Yong Sik Ok

List of Publications by Year
in descending order

743 papers	73,935 citations	299 139 h-index	1190 228 g-index
765 all docs	765 docs citations	765 times ranked	38336 citing authors

#	Article	IF	Citations
1	Biochar as a sorbent for contaminant management in soil and water: A review. Chemosphere, 2014, 99, 19-33.	8.2	3,175
2	Organic and inorganic contaminants removal from water with biochar, a renewable, low cost and sustainable adsorbent â€“ A critical review. Bioresource Technology, 2014, 160, 191-202.	9.6	1,736
3	Occurrences and removal of pharmaceuticals and personal care products (PPCPs) in drinking water and water/sewage treatment plants: A review. Science of the Total Environment, 2017, 596-597, 303-320.	8.0	1,131
4	Effects of pyrolysis temperature on soybean stover- and peanut shell-derived biochar properties and TCE adsorption in water. Bioresource Technology, 2012, 118, 536-544.	9.6	988
5	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
6	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. Critical Reviews in Environmental Science and Technology, 2016, 46, 406-433.	12.8	945
7	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
8	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. Environment International, 2020, 134, 105046.	10.0	701
9	Review on nano zerovalent iron (nZVI): From synthesis to environmental applications. Chemical Engineering Journal, 2016, 287, 618-632.	12.7	699
10	Trace elements in the soil-plant interface: Phytoavailability, translocation, and phytoremediationâ€“A review. Earth-Science Reviews, 2017, 171, 621-645.	9.1	588
11	Biochar application to low fertility soils: A review of current status, and future prospects. Geoderma, 2019, 337, 536-554.	5.1	571
12	Cadmium stress in rice: toxic effects, tolerance mechanisms, and management: a critical review. Environmental Science and Pollution Research, 2016, 23, 17859-17879.	5.3	529
13	Competitive adsorption of heavy metals onto sesame straw biochar in aqueous solutions. Chemosphere, 2016, 142, 77-83.	8.2	516
14	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. Nature Reviews Earth & Environment, 2020, 1, 366-381.	29.7	493
15	Biochar technology in wastewater treatment: A critical review. Chemosphere, 2020, 252, 126539.	8.2	482
16	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
17	Cadmium minimization in wheat: A critical review. Ecotoxicology and Environmental Safety, 2016, 130, 43-53.	6.0	436
18	Response of microbial communities to biochar-amended soils: a critical review. Biochar, 2019, 1, 3-22.	12.6	419

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19	Effect of metal and metal oxide nanoparticles on growth and physiology of globally important food crops: A critical review. Journal of Hazardous Materials, 2017, 322, 2-16.	12.4	408
20	Minireview of potential applications of hydrochar derived from hydrothermal carbonization of biomass. Journal of Industrial and Engineering Chemistry, 2018, 57, 15-21.	5.8	405
21	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. Bioresource Technology, 2017, 246, 254-270.	9.6	398
22	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
23	Mechanisms of biochar-mediated alleviation of toxicity of trace elements in plants: a critical review. Environmental Science and Pollution Research, 2016, 23, 2230-2248.	5.3	366
24	Effect of biochar on cadmium bioavailability and uptake in wheat (Triticum aestivum L.) grown in a soil with aged contamination. Ecotoxicology and Environmental Safety, 2017, 140, 37-47.	6.0	360
25	Microplastics as pollutants in agricultural soils. Environmental Pollution, 2020, 265, 114980.	7.5	359
26	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
27	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. Chemosphere, 2017, 182, 90-105.	8.2	352
28	Biochar soil amendment on alleviation of drought and salt stress in plants: a critical review. Environmental Science and Pollution Research, 2017, 24, 12700-12712.	5.3	352
29	Occurrence and Environmental Fate of Veterinary Antibiotics in the Terrestrial Environment. Water, Air, and Soil Pollution, 2011, 214, 163-174.	2.4	343
30	Particulate plastics as a vector for toxic trace-element uptake by aquatic and terrestrial organisms and human health risk. Environment International, 2019, 131, 104937.	10.0	337
31	Nanoarchitectured Structure and Surface Biofunctionality of Mesoporous Silica Nanoparticles. Advanced Materials, 2020, 32, e1907035.	21.0	336
32	Biochar for crop production: potential benefits and risks. Journal of Soils and Sediments, 2017, 17, 685-716.	3.0	331
33	Production of bioplastic through food waste valorization. Environment International, 2019, 127, 625-644.	10.0	328
34	Applications of biochar in redox-mediated reactions. Bioresource Technology, 2017, 246, 271-281.	9.6	322
35	Trichloroethylene adsorption by pine needle biochars produced at various pyrolysis temperatures. Bioresource Technology, 2013, 143, 615-622.	9.6	319
36	A green biochar/iron oxide composite for methylene blue removal. Journal of Hazardous Materials, 2020, 384, 121286.	12.4	315

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37	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. Journal of Hazardous Materials, 2019, 373, 820-834.	12.4	307
38	Technologies and perspectives for achieving carbon neutrality. Innovation(China), 2021, 2, 100180.	9.1	306
39	Enhanced sulfamethazine removal by steam-activated invasive plant-derived biochar. Journal of Hazardous Materials, 2015, 290, 43-50.	12.4	299
40	Integrated adsorption and photocatalytic degradation of volatile organic compounds (VOCs) using carbon-based nanocomposites: A critical review. Chemosphere, 2019, 218, 845-859.	8.2	299
41	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
42	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
43	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
44	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. Bioresource Technology, 2020, 312, 123613.	9.6	293
45	Interaction of arsenic with biochar in soil and water: A critical review. Carbon, 2017, 113, 219-230.	10.3	292
46	How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar. GCB Bioenergy, 2021, 13, 1731-1764.	5.6	286
47	Biochar for composting improvement and contaminants reduction. A review. Bioresource Technology, 2017, 246, 193-202.	9.6	282
48	A critical prospective analysis of the potential toxicity of trace element regulation limits in soils worldwide: Are they protective concerning health risk assessment? - A review. Environment International, 2019, 127, 819-847.	10.0	280
49	Biorenewable hydrogen production through biomass gasification: A review and future prospects. Environmental Research, 2020, 186, 109547.	7.5	280
50	Cellular Mechanisms in Higher Plants Governing Tolerance to Cadmium Toxicity. Critical Reviews in Plant Sciences, 2014, 33, 374-391.	5.7	279
51	Pyrolysis condition affected sulfamethazine sorption by tea waste biochars. Bioresource Technology, 2014, 166, 303-308.	9.6	279
52	Mercury speciation, transformation, and transportation in soils, atmospheric flux, and implications for risk management: A critical review. Environment International, 2019, 126, 747-761.	10.0	278
53	Effects of soil dilution and amendments (mussel shell, cow bone, and biochar) on Pb availability and phytotoxicity in military shooting range soil. Ecotoxicology and Environmental Safety, 2012, 79, 225-231.	6.0	276
54	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. Environment International, 2021, 149, 106367.	10.0	276

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55	Cadmium phytoremediation potential of Brassica crop species: A review. Science of the Total Environment, 2018, 631-632, 1175-1191.	8.0	275
56	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. Environmental Science & Technology, 2020, 54, 14797-14814.	10.0	273
57	Biochar-based engineered composites for sorptive decontamination of water: A review. Chemical Engineering Journal, 2019, 372, 536-550.	12.7	264
58	A critical review on sustainable biochar system through gasification: Energy and environmental applications. Bioresource Technology, 2017, 246, 242-253.	9.6	263
59	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
60	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
61	Progress on the lignocellulosic biomass pyrolysis for biofuel production toward environmental sustainability. Fuel Processing Technology, 2021, 223, 106997.	7.2	256
62	Persistent free radicals in carbon-based materials on transformation of refractory organic contaminants (ROCs) in water: A critical review. Water Research, 2018, 137, 130-143.	11.3	255
63	Impact of sugarcane bagasse-derived biochar on heavy metal availability and microbial activity: A field study. Chemosphere, 2018, 200, 274-282.	8.2	254
64	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
65	Alginate-based composites for environmental applications: a critical review. Critical Reviews in Environmental Science and Technology, 2019, 49, 318-356.	12.8	253
66	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
67	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. Environment International, 2019, 126, 336-345.	10.0	249
68	Evaluating biochar and its modifications for the removal of ammonium, nitrate, and phosphate in water. Water Research, 2020, 186, 116303.	11.3	248
69	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
70	Multifunctional applications of biochar beyond carbon storage. International Materials Reviews, 2022, 67, 150-200.	19.3	245
71	Designer carbon nanotubes for contaminant removal in water and wastewater: A critical review. Science of the Total Environment, 2018, 612, 561-581.	8.0	237
72	Recent advances in photodegradation of antibiotic residues in water. Chemical Engineering Journal, 2021, 405, 126806.	12.7	234

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73	Waste-derived biochar for water pollution control and sustainable development. Nature Reviews Earth & Environment, 2022, 3, 444-460.	29.7	233
74	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
75	Speciation and phytoavailability of lead and antimony in a small arms range soil amended with mussel shell, cow bone and biochar: EXAFS spectroscopy and chemical extractions. Chemosphere, 2014, 95, 433-441.	8.2	230
76	Biochar production from date palm waste: Charring temperature induced changes in composition and surface chemistry. Journal of Analytical and Applied Pyrolysis, 2015, 115, 392-400.	5.5	230
77	A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels. Energy Conversion and Management, 2020, 212, 112792.	9.2	230
78	Remediation of mercury contaminated soil, water, and air: A review of emerging materials and innovative technologies. Environment International, 2020, 134, 105281.	10.0	228
79	Biochar-induced concomitant decrease in ammonia volatilization and increase in nitrogen use efficiency by wheat. Chemosphere, 2016, 142, 120-127.	8.2	224
80	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
81	Soil organic carbon dynamics: Impact of land use changes and management practices: A review. Advances in Agronomy, 2019, , 1-107.	5.2	216
82	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. Journal of Hazardous Materials, 2019, 365, 665-673.	12.4	216
83	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. Environment International, 2018, 119, 1-19.	10.0	212
84	Biochar-based adsorbents for carbon dioxide capture: A critical review. Renewable and Sustainable Energy Reviews, 2020, 119, 109582.	16.4	212
85	Engineered biochar â€“ A sustainable solution for the removal of antibiotics from water. Chemical Engineering Journal, 2021, 405, 126926.	12.7	212
86	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
87	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. Journal of Cleaner Production, 2020, 270, 122462.	9.3	207
88	SMART biochar technologyâ€”A shifting paradigm towards advanced materials and healthcare research. Environmental Technology and Innovation, 2015, 4, 206-209.	6.1	206
89	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
90	Biochar affects the dissolved and colloidal concentrations of Cd, Cu, Ni, and Zn and their phytoavailability and potential mobility in a mining soil under dynamic redox-conditions. Science of the Total Environment, 2018, 624, 1059-1071.	8.0	201

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91	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
92	Effect of biochar on heavy metal immobilization and uptake by lettuce (Lactuca sativa L.) in agricultural soil. Environmental Earth Sciences, 2015, 74, 1249-1259.	2.7	199
93	Pyrolysis process of agricultural waste using CO2 for waste management, energy recovery, and biochar fabrication. Applied Energy, 2017, 185, 214-222.	10.1	198
94	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
95	Advances and future directions of biochar characterization methods and applications. Critical Reviews in Environmental Science and Technology, 2017, 47, 2275-2330.	12.8	194
96	Biochar enhances the cadmium tolerance in spinach (Spinacia oleracea) through modification of Cd uptake and physiological and biochemical attributes. Environmental Science and Pollution Research, 2016, 23, 21385-21394.	5.3	192
97	Effects of rapeseed residue on lead and cadmium availability and uptake by rice plants in heavy metal contaminated paddy soil. Chemosphere, 2011, 85, 677-682.	8.2	191
98	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
99	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
100	Sustainable in situ remediation of recalcitrant organic pollutants in groundwater with controlled release materials: A review. Journal of Controlled Release, 2018, 283, 200-213.	9.9	189
101	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
102	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
103	Impact of biochar properties on soil conditions and agricultural sustainability: A review. Land Degradation and Development, 2018, 29, 2124-2161.	3.9	184
104	Impacts of biochar application on upland agriculture: A review. Journal of Environmental Management, 2019, 234, 52-64.	7.8	184
105	Effect of biochar on alleviation of cadmium toxicity in wheat (Triticum aestivum L.) grown on Cd-contaminated saline soil. Environmental Science and Pollution Research, 2018, 25, 25668-25680.	5.3	180
106	Biochar as green additives in cement-based composites with carbon dioxide curing. Journal of Cleaner Production, 2020, 258, 120678.	9.3	180
107	Effects of natural and calcined oyster shells on Cd and Pb immobilization in contaminated soils. Environmental Earth Sciences, 2010, 61, 1301-1308.	2.7	178
108	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (Zea mays L.) in relation to plant growth, photosynthesis and metal uptake. Ecotoxicology and Environmental Safety, 2016, 133, 218-225.	6.0	178

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109	Lead and copper immobilization in a shooting range soil using soybean stover- and pine needle-derived biochars: Chemical, microbial and spectroscopic assessments. Journal of Hazardous Materials, 2016, 301, 179-186.	12.4	178
110	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. Bioresource Technology, 2019, 291, 121878.	9.6	177
111	The application of machine learning methods for prediction of metal sorption onto biochars. Journal of Hazardous Materials, 2019, 378, 120727.	12.4	177
112	Heavy metal adsorption by a formulated zeolite-Portland cement mixture. Journal of Hazardous Materials, 2007, 147, 91-96.	12.4	176
113	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
114	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
115	Effect of biochar on reclaimed tidal land soil properties and maize (Zea mays L.) response. Chemosphere, 2016, 142, 153-159.	8.2	173
116	Kinetics, thermodynamics and mechanistic studies of carbofuran removal using biochars from tea waste and rice husks. Chemosphere, 2016, 150, 781-789.	8.2	169
117	Copper and zinc adsorption by softwood and hardwood biochars under elevated sulphate-induced salinity and acidic pH conditions. Chemosphere, 2016, 142, 64-71.	8.2	169
118	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
119	Eggshell and coral wastes as low cost sorbents for the removal of Pb2+, Cd2+ and Cu2+ from aqueous solutions. Journal of Industrial and Engineering Chemistry, 2012, 18, 198-204.	5.8	167
120	Recent progress in the development of biomass-derived nitrogen-doped porous carbon. Journal of Materials Chemistry A, 2021, 9, 3703-3728.	10.3	167
121	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
122	Clay-biochar composites for sorptive removal of tetracycline antibiotic in aqueous media. Journal of Environmental Management, 2019, 238, 315-322.	7.8	164
123	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
124	Soil biota, antimicrobial resistance and planetary health. Environment International, 2019, 131, 105059.	10.0	163
125	Remediation of arsenic-contaminated water using agricultural wastes as biosorbents. Critical Reviews in Environmental Science and Technology, 2016, 46, 467-499.	12.8	161
126	Lead-based paint remains a major public health concern: A critical review of global production, trade, use, exposure, health risk, and implications. Environment International, 2018, 121, 85-101.	10.0	160

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127	Veterinary antibiotics contamination in water, sediment, and soil near a swine manure composting facility. Environmental Earth Sciences, 2014, 71, 1433-1440.	2.7	159
128	Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. Chemosphere, 2016, 144, 2516-2521.	8.2	158
129	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. Chemical Engineering Journal, 2020, 401, 126136.	12.7	158
130	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. Green Chemistry, 2019, 21, 1267-1281.	9.0	157
131	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
132	Photo-aging of polyvinyl chloride microplastic in the presence of natural organic acids. Water Research, 2020, 183, 116082.	11.3	156
133	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
134	Immobilization of lead in a Korean military shooting range soil using eggshell waste: An integrated mechanistic approach. Journal of Hazardous Materials, 2012, 209-210, 392-401.	12.4	149
135	Distribution and Accumulative Pattern of Tetracyclines and Sulfonamides in Edible Vegetables of Cucumber, Tomato, and Lettuce. Journal of Agricultural and Food Chemistry, 2015, 63, 398-405.	5.2	149
136	Heavy metal-induced oxidative stress on seed germination and seedling development: a critical review. Environmental Geochemistry and Health, 2019, 41, 1813-1831.	3.4	149
137	Current status of biogas upgrading for direct biomethane use: A review. Renewable and Sustainable Energy Reviews, 2021, 149, 111343.	16.4	149
138	Effects of polyacrylamide, biopolymer, and biochar on decomposition of soil organic matter and plant residues as determined by 14C and enzyme activities. European Journal of Soil Biology, 2012, 48, 1-10.	3.2	147
139	THE DARK SIDE OF BLACK GOLD: Ecotoxicological aspects of biochar and biochar-amended soils. Journal of Hazardous Materials, 2021, 403, 123833.	12.4	147
140	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
141	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (Gracilaria) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 273, 251-258.	9.6	146
142	Sorption and transport of sulfamethazine in agricultural soils amended with invasive-plant-derived biochar. Journal of Environmental Management, 2014, 141, 95-103.	7.8	145
143	Biochars and the plant-soil interface. Plant and Soil, 2015, 395, 1-5.	3.7	145
144	Impact of soybean stover- and pine needle-derived biochars on Pb and As mobility, microbial community, and carbon stability in a contaminated agricultural soil. Journal of Environmental Management, 2016, 166, 131-139.	7.8	144

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145	The roles of biochar as green admixture for sediment-based construction products. Cement and Concrete Composites, 2019, 104, 103348.	10.7	144
146	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. Science of the Total Environment, 2019, 672, 551-562.	8.0	143
147	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. Critical Reviews in Environmental Science and Technology, 2020, 50, 549-611.	12.8	143
148	Adsorption of Cd by peanut husks and peanut husk biochar from aqueous solutions. Ecological Engineering, 2016, 87, 240-245.	3.6	142
149	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. Science of the Total Environment, 2020, 698, 134112.	8.0	139
150	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. Environmental Science & Technology, 2022, 56, 4187-4198.	10.0	138
151	Ameliorants to immobilize Cd in rice paddy soils contaminated by abandoned metal mines in Korea. Environmental Geochemistry and Health, 2011, 33, 23-30.	3.4	137
152	Chromium(VI) sorption efficiency of acid-activated banana peel over organo-montmorillonite in aqueous solutions. International Journal of Phytoremediation, 2017, 19, 605-613.	3.1	135
153	Microbial functional diversity and carbon use feedback in soils as affected by heavy metals. Environment International, 2019, 125, 478-488.	10.0	135
154	Kinetic study on phosphate removal from aqueous solution by biochar derived from peanut shell as renewable adsorptive media. International Journal of Environmental Science and Technology, 2015, 12, 3363-3372.	3.5	133
155	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. Bioresource Technology, 2018, 252, 76-82.	9.6	132
156	Gasification biochar from biowaste (food waste and wood waste) for effective CO2 adsorption. Journal of Hazardous Materials, 2020, 391, 121147.	12.4	132
157	Clayâ€“polymer nanocomposites: Progress and challenges for use in sustainable water treatment. Journal of Hazardous Materials, 2020, 383, 121125.	12.4	132
158	Applied Machine Learning for Prediction of CO₂ Adsorption on Biomass Waste-Derived Porous Carbons. Environmental Science & Technology, 2021, 55, 11925-11936.	10.0	132
159	Antimonate and antimonite adsorption by a polyvinyl alcohol-stabilized granular adsorbent containing nanoscale zero-valent iron. Chemical Engineering Journal, 2014, 247, 250-257.	12.7	130
160	Exploring the arsenic removal potential of various biosorbents from water. Environment International, 2019, 123, 567-579.	10.0	130
161	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
162	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

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163	Biochar increased water holding capacity but accelerated organic carbon leaching from a sloping farmland soil in China. Environmental Science and Pollution Research, 2016, 23, 995-1006.	5.3	129
164	COVID-19's unsustainable waste management. Science, 2020, 368, 1438-1438.	12.6	129
165	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
166	Residual effects of monoammonium phosphate, gypsum and elemental sulfur on cadmium phytoavailability and translocation from soil to wheat in an effluent irrigated field. Chemosphere, 2017, 174, 515-523.	8.2	128
167	Stabilization of Pb and Cd contaminated soils and soil quality improvements using waste oyster shells. Environmental Geochemistry and Health, 2011, 33, 83-91.	3.4	127
168	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
169	Characterization and quantification of electron donating capacity and its structure dependence in biochar derived from three waste biomasses. Chemosphere, 2018, 211, 1073-1081.	8.2	127
170	Conocarpus Biochar Induces Changes in Soil Nutrient Availability and Tomato Growth Under Saline Irrigation. Pedosphere, 2016, 26, 27-38.	4.0	126
171	Effects of calcium carbonate on pyrolysis of sewage sludge. Energy, 2018, 153, 726-731.	8.8	126
172	A critical review of ferrate(VI)-based remediation of soil and groundwater. Environmental Research, 2018, 160, 420-448.	7.5	126
173	Biochar enhanced thermophilic anaerobic digestion of food waste: Focusing on biochar particle size, microbial community analysis and pilot-scale application. Energy Conversion and Management, 2020, 209, 112654.	9.2	125
174	Enhancement of chromate reduction in soils by surface modified biochar. Journal of Environmental Management, 2017, 186, 277-284.	7.8	124
175	Immobilization of lead in contaminated firing range soil using biochar. Environmental Science and Pollution Research, 2013, 20, 8464-8471.	5.3	122
176	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
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