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	The role of various ameliorants on geochemical arsenic distribution and CO2-carbon efflux under paddy soil conditions. Environmental Geochemistry and Health, 2023, 45, 507-523.	3.4	12
2	Multifunctional applications of biochar beyond carbon storage. International Materials Reviews, 2022, 67, 150-200.	19.3	245
3	Biostimulants decreased nitrogen leaching and NH3 volatilization but increased N2O emission from plastic-shed greenhouse vegetable soil. Environmental Science and Pollution Research, 2022, 29, 6093-6102.	5.3	4
4	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
5	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. Journal of Hazardous Materials, 2022, 421, 126647.	12.4	32
6	Co-pyrolysis route of chlorella sp. and bauxite tailings to fabricate metal-biochar as persulfate activator. Chemical Engineering Journal, 2022, 428, 132578.	12.7	29
7	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
8	Antimony contamination and its risk management in complex environmental settings: A review. Environment International, 2022, 158, 106908.	10.0	125
9	The effect of solvents polarity and extraction conditions on the microalgal lipids yield, fatty acids profile, and biodiesel properties. Bioresource Technology, 2022, 344, 126303.	9.6	18
10	Treatment processes to eliminate potential environmental hazards and restore agronomic value of sewage sludge: A review. Environmental Pollution, 2022, 293, 118564.	7.5	63
11	Residual moisture in the sewage sludge feed significantly affects the pyrolysis process: Simulation of continuous process in a batch reactor. Journal of Analytical and Applied Pyrolysis, 2022, 161, 105387.	5.5	3
12	Conductive materials supplement alters digestate dewaterability during anaerobic co-digestion of food waste and sewage sludge and promotes follow-up indigenous peroxides activation. Chemical Engineering Journal, 2022, 431, 133875.	12.7	13
13	Technical solutions for minimizing wheat grain cadmium: A field study in North China. Science of the Total Environment, 2022, 818, 151791.	8.0	6
14	Insights into the mechanism of low-temperature H2S oxidation over Znâ€“Cu/Al2O3 catalyst. Chemosphere, 2022, 291, 133105.	8.2	11
15	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
16	Nanobiochar-rhizosphere interactions: Implications for the remediation of heavy-metal contaminated soils. Environmental Pollution, 2022, 299, 118810.	7.5	38
17	Accumulation and partitioning of toxic trace metal(loid)s in phytoliths of wheat grown in a multi-element contaminated soil. Environmental Pollution, 2022, 294, 118645.	7.5	10
18	Effect of fulvic acid co-precipitation on biosynthesis of Fe(III) hydroxysulfate and its adsorption of lead. Environmental Pollution, 2022, 295, 118669.	7.5	15

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19	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
20	Aging features of metal(loid)s in biochar-amended soil: Effects of biochar type and aging method. Science of the Total Environment, 2022, 815, 152922.	8.0	31
21	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
22	High potential of stable carbon sequestration in phytoliths of China's grasslands. Global Change Biology, 2022, 28, 2736-2750.	9.5	23
23	Biochar and soil properties limit the phytoavailability of lead and cadmium by Brassica chinensis L. in contaminated soils. Biochar, 2022, 4, 1.	12.6	21
24	Revamping highly weathered soils in the tropics with biochar application: What we know and what is needed. Science of the Total Environment, 2022, 822, 153461.	8.0	22
25	Interactions between lead(II) ions and dissolved organic matter derived from organic fertilizers incubated in the field. Journal of Environmental Sciences, 2022, 121, 77-89.	6.1	5
26	Sorption of Pb(II) onto biochar is enhanced through co-sorption of dissolved organic matter. Science of the Total Environment, 2022, 825, 153686.	8.0	30
27	Assessing simultaneous immobilization of lead and improvement of phosphorus availability through application of phosphorus-rich biochar in a contaminated soil: A pot experiment. Chemosphere, 2022, 296, 133891.	8.2	17
28	Synthesis of mesoporous carbon materials from renewable plant polyphenols for environmental and energy applications. New Carbon Materials, 2022, 37, 196-222.	6.1	20
29	A Single Soil Washing with Humic Substance Can Achieve the Risk-Based Remedial Target for Nickel Contaminated Soil. Bulletin of Environmental Contamination and Toxicology, 2022, 109, 623-629.	2.7	3
30	Comparative study on the characteristics and environmental risk of potentially toxic elements in biochar obtained via pyrolysis of swine manure at lab and pilot scales. Science of the Total Environment, 2022, 825, 153941.	8.0	10
31	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
32	The significance of eighteen rice genotypes on arsenic accumulation, physiological response and potential health risk. Science of the Total Environment, 2022, 832, 155004.	8.0	15
33	Spectroscopic investigations and density functional theory calculations reveal differences in retention mechanisms of lead and copper on chemically-modified phytolith-rich biochars. Chemosphere, 2022, 301, 134590.	8.2	6
34	Formation and transformation of reactive species in the Fe2+/peroxydisulfate/Clâ˜ system. Journal of Environmental Management, 2022, 316, 115219.	7.8	6
35	Functionalized biochars for the (im) mobilization of potentially toxic elements in paddy soils under dynamic redox conditions: a case study. , 2022, , 155-164.		0
36	The impact of biochar on nutrient supplies in agricultural ecosystems. , 2022, , 193-201.		1

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37	Responses of rice (Oryza sativa L.) plant growth, grain yield and quality, and soil properties to the microplastic occurrence in paddy soil. Journal of Soils and Sediments, 2022, 22, 2174-2183.	3.0	23
38	Mobilization of contaminants: Potential for soil remediation and unintended consequences. Science of the Total Environment, 2022, 839, 156373.	8.0	43
39	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
40	Calcined Oyster Shell-Humic Complex as Soil Amendment to Remediate Cd- and As-Contaminated Soil. Agronomy, 2022, 12, 1413.	3.0	3
41	A critical review of biochar-based nitrogen fertilizers and their effects on crop production and the environment. Biochar, 2022, 4, .	12.6	46
42	Towards a better understanding of the role of Fe cycling in soil for carbon stabilization and degradation. , 2022, 1, .		51
43	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
44	Beneficial use of Fe-impregnated bentonite as a catalyst for pyrolysis of grass cut into syngas, bio-oil and biochar. Chemical Engineering Journal, 2022, 448, 137502.	12.7	34
45	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
46	Environmental implications, potential value, and future of food-waste anaerobic digestate management: A review. Journal of Environmental Management, 2022, 318, 115519.	7.8	40
47	Insights into simultaneous adsorption and oxidation of antimonite [Sb(III)] by crawfish shell-derived biochar: spectroscopic investigation and theoretical calculations. Biochar, 2022, 4, .	12.6	15
48	Biochar Modified by Nano-manganese Dioxide as Adsorbent and Oxidant for Oxytetracycline. Bulletin of Environmental Contamination and Toxicology, 2021, 107, 269-275.	2.7	12
49	Interactions between methanotrophs and ammonia oxidizers modulate the response of in situ methane emissions to simulated climate change and its legacy in an acidic soil. Science of the Total Environment, 2021, 752, 142225.	8.0	22
50	Soil type regulates carbon and nitrogen stoichiometry and mineralization following biochar or nitrogen addition. Science of the Total Environment, 2021, 753, 141645.	8.0	28
51	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
52	Effects of feedstock biopolymer compositions on the physiochemical characteristics of dissolved black carbon from lignocellulose-based biochar. Science of the Total Environment, 2021, 751, 141491.	8.0	32
53	Soil organic matter turnover depending on land use change: Coupling C/N ratios, <scp>Δ¹³C,</scp> and lignin biomarkers. Land Degradation and Development, 2021, 32, 1591-1605.	3.9	19
54	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

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55	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
56	Contrasting short-term responses of soil heterotrophic and autotrophic respiration to biochar-based and chemical fertilizers in a subtropical Moso bamboo plantation. Applied Soil Ecology, 2021, 157, 103758.	4.3	18
57	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
58	Vertical distributions of organic carbon fractions under paddy and forest soils derived from black shales: Implications for potential of long-term carbon storage. Catena, 2021, 198, 105056.	5.0	15
59	Sorption of diethyl phthalate and cadmium by pig carcass and green waste-derived biochars under single and binary systems. Environmental Research, 2021, 193, 110594.	7.5	17
60	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. Journal of Hazardous Materials, 2021, 408, 124850.	12.4	37
61	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
62	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
63	Effect of pyrolysis temperature on the bioavailability of heavy metals in rice straw-derived biochar. Environmental Science and Pollution Research, 2021, 28, 2198-2208.	5.3	28
64	The benefit of leafy vegetable as catch crop to mitigate N and P leaching losses in intensive plastic-shed production system. Journal of Soils and Sediments, 2021, 21, 2253-2261.	3.0	5
65	Rice Rhizospheric Effects on the Bioavailability of Toxic Trace Elements during Land Application of Biochar. Environmental Science & Technology, 2021, 55, 7344-7354.	10.0	22
66	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
67	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
68	Vegetation Determines Lake Sediment Carbon Accumulation during Holocene in the Forestâ€“Steppe Ecotone in Northern China. Forests, 2021, 12, 696.	2.1	6
69	Edaphic variables influence soil bacterial structure under successive fertilization of Paulownia plantation substituting native vegetation. Journal of Soils and Sediments, 2021, 21, 2922.	3.0	6
70	Biochar-based fertilizer decreased while chemical fertilizer increased soil N2O emissions in a subtropical Moso bamboo plantation. Catena, 2021, 202, 105257.	5.0	22
71	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
72	Visualizing the development trend and research frontiers of biochar in 2020: a scientometric perspective. Biochar, 2021, 3, 419-436.	12.6	39

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73	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
74	Mitigation of petroleum-hydrocarbon-contaminated hazardous soils using organic amendments: A review. Journal of Hazardous Materials, 2021, 416, 125702.	12.4	46
75	Microorganisms-carbonaceous materials immobilized complexes: Synthesis, adaptability and environmental applications. Journal of Hazardous Materials, 2021, 416, 125915.	12.4	71
76	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
77	Electrochemical sensor based on corncob biochar layer supported chitosan-MIPs for determination of dibutyl phthalate (DBP). Journal of Electroanalytical Chemistry, 2021, 897, 115549.	3.8	23
78	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
79	Investigation on g-C3N4/rGO/TiO2 nanocomposite with enhanced photocatalytic degradation performance. Journal of Physics and Chemistry of Solids, 2021, 156, 110181.	4.0	30
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	Particulate plastics-plant interaction in soil and its implications: A review. Science of the Total Environment, 2021, 792, 148337.	8.0	44
82	Spatial distribution of plant-available silicon and its controlling factors in paddy fields of China. Geoderma, 2021, 401, 115215.	5.1	16
83	Biochar protects hydrophilic dissolved organic matter against mineralization and enhances its microbial carbon use efficiency. Science of the Total Environment, 2021, 795, 148793.	8.0	14
84	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. Journal of Environmental Management, 2021, 298, 113530.	7.8	26
85	Supplying silicon alters microbial community and reduces soil cadmium bioavailability to promote health wheat growth and yield. Science of the Total Environment, 2021, 796, 148797.	8.0	35
86	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
87	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
88	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
89	A Critical Review of Methods for Analyzing Freshwater Eutrophication. Water (Switzerland), 2021, 13, 225.	2.7	42
90	MONTMORILLONITE-HYDROCHAR NANOCOMPOSITES AS EXAMPLES OF CLAYâ€“ORGANIC INTERACTIONS DELIVERING ECOSYSTEM SERVICES. Clays and Clay Minerals, 2021, 69, 406-415.	1.3	6

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91	Effects of modified biochar on As-contaminated water and soil: A recent update. Advances in Chemical Pollution, Environmental Management and Protection, 2021, 7, 107-136.	0.5	2
92	A 10-year monitoring of soil properties dynamics and soil fertility evaluation in Chinese hickory plantation regions of southeastern China. Scientific Reports, 2021, 11, 23531.	3.3	23
93	Effects of contrasting biochars on the leaching of inorganic nitrogen from soil. Journal of Soils and Sediments, 2020, 20, 3017-3026.	3.0	24
94	Efficient improvement of soil salinization through phytoremediation induced by chemical remediation in extreme arid land northwest China. International Journal of Phytoremediation, 2020, 22, 334-341.	3.1	12
95	Almond and walnut shell-derived biochars affect sorption-desorption, fractionation, and release of phosphorus in two different soils. Chemosphere, 2020, 241, 124888.	8.2	33
96	Foamed urea-formaldehyde microspheres for removal of heavy metals from aqueous solutions. Chemosphere, 2020, 241, 125004.	8.2	21
97	Characteristics of organo-mineral complexes in contaminated soils with long-term biochar application. Journal of Hazardous Materials, 2020, 384, 121265.	12.4	43
98	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
99	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
100	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
101	Nitrogen fertilizer enhances zinc and cadmium uptake by hyperaccumulator Sedum alfredii Hance. Journal of Soils and Sediments, 2020, 20, 320-329.	3.0	25
102	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
103	Low-cost field production of biochars and their properties. Environmental Geochemistry and Health, 2020, 42, 1569-1578.	3.4	30
104	Characteristics and applications of biochar for remediating Cr(VI)-contaminated soils and wastewater. Environmental Geochemistry and Health, 2020, 42, 1543-1567.	3.4	55
105	Effects of rice straw biochar on sorption and desorption of di-n-butyl phthalate in different soil particle-size fractions. Science of the Total Environment, 2020, 702, 134878.	8.0	27
106	(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
107	Changes of nutrients and potentially toxic elements during hydrothermal carbonization of pig manure. Chemosphere, 2020, 243, 125331.	8.2	44
108	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

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109	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
110	Sewage sludge-derived hydrochar that inhibits ammonia volatilization, improves soil nitrogen retention and rice nitrogen utilization. Chemosphere, 2020, 245, 125558.	8.2	51
111	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
112	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
113	Special issue on sustainable waste treatment and management. Environmental Science and Pollution Research, 2020, 27, 43425-43427.	5.3	0
114	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
115	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
116	Effects of cultivars, water regimes, and growth stages on cadmium accumulation in rice with different radial oxygen loss. Plant and Soil, 2020, 453, 529-543.	3.7	20
117	Wetting-drying cycles during a rice-wheat crop rotation rapidly (im)mobilize recalcitrant soil phosphorus. Journal of Soils and Sediments, 2020, 20, 3921-3930.	3.0	16
118	Phytolith-rich straw application and groundwater table management over 36Âyears affect the soil-plant silicon cycle of a paddy field. Plant and Soil, 2020, 454, 343-358.	3.7	34
119	Contrasting impacts of pH on the abiotic transformation of hydrochar-derived dissolved organic matter mediated by Î´-MnO2. Geoderma, 2020, 378, 114627.	5.1	23
120	Molecularly imprinted mesoporous silica embedded with perovskite CsPbBr3 quantum dots for the fluorescence sensing of 2,2-dichlorovinyl dimethyl phosphate. Sensors and Actuators B: Chemical, 2020, 325, 128751.	7.8	34
121	Variation of dissolved nutrient exports by surface runoff from sugarcane watershed is controlled by fertilizer application and ground cover. Agriculture, Ecosystems and Environment, 2020, 303, 107121.	5.3	24
122	Sorption mechanisms of lead on soil-derived black carbon formed under varying cultivation systems. Chemosphere, 2020, 261, 128220.	8.2	5
123	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
124	Long-term influence of maize stover and its derived biochar on soil structure and organo-mineral complexes in Northeast China. Environmental Science and Pollution Research, 2020, 27, 28374-28383.	5.3	9
125	Silicon Effects on Biomass Carbon and Phytolith-Occluded Carbon in Grasslands Under High-Salinity Conditions. Frontiers in Plant Science, 2020, 11, 657.	3.6	15
126	Optimizing extraction procedures for better removal of potentially toxic elements during EDTA-assisted soil washing. Journal of Soils and Sediments, 2020, 20, 3417-3426.	3.0	12

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127	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
128	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
129	Facile synthesis of polyoxometalate-modified metal organic frameworks for eliminating tetrabromobisphenol-A from water. Journal of Hazardous Materials, 2020, 399, 122946.	12.4	14
130	Valorization of plastics and paper mill sludge into carbon composite and its catalytic performance for acarbon material consisted of the multi-layerzo dye oxidation. Journal of Hazardous Materials, 2020, 398, 123173.	12.4	16
131	Prefaceâ€"Biochar and agricultural sustainability. Journal of Soils and Sediments, 2020, 20, 3015-3016.	3.0	4
132	Holocene carbon accumulation in lakes of the current east Asian monsoonal margin: Implications under a changing climate. Science of the Total Environment, 2020, 737, 139723.	8.0	7
133	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
134	Visualizing the emerging trends of biochar research and applications in 2019: a scientometric analysis and review. Biochar, 2020, 2, 135-150.	12.6	71
135	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
136	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
137	Soil parent material controls organic matter stocks and retention patterns in subtropical China. Journal of Soils and Sediments, 2020, 20, 2426-2438.	3.0	18
138	Conversion of Oyster Shell Waste to Amendment for Immobilising Cadmium and Arsenic in Agricultural Soil. Bulletin of Environmental Contamination and Toxicology, 2020, 105, 277-282.	2.7	21
139	Lead and copper-induced hormetic effect and toxicity mechanisms in lettuce (Lactuca sativa L.) grown in a contaminated soil. Science of the Total Environment, 2020, 741, 140440.	8.0	22
140	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
141	Novel ball-milled biochar-vermiculite nanocomposites effectively adsorb aqueous As(â...). Chemosphere, 2020, 260, 127566.	8.2	28
142	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
143	Conversion of biological solid waste to graphene-containing biochar for water remediation: A critical review. Chemical Engineering Journal, 2020, 390, 124611.	12.7	108
144	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

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145	Biochar effects on environmental qualities in multiple directions. Chemosphere, 2020, 250, 126306.	8.2	4
146	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
147	A review of carbon isotopes of phytoliths: implications for phytolith-occluded carbon sources. Journal of Soils and Sediments, 2020, 20, 1811-1823.	3.0	6
148	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
149	Storage of soil phytoliths and phytolith-occluded carbon along a precipitation gradient in grasslands of northern China. Geoderma, 2020, 364, 114200.	5.1	16
150	Silicon accumulation controls carbon cycle in wetlands through modifying nutrients stoichiometry and lignin synthesis of Phragmites australis. Environmental and Experimental Botany, 2020, 175, 104058.	4.2	19
151	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
152	Priming of soil organic carbon induced by sugarcane residues and its biochar control the source of nitrogen for plant uptake: A dual 13C and 15N isotope three-source-partitioning study. Soil Biology and Biochemistry, 2020, 146, 107792.	8.8	31
153	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
154	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
155	Coupled effects of biochar use and farming practice on physical properties of a salt-affected soil with wheatâ€“maize rotation. Journal of Soils and Sediments, 2020, 20, 3053-3061.	3.0	19
156	Catalytic Pyrolysis of Polystyrene over Steel Slag under CO2 Environment. Journal of Hazardous Materials, 2020, 395, 122576.	12.4	61
157	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
158	The contribution of Asian dust in the pedogenesis of ultisols in Southeastern China determined by soil grain size. Journal of Soils and Sediments, 2019, 19, 232-240.	3.0	4
159	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
160	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
161	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
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