5.1	43
157	Characteristics of organo-mineral complexes in contaminated soils with long-term biochar application. Journal of Hazardous Materials, 2020, 384, 121265.	12.4	43
158	Mobilization of contaminants: Potential for soil remediation and unintended consequences. Science of the Total Environment, 2022, 839, 156373.	8.0	43
159	The ratio of H/C is a useful parameter to predict adsorption of the herbicide metolachlor to biochars. Environmental Research, 2020, 184, 109324.	7.5	42
160	A Critical Review of Methods for Analyzing Freshwater Eutrophication. Water (Switzerland), 2021, 13, 225.	2.7	42
161	Effect of CO2 Elevation on Root Growth and Its Relationship with Indole Acetic Acid and Ethylene in Tomato Seedlings. Pedosphere, 2009, 19, 570-576.	4.0	41
162	Seasonal variations of nitrogen and phosphorus retention in an agricultural drainage river in East China. Environmental Science and Pollution Research, 2010, 17, 312-320.	5.3	41

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163	Retention and release of diethyl phthalate in biochar-amended vegetable garden soils. Journal of Soils and Sediments, 2014, 14, 1790-1799.	3.0	41
164	Effect of biofertilizer and wheat straw biochar application on nitrous oxide emission and ammonia volatilization from paddy soil. Environmental Pollution, 2021, 275, 116640.	7.5	40
165	Environmental implications, potential value, and future of food-waste anaerobic digestate management: A review. Journal of Environmental Management, 2022, 318, 115519.	7.8	40
166	Visualizing the development trend and research frontiers of biochar in 2020: a scientometric perspective. Biochar, 2021, 3, 419-436.	12.6	39
167	Application of municipal and industrial residuals in New Zealand forests: an overview. Soil Research, 2003, 41, 557.	1.1	38
168	Biosolidsâ€Derived Nitrogen Mineralization and Transformation in Forest Soils. Journal of Environmental Quality, 2003, 32, 1851-1856.	2.0	38
169	Floating duckweed mitigated ammonia volatilization and increased grain yield and nitrogen use efficiency of rice in biochar amended paddy soils. Chemosphere, 2019, 237, 124532.	8.2	38
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