Daniel C.W. Tsang

List of Publications by Year
in descending order

808	68,363	369 135	2332 199
papers	citations	h-index	g-index

808	808	808	35762
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. Chemosphere, 2016, 148, 276-291.	8.2	959
2	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. Environment International, 2020, 134, 105046.	10.0	701
3	Residues of veterinary antibiotics in manures from feedlot livestock in eight provinces of China. Science of the Total Environment, 2010, 408, 1069-1075.	8.0	670
4	Biochar application to low fertility soils: A review of current status, and future prospects. Geoderma, 2019, 337, 536-554.	5.1	571
5	Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. Bioresource Technology, 2017, 245, 266-273.	9.6	553
6	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. Journal of Cleaner Production, 2018, 174, 977-987.	9.3	513
7	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. Nature Reviews Earth & Environment, 2020, 1, 366-381.	29.7	493
8	Biochar technology in wastewater treatment: A critical review. Chemosphere, 2020, 252, 126539.	8.2	482
9	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
10	An overview on engineering the surface area and porosity of biochar. Science of the Total Environment, 2021, 763, 144204.	8.0	434
11	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. Science of the Total Environment, 2018, 619-620, 815-826.	8.0	429
12	Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent. Science of the Total Environment, 2018, 627, 235-244.	8.0	418
13	Comparison of rice husk- and dairy manure-derived biochars for simultaneously removing heavy metals from aqueous solutions: Role of mineral components in biochars. Chemosphere, 2013, 92, 955-961.	8.2	408
14	Conversion of biomass to hydroxymethylfurfural: A review of catalytic systems and underlying mechanisms. Bioresource Technology, 2017, 238, 716-732.	9.6	400
15	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. Bioresource Technology, 2017, 246, 254-270.	9.6	398
16	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. Environment International, 2019, 124, 521-532.	10.0	384
17	Microplastics as pollutants in agricultural soils. Environmental Pollution, 2020, 265, 114980.	7.5	359
18	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

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19	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. Chemosphere, 2017, 182, 90-105.	8.2	352
20	Production of bioplastic through food waste valorization. Environment International, 2019, 127, 625-644.	10.0	328
21	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. Water Research, 2016, 95, 103-112.	11.3	326
22	Design of graphene-coated hollow mesoporous carbon spheres as high performance electrodes for capacitive deionization. Journal of Materials Chemistry A, 2014, 2, 4739-4750.	10.3	325
23	Environmental fate, toxicity and risk management strategies of nanoplastics in the environment: Current status and future perspectives. Journal of Hazardous Materials, 2021, 401, 123415.	12.4	325
24	Metal-free carbon materials-catalyzed sulfate radical-based advanced oxidation processes: A review on heterogeneous catalysts and applications. Chemosphere, 2017, 189, 224-238.	8.2	320
25	A green biochar/iron oxide composite for methylene blue removal. Journal of Hazardous Materials, 2020, 384, 121286.	12.4	315
26	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
27	Algae as potential feedstock for the production of biofuels and value-added products: Opportunities and challenges. Science of the Total Environment, 2020, 716, 137116.	8.0	299
28	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. Bioresource Technology, 2018, 269, 465-475.	9.6	298
29	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. Bioresource Technology, 2020, 312, 123613.	9.6	293
30	Heterogeneity of biochar properties as a function of feedstock sources and production temperatures. Journal of Hazardous Materials, 2013, 256-257, 1-9.	12.4	287
31	Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. Chemical Engineering Journal, 2018, 347, 379-397.	12.7	287
32	Biorenewable hydrogen production through biomass gasification: A review and future prospects. Environmental Research, 2020, 186, 109547.	7.5	280
33	Cadmium phytoremediation potential of Brassica crop species: A review. Science of the Total Environment, 2018, 631-632, 1175-1191.	8.0	275
34	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. Environmental Science & Technology, 2020, 54, 14797-14814.	10.0	273
35	The Interfacial Behavior between Biochar and Soil Minerals and Its Effect on Biochar Stability. Environmental Science & Technology, 2016, 50, 2264-2271.	10.0	268
36	Fabrication and characterization of hydrophilic corn stalk biochar-supported nanoscale zero-valent iron composites for efficient metal removal. Bioresource Technology, 2018, 265, 490-497.	9.6	267

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37	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. Journal of Environmental Management, 2019, 237, 128-138.	7.8	266
38	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. Journal of Hazardous Materials, 2020, 383, 121240.	12.4	266
39	Arbuscular mycorrhizal fungi-induced mitigation of heavy metal phytotoxicity in metal contaminated soils: A critical review. Journal of Hazardous Materials, 2021, 402, 123919.	12.4	266
40	A critical review on sustainable biochar system through gasification: Energy and environmental applications. Bioresource Technology, 2017, 246, 242-253.	9.6	263
41	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. Environment International, 2019, 124, 320-328.	10.0	262
42	Green synthesis of gamma-valerolactone (GVL) through hydrogenation of biomass-derived levulinic acid using non-noble metal catalysts: A critical review. Chemical Engineering Journal, 2019, 372, 992-1006.	12.7	259
43	Engineered/designer biochar for the removal of phosphate in water and wastewater. Science of the Total Environment, 2018, 616-617, 1242-1260.	8.0	254
44	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. Water Research, 2021, 196, 117011.	11.3	253
45	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. Journal of Cleaner Production, 2021, 305, 127143.	9.3	252
46	Formation, characteristics, and applications of environmentally persistent free radicals in biochars: A review. Bioresource Technology, 2019, 281, 457-468.	9.6	251
47	Organic contamination and remediation in the agricultural soils of China: A critical review. Science of the Total Environment, 2018, 615, 724-740.	8.0	250
48	Environmental transformations and ecological effects of iron-based nanoparticles. Environmental Pollution, 2018, 232, 10-30.	7.5	249
49	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. Journal of Environmental Management, 2019, 241, 458-467.	7.8	249
50	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. Environment International, 2019, 126, 336-345.	10.0	249
51	Physicochemical features, metal availability and enzyme activity in heavy metal-polluted soil remediated by biochar and compost. Science of the Total Environment, 2020, 701, 134751.	8.0	249
52	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. Chemosphere, 2017, 174, 593-603.	8.2	245
53	Multifunctional applications of biochar beyond carbon storage. International Materials Reviews, 2022, 67, 150-200.	19.3	245
54	Indispensable role of biochar-inherent mineral constituents in its environmental applications: A review. Bioresource Technology, 2017, 241, 887-899.	9.6	239

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55	Lignin materials for adsorption: Current trend, perspectives and opportunities. Bioresource Technology, 2019, 272, 570-581.	9.6	236
56	Effects of Mineral Additives on Biochar Formation: Carbon Retention, Stability, and Properties. Environmental Science & Technology, 2014, 48, 11211-11217.	10.0	233
57	Waste-derived biochar for water pollution control and sustainable development. Nature Reviews Earth & Environment, 2022, 3, 444-460.	29.7	233
58	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. Chemosphere, 2017, 178, 110-118.	8.2	231
59	High-performance materials for effective sorptive removal of formaldehyde in air. Journal of Hazardous Materials, 2019, 366, 452-465.	12.4	228
60	Internal phosphorus loading from sediments causes seasonal nitrogen limitation for harmful algal blooms. Science of the Total Environment, 2018, 625, 872-884.	8.0	225
61	Sustainable food waste management towards circular bioeconomy: Policy review, limitations and opportunities. Bioresource Technology, 2020, 297, 122497.	9.6	225
62	Effective removal of Cr(<scp>vi</scp>) using Î²-cyclodextrinâ€“chitosan modified biochars with adsorption/reduction bifuctional roles. RSC Advances, 2016, 6, 94-104.	3.6	221
63	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. Journal of Hazardous Materials, 2022, 422, 126843.	12.4	220
64	Treatment of municipal solid waste incineration fly ash: State-of-the-art technologies and future perspectives. Journal of Hazardous Materials, 2021, 411, 125132.	12.4	219
65	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. Chemical Engineering Journal, 2019, 375, 121983.	12.7	218
66	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. Journal of Hazardous Materials, 2019, 365, 665-673.	12.4	216
67	Effect of production temperature on lead removal mechanisms by rice straw biochars. Science of the Total Environment, 2019, 655, 751-758.	8.0	214
68	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. Environment International, 2018, 119, 1-19.	10.0	212
69	Biochar-based adsorbents for carbon dioxide capture: A critical review. Renewable and Sustainable Energy Reviews, 2020, 119, 109582.	16.4	212
70	Microplastics in the soil-groundwater environment: Aging, migration, and co-transport of contaminants â€“ A critical review. Journal of Hazardous Materials, 2021, 419, 126455.	12.4	212
71	Biochar-induced changes in soil properties affected immobilization/mobilization of metals/metalloids in contaminated soils. Journal of Soils and Sediments, 2017, 17, 717-730.	3.0	211
72	Activation of peroxymonosulfate (PMS) by spinel ferrite and their composites in degradation of organic pollutants: A Review. Chemical Engineering Journal, 2021, 414, 128800.	12.7	211

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73	Hydrothermal liquefaction of agricultural and forestry wastes: state-of-the-art review and future prospects. Bioresource Technology, 2017, 245, 1184-1193.	9.6	209
74	Polycyclic aromatic hydrocarbons in soils from urban to rural areas in Nanjing: Concentration, source, spatial distribution, and potential human health risk. Science of the Total Environment, 2015, 527-528, 375-383.	8.0	208
75	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. Geoderma, 2018, 332, 100-108.	5.1	206
76	A review on biochar modulated soil condition improvements and nutrient dynamics concerning crop yields: Pathways to climate change mitigation and global food security. Chemosphere, 2019, 227, 345-365.	8.2	204
77	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
78	Antimony contamination, consequences and removal techniques: A review. Ecotoxicology and Environmental Safety, 2018, 156, 125-134.	6.0	199
79	Supramolecular metal-organic frameworks that display high homogeneous and heterogeneous photocatalytic activity for H2 production. Nature Communications, 2016, 7, 11580.	12.8	198
80	Pyrolysis process of agricultural waste using CO2 for waste management, energy recovery, and biochar fabrication. Applied Energy, 2017, 185, 214-222.	10.1	198
81	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. Chemical Engineering Journal, 2017, 328, 246-273.	12.7	196
82	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. Critical Reviews in Environmental Science and Technology, 2022, 52, 675-726.	12.8	196
83	Reduction of p-nitrophenol by magnetic Co-carbon composites derived from metal organic frameworks. Chemical Engineering Journal, 2016, 298, 183-190.	12.7	194
84	Advances and future directions of biochar characterization methods and applications. Critical Reviews in Environmental Science and Technology, 2017, 47, 2275-2330.	12.8	194
85	Microwave vacuum pyrolysis of waste plastic and used cooking oil for simultaneous waste reduction and sustainable energy conversion: Recovery of cleaner liquid fuel and techno-economic analysis. Renewable and Sustainable Energy Reviews, 2019, 115, 109359.	16.4	191
86	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. Science of the Total Environment, 2018, 625, 1567-1573.	8.0	190
87	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. Environmental Science & Technology, 2020, 54, 5755-5766.	10.0	190
88	A sustainable biochar catalyst synergized with copper heteroatoms and CO₂ for singlet oxygenation and electron transfer routes. Green Chemistry, 2019, 21, 4800-4814.	9.0	188
89	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. Journal of Hazardous Materials, 2019, 374, 412-419.	12.4	188
90	Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. Science of the Total Environment, 2020, 709, 136079.	8.0	187

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91	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. Science of the Total Environment, 2020, 707, 136080.	8.0	184
92	A review of microplastics aggregation in aquatic environment: Influence factors, analytical methods, and environmental implications. Journal of Hazardous Materials, 2021, 402, 123496.	12.4	184
93	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. Bioresource Technology, 2018, 263, 385-392.	9.6	181
94	Thallium pollution in China and removal technologies for waters: A review. Environment International, 2019, 126, 771-790.	10.0	180
95	Biochar as green additives in cement-based composites with carbon dioxide curing. Journal of Cleaner Production, 2020, 258, 120678.	9.3	180
96	Potential Utility of Metalâ€“Organic Framework-Based Platform for Sensing Pesticides. ACS Applied Materials & Interfaces, 2018, 10, 8797-8817.	8.0	177
97	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. Bioresource Technology, 2019, 291, 121878.	9.6	177
98	Sustainable stabilization/solidification of municipal solid waste incinerator fly ash by incorporation of green materials. Journal of Cleaner Production, 2019, 222, 335-343.	9.3	177
99	Electrocatalytic properties of N-doped graphite felt in electro-Fenton process and degradation mechanism of levofloxacin. Chemosphere, 2017, 182, 306-315.	8.2	176
100	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). Chemical Engineering Journal, 2020, 385, 123842.	12.7	176
101	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. Renewable and Sustainable Energy Reviews, 2021, 135, 110033.	16.4	176
102	pH Dependence of Arsenic Oxidation by Rice-Husk-Derived Biochar: Roles of Redox-Active Moieties. Environmental Science & Technology, 2019, 53, 9034-9044.	10.0	175
103	Low-carbon and low-alkalinity stabilization/solidification of high-Pb contaminated soil. Chemical Engineering Journal, 2018, 351, 418-427.	12.7	174
104	Copyrolysis of Biomass with Phosphate Fertilizers To Improve Biochar Carbon Retention, Slow Nutrient Release, and Stabilize Heavy Metals in Soil. ACS Sustainable Chemistry and Engineering, 2016, 4, 1630-1636.	6.7	170
105	Treatment of arsenic in acid wastewater and river sediment by Fe@Fe2O3 nanobunches: The effect of environmental conditions and reaction mechanism. Water Research, 2017, 117, 175-186.	11.3	169
106	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
107	Fault reactivation and earthquakes with magnitudes of up to Mw4.7 induced by shale-gas hydraulic fracturing in Sichuan Basin, China. Scientific Reports, 2017, 7, 7971.	3.3	168
108	Insight into highly efficient co-removal of p-nitrophenol and lead by nitrogen-functionalized magnetic ordered mesoporous carbon: Performance and modelling. Journal of Hazardous Materials, 2017, 333, 80-87.	12.4	167

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109	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. Chemical Engineering Journal, 2021, 424, 130387.	12.7	167
110	Plenty of room for carbon on the ground: Potential applications of biochar for stormwater treatment. Science of the Total Environment, 2018, 625, 1644-1658.	8.0	165
111	Applications and factors influencing of the persulfate-based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds. Journal of Hazardous Materials, 2018, 359, 396-407.	12.4	164
112	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. Environment International, 2019, 122, 357-362.	10.0	164
113	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. Environmental Research, 2019, 171, 356-364.	7.5	163
114	Mechanistic insights into adsorption and reduction of hexavalent chromium from water using magnetic biochar composite: Key roles of Fe3O4 and persistent free radicals. Environmental Pollution, 2018, 243, 1302-1309.	7.5	162
115	The potential of green synthesized zinc oxide nanoparticles as nutrient source for plant growth. Journal of Cleaner Production, 2019, 214, 1061-1070.	9.3	161
116	Corn straw-derived biochar impregnated with Î±-FeOOH nanorods for highly effective copper removal. Chemical Engineering Journal, 2018, 348, 191-201.	12.7	160
117	Cryptic footprints of rare earth elements on natural resources and living organisms. Environment International, 2019, 127, 785-800.	10.0	159
118	Influence of lead on stabilization/solidification by ordinary Portland cement and magnesium phosphate cement. Chemosphere, 2018, 190, 90-96.	8.2	158
119	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. Chemical Engineering Journal, 2020, 401, 126136.	12.7	158
120	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. Green Chemistry, 2019, 21, 1267-1281.	9.0	157
121	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. Journal of Hazardous Materials, 2019, 365, 684-694.	12.4	156
122	Chromium(VI) Reduction Kinetics by Zero-Valent Iron in Moderately Hard Water with Humic Acid: Iron Dissolution and Humic Acid Adsorption. Environmental Science & Technology, 2008, 42, 2092-2098.	10.0	155
123	Contamination of phthalate esters, organochlorine pesticides and polybrominated diphenyl ethers in agricultural soils from the Yangtze River Delta of China. Science of the Total Environment, 2016, 544, 670-676.	8.0	155
124	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. Journal of Hazardous Materials, 2021, 414, 125378.	12.4	155
125	Novel synergy of Si-rich minerals and reactive MgO for stabilisation/solidification of contaminated sediment. Journal of Hazardous Materials, 2019, 365, 695-706.	12.4	151
126	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

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127	Sustainable management and recycling of food waste anaerobic digestate: A review. Bioresource Technology, 2021, 341, 125915.	9.6	150
128	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
129	Synthesis and application of iron and zinc doped biochar for removal of p-nitrophenol in wastewater and assessment of the influence of co-existed Pb(II). Applied Surface Science, 2017, 392, 391-401.	6.1	148
130	A combination of ferric nitrate/EDDS-enhanced washing and sludge-derived biochar stabilization of metal-contaminated soils. Science of the Total Environment, 2018, 616-617, 572-582.	8.0	146
131	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (Gracilaria) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 5 0 273, 251-258.	9.6	146
132	Transformation of Tetracycline Antibiotics and Fe(II) and Fe(III) Species Induced by Their Complexation. Environmental Science & Technology, 2016, 50, 145-153.	10.0	145
133	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. Environmental Pollution, 2019, 247, 410-420.	7.5	145
134	Bacterial polyhydroxyalkanoates: Opportunities, challenges, and prospects. Journal of Cleaner Production, 2020, 263, 121500.	9.3	145
135	The roles of biochar as green admixture for sediment-based construction products. Cement and Concrete Composites, 2019, 104, 103348.	10.7	144
136	Antibiotics in the agricultural soils from the Yangtze River Delta, China. Chemosphere, 2017, 189, 301-308.	8.2	143
137	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. Science of the Total Environment, 2019, 672, 551-562.	8.0	143
138	Highly efficient removal of thallium in wastewater by MnFe2O4-biochar composite. Journal of Hazardous Materials, 2021, 401, 123311.	12.4	142
139	Remediation of Cu, Pb, Zn and Cd-contaminated agricultural soil using a combined red mud and compost amendment. International Biodeterioration and Biodegradation, 2017, 118, 73-81.	3.9	141
140	Chemical transformation of CO2 during its capture by waste biomass derived biochars. Environmental Pollution, 2016, 213, 533-540.	7.5	140
141	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. Journal of Cleaner Production, 2019, 226, 540-549.	9.3	139
142	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. Science of the Total Environment, 2020, 698, 134112.	8.0	139
143	Sustainable soil use and management: An interdisciplinary and systematic approach. Science of the Total Environment, 2020, 729, 138961.	8.0	138
144	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. Environmental Science & Technology, 2022, 56, 4187-4198.	10.0	138

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145	Novel carbon based Fe-Co oxides derived from Prussian blue analogues activating peroxymonosulfate: Refractory drugs degradation without metal leaching. Chemical Engineering Journal, 2020, 379, 122274.	12.7	133
146	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. Bioresource Technology, 2018, 252, 76-82.	9.6	132
147	Gasification biochar from biowaste (food waste and wood waste) for effective CO2 adsorption. Journal of Hazardous Materials, 2020, 391, 121147.	12.4	132
148	Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. Journal of Molecular Liquids, 2019, 295, 111684.	4.9	131
149	Exploring the arsenic removal potential of various biosorbents from water. Environment International, 2019, 123, 567-579.	10.0	130
150	Thermally treated zeolitic imidazolate framework-8 (ZIF-8) for visible light photocatalytic degradation of gaseous formaldehyde. Chemical Science, 2020, 11, 6670-6681.	7.4	130
151	Recent advances in volatile organic compounds abatement by catalysis and catalytic hybrid processes: A critical review. Science of the Total Environment, 2020, 719, 137405.	8.0	130
152	Fabrication of engineered biochar from paper mill sludge and its application into removal of arsenic and cadmium in acidic water. Bioresource Technology, 2017, 246, 69-75.	9.6	129
153	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. Applied Biological Chemistry, 2020, 63, .	1.9	129
154	Recent advances in mechanochemical production of chemicals and carbon materials from sustainable biomass resources. Renewable and Sustainable Energy Reviews, 2020, 130, 109944.	16.4	128
155	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
156	Contrasting impacts of pre- and post-application aging of biochar on the immobilization of Cd in contaminated soils. Environmental Pollution, 2018, 242, 1362-1370.	7.5	127
157	A sustainable ferromanganese biochar adsorbent for effective levofloxacin removal from aqueous medium. Chemosphere, 2019, 237, 124464.	8.2	127
158	Effects of calcium carbonate on pyrolysis of sewage sludge. Energy, 2018, 153, 726-731.	8.8	126
159	Physicochemical property and colloidal stability of micron- and nano-particle biochar derived from a variety of feedstock sources. Science of the Total Environment, 2019, 661, 685-695.	8.0	126
160	Comparison of sewage sludge- and pig manure-derived biochars for hydrogen sulfide removal. Chemosphere, 2014, 111, 296-303.	8.2	123
161	Roles of Phosphoric Acid in Biochar Formation: Synchronously Improving Carbon Retention and Sorption Capacity. Journal of Environmental Quality, 2017, 46, 393-401.	2.0	123
162	Effect of amorphous silica and silica sand on removal of chromium(VI) by zero-valent iron. Chemosphere, 2007, 66, 858-865.	8.2	122

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163	Thallium contamination in farmlands and common vegetables in a pyrite mining city and potential health risks. Environmental Pollution, 2019, 248, 906-915.	7.5	122
164	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. Bioresource Technology, 2017, 237, 222-230.	9.6	121
165	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
166	Mechanisms of Pb and/or Zn adsorption by different biochars: Biochar characteristics, stability, and binding energies. Science of the Total Environment, 2020, 717, 136894.	8.0	121
167	Critical impacts of pyrolysis conditions and activation methods on application-oriented production of wood waste-derived biochar. Bioresource Technology, 2021, 341, 125811.	9.6	121
168	Effects of external additives: Biochar, bentonite, phosphate, on co-composting for swine manure and corn straw. Chemosphere, 2020, 248, 125927.	8.2	120
169	Biochar-based functional materials in the purification of agricultural wastewater: Fabrication, application and future research needs. Chemosphere, 2018, 197, 165-180.	8.2	119
170	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
171	Optimizing the synthesis of Fe/Al (Hydr)oxides-Biochars to maximize phosphate removal via response surface model. Journal of Cleaner Production, 2019, 237, 117770.	9.3	119
172	Rapid and effective removal of uranium (VI) from aqueous solution by facile synthesized hierarchical hollow hydroxyapatite microspheres. Journal of Hazardous Materials, 2019, 371, 397-405.	12.4	119
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