

Daniel Cw Tsang

List of Publications by Year in descending order

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Version: 2024-02-01

296
papers

31,349
citations

2093

100
h-index

6282

158
g-index

296
all docs

296
docs citations

296
times ranked

18928
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. <i>Chemosphere</i> , 2016, 148, 276-291.	4.2	959
2	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. <i>Environment International</i> , 2020, 134, 105046.	4.8	701
3	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. <i>Journal of Cleaner Production</i> , 2018, 174, 977-987.	4.6	513
4	Biochar technology in wastewater treatment: A critical review. <i>Chemosphere</i> , 2020, 252, 126539.	4.2	482
5	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. <i>Science of the Total Environment</i> , 2018, 619-620, 815-826.	3.9	429
6	Conversion of biomass to hydroxymethylfurfural: A review of catalytic systems and underlying mechanisms. <i>Bioresource Technology</i> , 2017, 238, 716-732.	4.8	400
7	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. <i>Bioresource Technology</i> , 2017, 246, 254-270.	4.8	398
8	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. <i>Environment International</i> , 2019, 124, 521-532.	4.8	384
9	Microplastics as pollutants in agricultural soils. <i>Environmental Pollution</i> , 2020, 265, 114980.	3.7	359
10	Environmental fate, toxicity and risk management strategies of nanoplastics in the environment: Current status and future perspectives. <i>Journal of Hazardous Materials</i> , 2021, 401, 123415.	6.5	325
11	A green biochar/iron oxide composite for methylene blue removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121286.	6.5	315
12	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	5.2	306
13	Algae as potential feedstock for the production of biofuels and value-added products: Opportunities and challenges. <i>Science of the Total Environment</i> , 2020, 716, 137116.	3.9	299
14	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. <i>Bioresource Technology</i> , 2020, 312, 123613.	4.8	293
15	Biorenewable hydrogen production through biomass gasification: A review and future prospects. <i>Environmental Research</i> , 2020, 186, 109547.	3.7	280
16	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science & Technology</i> , 2020, 54, 14797-14814.	4.6	273
17	Fabrication and characterization of hydrophilic corn stalk biochar-supported nanoscale zero-valent iron composites for efficient metal removal. <i>Bioresource Technology</i> , 2018, 265, 490-497.	4.8	267
18	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. <i>Journal of Hazardous Materials</i> , 2020, 383, 121240.	6.5	266

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19	A critical review on sustainable biochar system through gasification: Energy and environmental applications. <i>Bioresource Technology</i> , 2017, 246, 242-253.	4.8	263
20	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. <i>Environment International</i> , 2019, 124, 320-328.	4.8	262
21	Engineered/designer biochar for the removal of phosphate in water and wastewater. <i>Science of the Total Environment</i> , 2018, 616-617, 1242-1260.	3.9	254
22	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. <i>Water Research</i> , 2021, 196, 117011.	5.3	253
23	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. <i>Journal of Cleaner Production</i> , 2021, 305, 127143.	4.6	252
24	Formation, characteristics, and applications of environmentally persistent free radicals in biochars: A review. <i>Bioresource Technology</i> , 2019, 281, 457-468.	4.8	251
25	Organic contamination and remediation in the agricultural soils of China: A critical review. <i>Science of the Total Environment</i> , 2018, 615, 724-740.	3.9	250
26	Environmental transformations and ecological effects of iron-based nanoparticles. <i>Environmental Pollution</i> , 2018, 232, 10-30.	3.7	249
27	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. <i>Journal of Environmental Management</i> , 2019, 241, 458-467.	3.8	249
28	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. <i>Environment International</i> , 2019, 126, 336-345.	4.8	249
29	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. <i>Chemosphere</i> , 2017, 174, 593-603.	4.2	245
30	Lignin materials for adsorption: Current trend, perspectives and opportunities. <i>Bioresource Technology</i> , 2019, 272, 570-581.	4.8	236
31	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. <i>Chemosphere</i> , 2017, 178, 110-118.	4.2	231
32	High-performance materials for effective sorptive removal of formaldehyde in air. <i>Journal of Hazardous Materials</i> , 2019, 366, 452-465.	6.5	228
33	Internal phosphorus loading from sediments causes seasonal nitrogen limitation for harmful algal blooms. <i>Science of the Total Environment</i> , 2018, 625, 872-884.	3.9	225
34	Treatment of municipal solid waste incineration fly ash: State-of-the-art technologies and future perspectives. <i>Journal of Hazardous Materials</i> , 2021, 411, 125132.	6.5	219
35	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. <i>Chemical Engineering Journal</i> , 2019, 375, 121983.	6.6	218
36	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. <i>Journal of Hazardous Materials</i> , 2019, 365, 665-673.	6.5	216

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37	Effect of production temperature on lead removal mechanisms by rice straw biochars. <i>Science of the Total Environment</i> , 2019, 655, 751-758.	3.9	214
38	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. <i>Environment International</i> , 2018, 119, 1-19.	4.8	212
39	Biochar-based adsorbents for carbon dioxide capture: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 119, 109582.	8.2	212
40	Hydrothermal liquefaction of agricultural and forestry wastes: state-of-the-art review and future prospects. <i>Bioresource Technology</i> , 2017, 245, 1184-1193.	4.8	209
41	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. <i>Geoderma</i> , 2018, 332, 100-108.	2.3	206
42	A review on biochar modulated soil condition improvements and nutrient dynamics concerning crop yields: Pathways to climate change mitigation and global food security. <i>Chemosphere</i> , 2019, 227, 345-365.	4.2	204
43	Pyrolysis process of agricultural waste using CO ₂ for waste management, energy recovery, and biochar fabrication. <i>Applied Energy</i> , 2017, 185, 214-222.	5.1	198
44	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. <i>Chemical Engineering Journal</i> , 2017, 328, 246-273.	6.6	196
45	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. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 115, 109359.	8.2	191
46	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. <i>Science of the Total Environment</i> , 2018, 625, 1567-1573.	3.9	190
47	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. <i>Journal of Hazardous Materials</i> , 2019, 374, 412-419.	6.5	188
48	Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. <i>Science of the Total Environment</i> , 2020, 709, 136079.	3.9	187
49	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. <i>Science of the Total Environment</i> , 2020, 707, 136080.	3.9	184
50	Thallium pollution in China and removal technologies for waters: A review. <i>Environment International</i> , 2019, 126, 771-790.	4.8	180
51	Biochar as green additives in cement-based composites with carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2020, 258, 120678.	4.6	180
52	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. <i>Bioresource Technology</i> , 2019, 291, 121878.	4.8	177
53	Sustainable stabilization/solidification of municipal solid waste incinerator fly ash by incorporation of green materials. <i>Journal of Cleaner Production</i> , 2019, 222, 335-343.	4.6	177
54	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). <i>Chemical Engineering Journal</i> , 2020, 385, 123842.	6.6	176

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55	Low-carbon and low-alkalinity stabilization/solidification of high-Pb contaminated soil. <i>Chemical Engineering Journal</i> , 2018, 351, 418-427.	6.6	174
56	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , 2021, 424, 130387.	6.6	167
57	Plenty of room for carbon on the ground: Potential applications of biochar for stormwater treatment. <i>Science of the Total Environment</i> , 2018, 625, 1644-1658.	3.9	165
58	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. <i>Environment International</i> , 2019, 122, 357-362.	4.8	164
59	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. <i>Environmental Research</i> , 2019, 171, 356-364.	3.7	163
60	Corn straw-derived biochar impregnated with Fe^{2+} -FeOOH nanorods for highly effective copper removal. <i>Chemical Engineering Journal</i> , 2018, 348, 191-201.	6.6	160
61	Influence of lead on stabilization/solidification by ordinary Portland cement and magnesium phosphate cement. <i>Chemosphere</i> , 2018, 190, 90-96.	4.2	158
62	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020, 401, 126136.	6.6	158
63	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. <i>Journal of Hazardous Materials</i> , 2019, 365, 684-694.	6.5	156
64	Contamination of phthalate esters, organochlorine pesticides and polybrominated diphenyl ethers in agricultural soils from the Yangtze River Delta of China. <i>Science of the Total Environment</i> , 2016, 544, 670-676.	3.9	155
65	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. <i>Journal of Hazardous Materials</i> , 2021, 414, 125378.	6.5	155
66	Novel synergy of Si-rich minerals and reactive MgO for stabilisation/solidification of contaminated sediment. <i>Journal of Hazardous Materials</i> , 2019, 365, 695-706.	6.5	151
67	A combination of ferric nitrate/EDDS-enhanced washing and sludge-derived biochar stabilization of metal-contaminated soils. <i>Science of the Total Environment</i> , 2018, 616-617, 572-582.	3.9	146
68	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 227 Td (273, 251-258.	4.8	146
69	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. <i>Environmental Pollution</i> , 2019, 247, 410-420.	3.7	145
70	The roles of biochar as green admixture for sediment-based construction products. <i>Cement and Concrete Composites</i> , 2019, 104, 103348.	4.6	144
71	Antibiotics in the agricultural soils from the Yangtze River Delta, China. <i>Chemosphere</i> , 2017, 189, 301-308.	4.2	143
72	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. <i>Science of the Total Environment</i> , 2019, 672, 551-562.	3.9	143

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73	Highly efficient removal of thallium in wastewater by MnFe ₂ O ₄ -biochar composite. <i>Journal of Hazardous Materials</i> , 2021, 401, 123311.	6.5	142
74	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. <i>Journal of Cleaner Production</i> , 2019, 226, 540-549.	4.6	139
75	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , 2020, 698, 134112.	3.9	139
76	Sustainable soil use and management: An interdisciplinary and systematic approach. <i>Science of the Total Environment</i> , 2020, 729, 138961.	3.9	138
77	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. <i>Bioresource Technology</i> , 2018, 252, 76-82.	4.8	132
78	Gasification biochar from biowaste (food waste and wood waste) for effective CO ₂ adsorption. <i>Journal of Hazardous Materials</i> , 2020, 391, 121147.	6.5	132
79	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019, 123, 567-579.	4.8	130
80	Recent advances in mechanochemical production of chemicals and carbon materials from sustainable biomass resources. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 130, 109944.	8.2	128
81	Contrasting impacts of pre- and post-application aging of biochar on the immobilization of Cd in contaminated soils. <i>Environmental Pollution</i> , 2018, 242, 1362-1370.	3.7	127
82	Effects of calcium carbonate on pyrolysis of sewage sludge. <i>Energy</i> , 2018, 153, 726-731.	4.5	126
83	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. <i>Chemosphere</i> , 2018, 198, 450-459.	4.2	121
84	Mechanisms of Pb and/or Zn adsorption by different biochars: Biochar characteristics, stability, and binding energies. <i>Science of the Total Environment</i> , 2020, 717, 136894.	3.9	121
85	Critical impacts of pyrolysis conditions and activation methods on application-oriented production of wood waste-derived biochar. <i>Bioresource Technology</i> , 2021, 341, 125811.	4.8	121
86	Optimizing the synthesis of Fe/Al (Hydr)oxides-Biochars to maximize phosphate removal via response surface model. <i>Journal of Cleaner Production</i> , 2019, 237, 117770.	4.6	119
87	Extended theory of planned behaviour for promoting construction waste recycling in Hong Kong. <i>Waste Management</i> , 2019, 83, 161-170.	3.7	118
88	Arsenic-containing soil from geogenic source in Hong Kong: Leaching characteristics and stabilization/solidification. <i>Chemosphere</i> , 2017, 182, 31-39.	4.2	117
89	Recycling contaminated wood into eco-friendly particleboard using green cement and carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2016, 137, 861-870.	4.6	116
90	Stabilization of cationic and anionic metal species in contaminated soils using sludge-derived biochar. <i>Chemosphere</i> , 2016, 149, 263-271.	4.2	116

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91	Phosphoric acid-activated wood biochar for catalytic conversion of starch-rich food waste into glucose and 5-hydroxymethylfurfural. <i>Bioresource Technology</i> , 2018, 267, 242-248.	4.8	114
92	A critical review of risks, characteristics, and treatment strategies for potentially toxic elements in wastewater from shale gas extraction. <i>Environment International</i> , 2019, 125, 452-469.	4.8	112
93	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. <i>Environmental Science & Technology</i> , 2021, 55, 7004-7014.	4.6	112
94	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. <i>Science of the Total Environment</i> , 2018, 640-641, 704-713.	3.9	110
95	Engineering pyrolysis biochar via single-step microwave steam activation for hazardous landfill leachate treatment. <i>Journal of Hazardous Materials</i> , 2020, 390, 121649.	6.5	110
96	Green immobilization of toxic metals using alkaline enhanced rice husk biochar: Effects of pyrolysis temperature and KOH concentration. <i>Science of the Total Environment</i> , 2020, 720, 137584.	3.9	110
97	Recycling dredged sediment into fill materials, partition blocks, and paving blocks: Technical and economic assessment. <i>Journal of Cleaner Production</i> , 2018, 199, 69-76.	4.6	109
98	Accelerated carbonation of reactive MgO and Portland cement blends under flowing CO ₂ gas. <i>Cement and Concrete Composites</i> , 2020, 106, 103489.	4.6	108
99	The role of zinc in metakaolin-based geopolymers. <i>Cement and Concrete Research</i> , 2020, 136, 106194.	4.6	108
100	Surface-modified biochar in a bioretention system for <i>Escherichia coli</i> removal from stormwater. <i>Chemosphere</i> , 2017, 169, 89-98.	4.2	107
101	Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. <i>Chemosphere</i> , 2019, 235, 825-831.	4.2	107
102	Sustainable gasification biochar as a high efficiency adsorbent for CO ₂ capture: A facile method to designer biochar fabrication. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 124, 109785.	8.2	107
103	Value-added recycling of construction waste wood into noise and thermal insulating cement-bonded particleboards. <i>Construction and Building Materials</i> , 2016, 125, 316-325.	3.2	106
104	Red mud-enhanced magnesium phosphate cement for remediation of Pb and As contaminated soil. <i>Journal of Hazardous Materials</i> , 2020, 400, 123317.	6.5	106
105	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018, 187, 131-147.	4.6	105
106	Emerging risks of toxic metal(loid)s in soil-vegetables influenced by steel-making activities and isotopic source apportionment. <i>Environment International</i> , 2021, 146, 106207.	4.8	105
107	Spatial distribution, emission source and health risk of parent PAHs and derivatives in surface soils from the Yangtze River Delta, eastern China. <i>Chemosphere</i> , 2017, 178, 301-308.	4.2	104
108	Green remediation and recycling of contaminated sediment by waste-incorporated stabilization/solidification. <i>Chemosphere</i> , 2015, 122, 257-264.	4.2	102

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109	Roles of biochar in cement-based stabilization/solidification of municipal solid waste incineration fly ash. <i>Chemical Engineering Journal</i> , 2022, 430, 132972.	6.6	98
110	Green remediation of contaminated sediment by stabilization/solidification with industrial by-products and CO ₂ utilization. <i>Science of the Total Environment</i> , 2018, 631-632, 1321-1327.	3.9	97
111	Fate of arsenic before and after chemical-enhanced washing of an arsenic-containing soil in Hong Kong. <i>Science of the Total Environment</i> , 2017, 599-600, 679-688.	3.9	96
112	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. <i>Chemical Engineering Journal</i> , 2020, 398, 125505.	6.6	96
113	Selective dissolution followed by EDDS washing of an e-waste contaminated soil: Extraction efficiency, fate of residual metals, and impact on soil environment. <i>Chemosphere</i> , 2017, 166, 489-496.	4.2	94
114	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. <i>Chemosphere</i> , 2017, 176, 315-323.	4.2	93
115	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of H ₂ O ₂ and K ₂ S ₂ O ₈ in the presence of halide ions. <i>Science of the Total Environment</i> , 2019, 664, 312-321.	3.9	92
116	Enhanced adsorption of arsenic onto alum sludge modified by calcination. <i>Journal of Cleaner Production</i> , 2018, 176, 54-62.	4.6	91
117	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. <i>Environment International</i> , 2019, 133, 105247.	4.8	91
118	Carbon dioxide capture in biochar produced from pine sawdust and paper mill sludge: Effect of porous structure and surface chemistry. <i>Science of the Total Environment</i> , 2020, 739, 139845.	3.9	91
119	Interaction with low molecular weight organic acids affects the electron shuttling of biochar for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2019, 378, 120705.	6.5	90
120	Biochar influences soil carbon pools and facilitates interactions with soil: A field investigation. <i>Land Degradation and Development</i> , 2018, 29, 2162-2171.	1.8	89
121	A novel electrochemical modification combined with one-step pyrolysis for preparation of sustainable thorn-like iron-based biochar composites. <i>Bioresource Technology</i> , 2019, 274, 379-385.	4.8	89
122	Designing novel magnesium oxysulfate cement for stabilization/solidification of municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022, 423, 127025.	6.5	89
123	Green remediation of Cd and Hg contaminated soil using humic acid modified montmorillonite: Immobilization performance under accelerated ageing conditions. <i>Journal of Hazardous Materials</i> , 2020, 387, 122005.	6.5	87
124	Facile synthesis of CuBTC and its graphene oxide composites as efficient adsorbents for CO ₂ capture. <i>Chemical Engineering Journal</i> , 2020, 393, 124666.	6.6	85
125	Stabilisation/solidification of municipal solid waste incineration fly ash by phosphate-enhanced calcium aluminate cement. <i>Journal of Hazardous Materials</i> , 2021, 408, 124404.	6.5	85
126	Ciprofloxacin adsorption on graphene and granular activated carbon: kinetics, isotherms, and effects of solution chemistry. <i>Environmental Technology (United Kingdom)</i> , 2015, 36, 3094-3102.	1.2	84

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127	Speciation, mobilization, and bioaccessibility of arsenic in geogenic soil profile from Hong Kong. <i>Environmental Pollution</i> , 2018, 232, 375-384.	3.7	83
128	Novel CuCo ₂ O ₄ Composite Spinel with a Meso-Macroporous Nanosheet Structure for Sulfate Radical Formation and Benzophenone-4 Degradation: Interface Reaction, Degradation Pathway, and DFT Calculation. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 20522-20535.	4.0	83
129	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. <i>Journal of Hazardous Materials</i> , 2022, 425, 127906.	6.5	83
130	Mixture design and treatment methods for recycling contaminated sediment. <i>Journal of Hazardous Materials</i> , 2015, 283, 623-632.	6.5	82
131	Using incinerated sewage sludge ash to improve the water resistance of magnesium oxychloride cement (MOC). <i>Construction and Building Materials</i> , 2017, 147, 519-524.	3.2	82
132	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. <i>Journal of Hazardous Materials</i> , 2022, 423, 127060.	6.5	82
133	Potentially toxic elements in solid waste streams: Fate and management approaches. <i>Environmental Pollution</i> , 2019, 253, 680-707.	3.7	79
134	Mechanisms of U(VI) removal by biochar derived from <i>Ficus microcarpa</i> aerial root: A comparison between raw and modified biochar. <i>Science of the Total Environment</i> , 2019, 697, 134115.	3.9	78
135	Porous biochar composite assembled with ternary needle-like iron-manganese-sulphur hybrids for high-efficiency lead removal. <i>Bioresource Technology</i> , 2019, 272, 415-420.	4.8	78
136	Upcycling wood waste into fibre-reinforced magnesium phosphate cement particleboards. <i>Construction and Building Materials</i> , 2018, 159, 54-63.	3.2	77
137	Green synthesis of graphitic nanobiochar for the removal of emerging contaminants in aqueous media. <i>Science of the Total Environment</i> , 2020, 706, 135725.	3.9	76
138	Hydrothermal Liquefaction of Lignin to Aromatic Chemicals: Impact of Lignin Structure. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 16957-16969.	1.8	76
139	A review on the valorisation of food waste as a nutrient source and soil amendment. <i>Environmental Pollution</i> , 2021, 272, 115985.	3.7	76
140	On the use of limestone calcined clay cement (LC3) in high-strength strain-hardening cement-based composites (HS-SHCC). <i>Cement and Concrete Research</i> , 2021, 144, 106421.	4.6	76
141	A novel type of controlled low strength material derived from alum sludge and green materials. <i>Construction and Building Materials</i> , 2018, 165, 792-800.	3.2	75
142	Pine sawdust biomass and biochars at different pyrolysis temperatures change soil redox processes. <i>Science of the Total Environment</i> , 2018, 625, 147-154.	3.9	75
143	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. <i>Journal of Hazardous Materials</i> , 2020, 383, 121243.	6.5	75
144	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	3.7	75

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145	Transforming wood waste into water-resistant magnesia-phosphate cement particleboard modified by alumina and red mud. <i>Journal of Cleaner Production</i> , 2017, 168, 452-462.	4.6	74
146	Sustainable improvement of soil health utilizing biochar and arbuscular mycorrhizal fungi: A review. <i>Environmental Pollution</i> , 2021, 268, 115549.	3.7	74
147	Impacts of different activation processes on the carbon stability of biochar for oxidation resistance. <i>Bioresource Technology</i> , 2021, 338, 125555.	4.8	74
148	Biochar-augmented carbon-negative concrete. <i>Chemical Engineering Journal</i> , 2022, 431, 133946.	6.6	74
149	Thallium isotopic fractionation in industrial process of pyrite smelting and environmental implications. <i>Journal of Hazardous Materials</i> , 2020, 384, 121378.	6.5	73
150	Temporal sedimentary record of thallium pollution in an urban lake: An emerging thallium pollution source from copper metallurgy. <i>Chemosphere</i> , 2020, 242, 125172.	4.2	73
151	Thallium contamination, health risk assessment and source apportionment in common vegetables. <i>Science of the Total Environment</i> , 2020, 703, 135547.	3.9	73
152	Recycling contaminated sediment into eco-friendly paving blocks by a combination of binary cement and carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2017, 164, 1279-1288.	4.6	72
153	Fe/Al (hydr)oxides engineered biochar for reducing phosphorus leaching from a fertile calcareous soil. <i>Journal of Cleaner Production</i> , 2021, 279, 123877.	4.6	72
154	Life-cycle assessment on food waste valorisation to value-added products. <i>Journal of Cleaner Production</i> , 2018, 199, 840-848.	4.6	71
155	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. <i>Environmental Pollution</i> , 2020, 264, 114687.	3.7	71
156	Emergent thallium exposure from uranium mill tailings. <i>Journal of Hazardous Materials</i> , 2021, 407, 124402.	6.5	71
157	Effects of atmospheric ageing under different temperatures on surface properties of sludge-derived biochar and metal/metalloid stabilization. <i>Chemosphere</i> , 2017, 184, 176-184.	4.2	70
158	Insights into the oxidation of organic contaminants by iron nanoparticles encapsulated within boron and nitrogen co-doped carbon nanoshell: Catalyzed Fenton-like reaction at natural pH. <i>Environment International</i> , 2019, 128, 77-88.	4.8	70
159	Soil lead immobilization by biochars in short-term laboratory incubation studies. <i>Environment International</i> , 2019, 127, 190-198.	4.8	70
160	Soil stabilisation using AMD sludge, compost and lignite: TCLP leachability and continuous acid leaching. <i>Chemosphere</i> , 2013, 93, 2839-2847.	4.2	68
161	Sludge-Derived Biochar for Arsenic(III) Immobilization: Effects of Solution Chemistry on Sorption Behavior. <i>Journal of Environmental Quality</i> , 2015, 44, 1119-1126.	1.0	67
162	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. <i>Journal of Hazardous Materials</i> , 2022, 430, 128479.	6.5	67

#	ARTICLE	IF	CITATIONS
163	Cadmium isotopes as tracers in environmental studies: A review. <i>Science of the Total Environment</i> , 2020, 736, 139585.	3.9	66
164	Integrating EDDS-enhanced washing with low-cost stabilization of metal-contaminated soil from an e-waste recycling site. <i>Chemosphere</i> , 2016, 159, 426-432.	4.2	65
165	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. <i>Science of the Total Environment</i> , 2018, 625, 987-993.	3.9	65
166	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. <i>Environment International</i> , 2019, 131, 105015.	4.8	65
167	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. <i>Environment International</i> , 2020, 135, 105376.	4.8	63
168	Immobilization of hazardous municipal solid waste incineration fly ash by novel alternative binders derived from cementitious waste. <i>Journal of Hazardous Materials</i> , 2020, 393, 122386.	6.5	63
169	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6990-7001.	3.2	63
170	Microscopic mechanism about the selective adsorption of Cr(VI) from salt solution on O-rich and N-rich biochars. <i>Journal of Hazardous Materials</i> , 2021, 404, 124162.	6.5	63
171	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. <i>Chemical Engineering Journal</i> , 2021, 425, 131489.	6.6	63
172	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. <i>Chemosphere</i> , 2018, 205, 178-187.	4.2	62
173	Removal of U(VI) from nuclear mining effluent by porous hydroxyapatite: Evaluation on characteristics, mechanisms and performance. <i>Environmental Pollution</i> , 2019, 254, 112891.	3.7	62
174	Mechanical, durability and environmental aspects of magnesium oxychloride cement boards incorporating waste wood. <i>Journal of Cleaner Production</i> , 2019, 207, 391-399.	4.6	61
175	Comparing biochar- and bentonite-supported Fe-based catalysts for selective degradation of antibiotics: Mechanisms and pathway. <i>Environmental Research</i> , 2020, 183, 109156.	3.7	61
176	High-efficiency and low-carbon remediation of zinc contaminated sludge by magnesium oxysulfate cement. <i>Journal of Hazardous Materials</i> , 2021, 408, 124486.	6.5	61
177	High cadmium pollution from sediments in a eutrophic lake caused by dissolved organic matter complexation and reduction of manganese oxide. <i>Water Research</i> , 2021, 190, 116711.	5.3	61
178	Chelant-enhanced washing of CCA-contaminated soil: Coupled with selective dissolution or soil stabilization. <i>Science of the Total Environment</i> , 2018, 612, 1463-1472.	3.9	60
179	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. <i>Environmental Research</i> , 2020, 183, 109152.	3.7	60
180	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021, 320, 124412.	4.8	60

#	ARTICLE	IF	CITATIONS
181	Environmental and technical feasibility study of upcycling wood waste into cement-bonded particleboard. <i>Construction and Building Materials</i> , 2018, 173, 474-480.	3.2	59
182	A system dynamics approach to determine construction waste disposal charge in Hong Kong. <i>Journal of Cleaner Production</i> , 2019, 241, 118309.	4.6	59
183	Quantitative source tracking of heavy metals contained in urban road deposited sediments. <i>Journal of Hazardous Materials</i> , 2020, 393, 122362.	6.5	59
184	In-situ biochar application conserves nutrients while simultaneously mitigating runoff and erosion of an Fe-oxide-enriched tropical soil. <i>Science of the Total Environment</i> , 2018, 619-620, 665-671.	3.9	58
185	Transformation of functional groups and environmentally persistent free radicals in hydrothermal carbonisation of lignin. <i>Bioresource Technology</i> , 2018, 270, 223-229.	4.8	58
186	Microwave-assisted production of CO ₂ -activated biochar from sugarcane bagasse for electrochemical desalination. <i>Journal of Hazardous Materials</i> , 2020, 383, 121192.	6.5	58
187	Hyperaccumulation and transport mechanism of thallium and arsenic in brake ferns (<i>Pteris vittata</i> L.): A case study from mining area. <i>Journal of Hazardous Materials</i> , 2020, 388, 121756.	6.5	58
188	Microbial insights into the biogeochemical features of thallium occurrence: A case study from polluted river sediments. <i>Science of the Total Environment</i> , 2020, 739, 139957.	3.9	58
189	Evolution of redox activity of biochar during interaction with soil minerals: Effect on the electron donating and mediating capacities for Cr(VI) reduction. <i>Journal of Hazardous Materials</i> , 2021, 414, 125483.	6.5	57
190	Promoting food waste recycling in the commercial and industrial sector by extending the Theory of Planned Behaviour: A Hong Kong case study. <i>Journal of Cleaner Production</i> , 2018, 204, 1034-1043.	4.6	56
191	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021, 289, 125142.	4.6	56
192	Aging effects on chemical transformation and metal(loid) removal by entrapped nanoscale zero-valent iron for hydraulic fracturing wastewater treatment. <i>Science of the Total Environment</i> , 2018, 615, 498-507.	3.9	55
193	Potential impact of flowback water from hydraulic fracturing on agricultural soil quality: Metal/metalloid bioaccessibility, Microtox bioassay, and enzyme activities. <i>Science of the Total Environment</i> , 2017, 579, 1419-1426.	3.9	54
194	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. <i>Chemosphere</i> , 2019, 233, 149-156.	4.2	54
195	Effect of immobilizing reagents on soil Cd and Pb lability under freeze-thaw cycles: Implications for sustainable agricultural management in seasonally frozen land. <i>Environment International</i> , 2020, 144, 106040.	4.8	54
196	Fabrication of L-cysteine stabilized Fe ^{II} -FeOOH nanocomposite on porous hydrophilic biochar as an effective adsorbent for Pb ²⁺ removal. <i>Science of the Total Environment</i> , 2020, 720, 137415.	3.9	54
197	Phosphorus mobilization in lake sediments: Experimental evidence of strong control by iron and negligible influences of manganese redox reactions. <i>Environmental Pollution</i> , 2019, 246, 472-481.	3.7	53
198	Swine manure valorization for phosphorus and nitrogen recovery by catalytic thermal hydrolysis and struvite crystallization. <i>Science of the Total Environment</i> , 2020, 729, 138999.	3.9	53

#	ARTICLE	IF	CITATIONS
199	Emerging Thallium Pollution in China and Source Tracing by Thallium Isotopes. <i>Environmental Science & Technology</i> , 2018, 52, 11977-11979.	4.6	52
200	Effect of biochars pyrolyzed in N ₂ and CO ₂ , and feedstock on microbial community in metal(loid)s contaminated soils. <i>Environment International</i> , 2019, 126, 791-801.	4.8	52
201	Tailored design of food waste hydrochar for efficient adsorption and catalytic degradation of refractory organic contaminant. <i>Journal of Cleaner Production</i> , 2021, 310, 127482.	4.6	52
202	Effects of low-alkalinity binders on stabilization/solidification of geogenic As-containing soils: Spectroscopic investigation and leaching tests. <i>Science of the Total Environment</i> , 2018, 631-632, 1486-1494.	3.9	51
203	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1479-1532.	6.6	50
204	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. <i>Chemical Engineering Journal</i> , 2022, 428, 131967.	6.6	50
205	Simultaneous degradation of p-arsanilic acid and inorganic arsenic removal using M-rGO/PS Fenton-like system under neutral conditions. <i>Journal of Hazardous Materials</i> , 2020, 399, 123032.	6.5	49
206	Metal(loid) immobilization in soils with biochars pyrolyzed in N ₂ and CO ₂ environments. <i>Science of the Total Environment</i> , 2018, 630, 1103-1114.	3.9	48
207	CO ₂ curing and fibre reinforcement for green recycling of contaminated wood into high-performance cement-bonded particleboards. <i>Journal of CO₂ Utilization</i> , 2017, 18, 107-116.	3.3	47
208	Phthalate esters and organochlorine pesticides in agricultural soils and vegetables from fast-growing regions: a case study from eastern China. <i>Environmental Science and Pollution Research</i> , 2018, 25, 34-42.	2.7	46
209	Sustainable impact of tartaric acid as electron shuttle on hierarchical iron-incorporated biochar. <i>Chemical Engineering Journal</i> , 2020, 395, 125138.	6.6	46
210	Removal of chlorinated organic solvents from hydraulic fracturing wastewater by bare and entrapped nanoscale zero-valent iron. <i>Chemosphere</i> , 2018, 196, 9-17.	4.2	45
211	Soil platisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022, 430, 128503.	6.5	45
212	Metal organic frameworks as potent treatment media for odorants and volatiles in air. <i>Environmental Research</i> , 2019, 168, 336-356.	3.7	44
213	Sustainable stabilization/solidification of arsenic-containing soil by blast slag and cement blends. <i>Chemosphere</i> , 2021, 271, 129868.	4.2	44
214	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021, 342, 126067.	4.8	44
215	High contamination risks of thallium and associated metal(loid)s in fluvial sediments from a steel-making area and implications for environmental management. <i>Journal of Environmental Management</i> , 2019, 250, 109513.	3.8	43
216	Participation of soil active components in the reduction of Cr(VI) by biochar: Differing effects of iron mineral alone and its combination with organic acid. <i>Journal of Hazardous Materials</i> , 2020, 384, 121455.	6.5	43

#	ARTICLE	IF	CITATIONS
217	Prussian Blue Analogue-derived co/fe bimetallic nanoparticles immobilized on S/N-doped carbon sheet as a magnetic heterogeneous catalyst for activating peroxymonosulfate in water. <i>Chemosphere</i> , 2020, 244, 125444.	4.2	43
218	Adsorption of acetone and cyclohexane onto CO ₂ activated hydrochars. <i>Chemosphere</i> , 2020, 245, 125664.	4.2	43
219	Evaluation of the BCR sequential extraction scheme for trace metal fractionation of alkaline municipal solid waste incineration fly ash. <i>Chemosphere</i> , 2020, 249, 126115.	4.2	43
220	Contrasting abiotic As(III) immobilization by undissolved and dissolved fractions of biochar in Ca ²⁺ -rich groundwater under anoxic conditions. <i>Water Research</i> , 2020, 183, 116106.	5.3	42
221	Redox-induced transformation of potentially toxic elements with organic carbon in soil. , 2022, 1, .		42
222	Optimizing xylose production from pinewood sawdust through dilute-phosphoric-acid hydrolysis by response surface methodology. <i>Journal of Cleaner Production</i> , 2018, 178, 572-579.	4.6	41
223	Investigation of cold bonded lightweight aggregates produced with incineration sewage sludge ash (ISSA) and cementitious waste. <i>Journal of Cleaner Production</i> , 2020, 251, 119709.	4.6	41
224	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. <i>Journal of Hazardous Materials</i> , 2021, 412, 125213.	6.5	41
225	Polychlorinated biphenyls in agricultural soils from the Yangtze River Delta of China: Regional contamination characteristics, combined ecological effects and human health risks. <i>Chemosphere</i> , 2016, 163, 422-428.	4.2	40
226	Current progress in treatment techniques of triclosan from wastewater: A review. <i>Science of the Total Environment</i> , 2019, 696, 133990.	3.9	39
227	Health risks of metal(loid)s in maize (<i>Zea mays</i> L.) in an artisanal zinc smelting zone and source fingerprinting by lead isotope. <i>Science of the Total Environment</i> , 2020, 742, 140321.	3.9	39
228	Green remediation of benzene contaminated groundwater using persulfate activated by biochar composite loaded with iron sulfide minerals. <i>Chemical Engineering Journal</i> , 2022, 429, 132292.	6.6	39
229	<i>Streptomyces pactum</i> addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. <i>Chemosphere</i> , 2021, 273, 129692.	4.2	38
230	Evaluating the environmental impacts of stabilization and solidification technologies for managing hazardous wastes through life cycle assessment: A case study of Hong Kong. <i>Environment International</i> , 2020, 145, 106139.	4.8	38
231	Critical insight and indication on particle size effects towards uranium release from uranium mill tailings: Geochemical and mineralogical aspects. <i>Chemosphere</i> , 2020, 250, 126315.	4.2	37
232	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. <i>Journal of Hazardous Materials</i> , 2021, 416, 125738.	6.5	37
233	Fabrication of spherical biochar by a two-step thermal process from waste potato peel. <i>Science of the Total Environment</i> , 2018, 626, 478-485.	3.9	35
234	Efficient succinic acid production using a biochar-treated textile waste hydrolysate in an in situ fibrous bed bioreactor. <i>Biochemical Engineering Journal</i> , 2019, 149, 107249.	1.8	34

#	ARTICLE	IF	CITATIONS
235	Singlet oxygen mediated the selective removal of oxytetracycline in C/Fe ₃ C/FeO system as compared to chloramphenicol. <i>Environment International</i> , 2020, 143, 105899.	4.8	34
236	Zero-valent iron for the abatement of arsenate and selenate from flowback water of hydraulic fracturing. <i>Chemosphere</i> , 2017, 167, 163-170.	4.2	33
237	Stabilization treatment of arsenic-alkali residue (AAR): Effect of the coexisting soluble carbonate on arsenic stabilization. <i>Environment International</i> , 2020, 135, 105406.	4.8	33
238	Interactions between biochar and clay minerals in changing biochar carbon stability. <i>Science of the Total Environment</i> , 2022, 809, 151124.	3.9	33
239	Contamination characteristics and source apportionment of methylated PAHs in agricultural soils from Yangtze River Delta, China. <i>Environmental Pollution</i> , 2017, 230, 927-935.	3.7	32
240	Geochemical fractionation of thallium in contaminated soils near a large-scale Hg-Tl mineralised area. <i>Chemosphere</i> , 2020, 239, 124775.	4.2	32
241	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. <i>Journal of Hazardous Materials</i> , 2022, 421, 126647.	6.5	32
242	Continuous leaching modifies the surface properties and metal(loid) sorption of sludge-derived biochar. <i>Science of the Total Environment</i> , 2018, 625, 731-737.	3.9	31
243	Selective degradation and oxidation of hemicellulose in corncob to oligosaccharides: From biomass into masking agent for sustainable leather tanning. <i>Journal of Hazardous Materials</i> , 2021, 413, 125425.	6.5	31
244	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. <i>Environmental Research</i> , 2022, 212, 113495.	3.7	31
245	Quantitative isotopic fingerprinting of thallium associated with potentially toxic elements (PTEs) in fluvial sediment cores with multiple anthropogenic sources. <i>Environmental Pollution</i> , 2020, 266, 115252.	3.7	30
246	Seasonal antimony pollution caused by high mobility of antimony in sediments: In situ evidence and mechanical interpretation. <i>Journal of Hazardous Materials</i> , 2019, 367, 427-436.	6.5	29
247	Transforming waterworks sludge into controlled low-strength material: Bench-scale optimization and field test validation. <i>Journal of Environmental Management</i> , 2019, 232, 254-263.	3.8	29
248	The roles of suspended solids in persulfate/Fe ²⁺ treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. <i>Chemical Engineering Journal</i> , 2020, 388, 124243.	6.6	29
249	Nitrate removal uncertainty in stormwater control measures: Is the design or climate a culprit?. <i>Water Research</i> , 2021, 190, 116781.	5.3	29
250	Cytotoxicity of stabilized/solidified municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022, 424, 127369.	6.5	29
251	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An Experimental and Computational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 1437-1446.	3.2	28
252	Persistent thallium contamination in river sediments, source apportionment and environmental implications. <i>Ecotoxicology and Environmental Safety</i> , 2020, 202, 110874.	2.9	28

#	ARTICLE	IF	CITATIONS
253	Effects and mechanisms of mineral amendment on thallium mobility in highly contaminated soils. <i>Journal of Environmental Management</i> , 2020, 262, 110251.	3.8	27
254	Dynamic leaching behavior of geogenic As in soils after cement-based stabilization/solidification. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27822-27832.	2.7	26
255	Performance indicators for a holistic evaluation of catalyst-based degradation—A case study of selected pharmaceuticals and personal care products (PPCPs). <i>Journal of Hazardous Materials</i> , 2021, 402, 123460.	6.5	26
256	Utilizing acid mine drainage sludge and coal fly ash for phosphate removal from dairy wastewater. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 3177-3182.	1.2	25
257	Insights into the subsurface transport of As(V) and Se(VI) in produced water from hydraulic fracturing using soil samples from Qingshankou Formation, Songliao Basin, China. <i>Environmental Pollution</i> , 2017, 223, 449-456.	3.7	25
258	Spatial variation of sediment bacterial community in an acid mine drainage contaminated area and surrounding river basin. <i>Journal of Environmental Management</i> , 2019, 251, 109542.	3.8	25
259	Efficacy of green alternatives and carbon dioxide curing in reactive magnesia cement-bonded particleboards. <i>Journal of Cleaner Production</i> , 2020, 258, 120997.	4.6	25
260	Stoichiometric carbocatalysis via epoxide-like C—O configuration on sulfur-doped biochar for environmental remediation. <i>Journal of Hazardous Materials</i> , 2022, 428, 128223.	6.5	25
261	A new DGT technique comprised in a hybrid sensor for the simultaneous measurement of ammonium, nitrate, phosphorus and dissolved oxygen. <i>Science of the Total Environment</i> , 2020, 725, 138447.	3.9	24
262	Sorption, mobility, and bioavailability of PBDEs in the agricultural soils: Roles of co-existing metals, dissolved organic matter, and fertilizers. <i>Science of the Total Environment</i> , 2018, 619-620, 1153-1162.	3.9	23
263	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. <i>Journal of Cleaner Production</i> , 2019, 212, 420-427.	4.6	23
264	Customizing high-performance molten salt biochar from wood waste for CO ₂ /N ₂ separation. <i>Fuel Processing Technology</i> , 2022, 234, 107319.	3.7	23
265	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. <i>Journal of Cleaner Production</i> , 2021, 280, 124418.	4.6	22
266	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. <i>Science of the Total Environment</i> , 2021, 756, 143866.	3.9	21
267	Valorization of biomass from plant microbial fuel cells into levulinic acid by using liquid/solid acids and green solvents. <i>Journal of Cleaner Production</i> , 2020, 260, 121097.	4.6	20
268	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. <i>Journal of Cleaner Production</i> , 2020, 268, 122300.	4.6	20
269	Effects of Zn in sludge-derived biochar on Cd immobilization and biological uptake by lettuce. <i>Science of the Total Environment</i> , 2020, 714, 136721.	3.9	19
270	Highly effective degradation of sodium dodecylbenzene sulphonate and synthetic greywater by Fenton-like reaction over zerovalent iron-based catalyst. <i>Environmental Technology (United Kingdom)</i> , 2016, 37, 1650-1657.	1.0	18

#	ARTICLE	IF	CITATIONS
271	Contribution of pyrolytic gas medium to the fabrication of co-impregnated biochar. <i>Journal of CO2 Utilization</i> , 2018, 26, 476-486.	3.3	17
272	Silica Supported MgO as An Adsorbent for Precombustion CO ₂ Capture. <i>ACS Applied Nano Materials</i> , 2019, 2, 6565-6574.	2.4	17
273	Catalytic thermolysis of oak sawdust using Fe-based catalyst and CO ₂ . <i>Journal of CO2 Utilization</i> , 2019, 32, 269-275.	3.3	17
274	Effects of elevated CO ₂ on the phytoremediation efficiency of <i>Noccaea caerulea</i> . <i>Environmental Pollution</i> , 2019, 255, 113169.	3.7	16
275	Synergistic utilization of inherent halides and alcohols in hydraulic fracturing wastewater for radical-based treatment: A case study of di-(2-ethylhexyl) phthalate removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121321.	6.5	16
276	Scavenger-free and self-powered photocathodic sensing system for aqueous hydrogen peroxide monitoring by CuO/ZnO nanostructure. <i>Chemical Engineering Science</i> , 2020, 226, 115886.	1.9	16
277	Coupling carbon dioxide and magnetite for the enhanced thermolysis of polyvinyl chloride. <i>Science of the Total Environment</i> , 2019, 696, 133951.	3.9	15
278	Experimental and DFT investigation on N-functionalized biochars for enhanced removal of Cr(VI). <i>Environmental Pollution</i> , 2021, 291, 118244.	3.7	15
279	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations. <i>Environmental Pollution</i> , 2022, 299, 118877.	3.7	15
280	Transformation of heavy metal fraction distribution in contaminated river sediment treated by chemical-enhanced washing. <i>Journal of Soils and Sediments</i> , 2017, 17, 1208-1218.	1.5	14
281	Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. <i>Journal of Cleaner Production</i> , 2020, 268, 122378.	4.6	14
282	Thallium geochemical fractionation and migration in Tl-As rich soils: The key controls. <i>Science of the Total Environment</i> , 2021, 784, 146995.	3.9	14
283	Comparison of pollutant source tracking approaches: Heavy metals deposited on urban road surfaces as a case study. <i>Environmental Pollution</i> , 2020, 266, 115253.	3.7	13
284	Green remediation by using low-carbon cement-based stabilization/solidification approaches. , 2020, , 93-118.		11
285	Evaluating the environmental impact of contaminated sediment column stabilized by deep cement mixing. <i>Chemosphere</i> , 2020, 261, 127755.	4.2	10
286	Carbon dioxide assisted thermal decomposition of cattle excreta. <i>Science of the Total Environment</i> , 2018, 615, 70-77.	3.9	7
287	Biochar and sustainable development goals. , 2022, , 15-22.		6
288	A holistic understanding of cobalt cycling and limiting roles in the eutrophic Lake Taihu. <i>Chemosphere</i> , 2021, 277, 130234.	4.2	4

#	ARTICLE	IF	CITATIONS
289	Overview of hazardous waste treatment and stabilization/solidification technology. , 2022, , 1-14.		4
290	Carbon dioxide sequestration on composites based on waste wood. , 2018, , 431-450.		3
291	Biorefinery-assisted soil management for enhancing food security. Journal of Soils and Sediments, 2020, 20, 4007-4010.	1.5	3
292	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.	0.3	2
293	Biochar for green and sustainable stabilization/solidification. , 2022, , 65-73.		1
294	Sustainable carbohydrate-derived building materials. , 2020, , 285-304.		0
295	Future research directions for sustainable remediation. , 2022, , 555-564.		0
296	Evaluating comprehensive carbon emissions of solidification/stabilization technologies: a case study. , 2022, , 517-530.		0