

Yong Sik Ok

List of Publications by Year in descending order

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744
papers

80,026
citations

188

146
h-index

823

239
g-index

769
all docs

769
docs citations

769
times ranked

41913
citing authors

#	ARTICLE	IF	CITATIONS
1	Conversion of organic solid waste into energy and functional materials using biochar catalyst: Bibliometric analysis, research progress, and directions. <i>Applied Catalysis B: Environmental</i> , 2024, 340, 123223.	20.7	19
2	Machine Learning for Heavy Metal Removal from Water: Recent Advances and Challenges. <i>ACS ES&T Water</i> , 2024, 4, 820-836.	4.8	5
3	Regional and global hotspots of arsenic contamination of topsoil identified by deep learning. <i>Communications Earth & Environment</i> , 2024, 5, .	6.8	11
4	Impacts of microplastics on terrestrial plants: A critical review. <i>Land Degradation and Development</i> , 2024, 35, 1629-1643.	3.9	3
5	Navigating the Challenges of Environmental, Social, and Governance (ESG) Reporting: The Path to Broader Sustainable Development. <i>Sustainability</i> , 2024, 16, 606.	3.3	8
6	Soil microplastic analysis: a harmonized methodology. <i>Critical Reviews in Environmental Science and Technology</i> , 2024, 54, 1138-1163.	12.8	1
7	Active Learning-Based Guided Synthesis of Engineered Biochar for CO ₂ Capture. <i>Environmental Science & Technology</i> , 2024, 58, 6628-6636.	10.5	2
8	Biochar in environmental management. , 2024, , 855-867.		0
9	Strategies for Sustainable Management of Mineral Resources for Korea's Major Battery Producers (LG) Tj ETQq1_1_0.784314 rgBT / 1.1	1.1	0
10	Effects of biodegradable poly(butylene adipate-co-terephthalate) and poly(lactic acid) plastic degradation on soil ecosystems. <i>Soil Use and Management</i> , 2024, 40, .	4.6	1
11	ESG Management Strategy Analysis for Biodiversity Activity Integrity: The Case of POSCO Group. <i>Daehan Hwan'gyeong Gonghag Hoeji</i> , 2024, 46, 310-318.	1.1	0
12	Antibiotics and antibiotic resistance genes in agricultural soils: A systematic analysis. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 847-864.	12.8	101
13	Environmental impact of metal halide perovskite solar cells and potential mitigation strategies: A critical review. <i>Environmental Research</i> , 2023, 219, 115066.	7.7	10
14	Sustainable remediation and redevelopment of brownfield sites. <i>Nature Reviews Earth & Environment</i> , 2023, 4, 271-286.	20.6	85
15	Photoaging of Typical Microplastics as Affected by Air Humidity: Mechanistic Insights into the Important Role of Water Molecules. <i>Environmental Science & Technology</i> , 2023, 57, 5967-5977.	10.5	14
16	Natural Solar Irradiation Produces Fluorescent and Biodegradable Nanoplastics. <i>Environmental Science & Technology</i> , 2023, 57, 6626-6635.	10.5	8
17	Ultrafast Selective Enrichment of Ammonia Nitrogen from Water Using Sulfonated Covalent Organic Frameworks Bearing Single Cu Sites. <i>ACS ES&T Engineering</i> , 2023, 3, 1511-1520.	7.8	4
18	Integrated 3D pore architecture design of bio-based engineered catalysts and adsorbents: preparation, chemical doping, and environmental applications. <i>Environmental Science Advances</i> , 2023, 2, 1167-1188.	2.4	4

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19	Machine learning based prediction and experimental validation of arsenite and arsenate sorption on biochars. <i>Science of the Total Environment</i> , 2023, 904, 166678.	8.2	2
20	Vanadium in the Environment: Biogeochemistry and Bioremediation. <i>Environmental Science & Technology</i> , 2023, 57, 14770-14786.	10.5	39
21	Conversion of biochar into sulfonate-bearing solid acids used for the hydrolysis of tylosin: the effect of aromaticity and degree of condensation. <i>Biochar</i> , 2023, 5, .	12.8	1
22	A critical review of the interactions between rhizosphere and biochar during the remediation of metal(loid) contaminated soils. <i>Biochar</i> , 2023, 5, .	12.8	6
23	Energy, economic, and environmental impacts of sustainable biochar systems in rural China. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1063-1091.	12.8	28
24	Hydrometallurgical processes for heavy metals recovery from industrial sludges. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1022-1062.	12.8	67
25	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2611-2660.	12.8	57
26	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	19.7	298
27	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022, 38, 14-38.	4.6	80
28	A remediation approach to chromium-contaminated water and soil using engineered biochar derived from peanut shell. <i>Environmental Research</i> , 2022, 204, 112125.	7.7	65
29	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127396.	12.6	44
30	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.	12.6	33
31	Microwave-assisted gasification of biomass for sustainable and energy-efficient biohydrogen and biosyngas production: A state-of-the-art review. <i>Chemosphere</i> , 2022, 287, 132014.	8.4	34
32	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.	13.0	47
33	National-scale distribution of micro(meso)plastics in farmland soils across China: Implications for environmental impacts. <i>Journal of Hazardous Materials</i> , 2022, 424, 127283.	12.6	78
34	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.	13.0	57
35	Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability. <i>Journal of Hazardous Materials</i> , 2022, 423, 127023.	12.6	58
36	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. <i>Chemosphere</i> , 2022, 286, 131935.	8.4	1

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37	Elucidating the redox-driven dynamic interactions between arsenic and iron-impregnated biochar in a paddy soil using geochemical and spectroscopic techniques. <i>Journal of Hazardous Materials</i> , 2022, 422, 126808.	12.6	64
38	Co-pyrolysis of microalgae and other biomass wastes for the production of high-quality bio-oil: Progress and prospective. <i>Bioresource Technology</i> , 2022, 344, 126096.	9.7	60
39	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	7.7	96
40	State-of-the-art of the pyrolysis and co-pyrolysis of food waste: Progress and challenges. <i>Science of the Total Environment</i> , 2022, 809, 151170.	8.2	31
41	Special issue on biochar technologies, production, and environmental applications in <i>Critical Reviews in Environmental Science & Technology</i> during 2017â€“2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3375-3383.	12.8	8
42	Pristine and engineered biochar for the removal of contaminants co-existing in several types of industrial wastewaters: A critical review. <i>Science of the Total Environment</i> , 2022, 809, 151120.	8.2	62
43	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. <i>Environmental Pollution</i> , 2022, 292, 118412.	7.7	13
44	A sensitive environmental forensic method that determines bisphenol S and A exposure within receipt-handling through fingerprint analysis. <i>Journal of Hazardous Materials</i> , 2022, 424, 127410.	12.6	8
45	Enhancing microbial lipids yield for biodiesel production by oleaginous yeast <i>Lipomyces starkeyi</i> fermentation: A review. <i>Bioresource Technology</i> , 2022, 344, 126294.	9.7	31
46	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. <i>Science of the Total Environment</i> , 2022, 806, 151394.	8.2	3
47	Removal of phosphate from water by paper mill sludge biochar. <i>Environmental Pollution</i> , 2022, 293, 118521.	7.7	33
48	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111814.	16.8	42
49	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.	12.6	89
50	Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock. <i>Environmental Pollution</i> , 2022, 294, 118627.	7.7	9
51	A systematic review on adsorptive removal of hexavalent chromium from aqueous solutions: Recent advances. <i>Science of the Total Environment</i> , 2022, 809, 152055.	8.2	91
52	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment. <i>Bioresource Technology</i> , 2022, 346, 126582.	9.7	71
53	Biodegradation and effects of EDDS and NTA on Zn in soil solutions during phytoextraction by alfalfa in soils with three Zn levels. <i>Chemosphere</i> , 2022, 292, 133519.	8.4	13
54	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidationâ€“adsorption mechanism. <i>Journal of Hazardous Materials</i> , 2022, 427, 128117.	12.6	18

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55	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	9.3	65
56	Wet wastes to bioenergy and biochar: A critical review with future perspectives. <i>Science of the Total Environment</i> , 2022, 817, 152921.	8.2	57
57	Biochar alters chemical and microbial properties of microplastic-contaminated soil. <i>Environmental Research</i> , 2022, 209, 112807.	7.7	58
58	Effects of microplastics on the terrestrial environment: A critical review. <i>Environmental Research</i> , 2022, 209, 112734.	7.7	174
59	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.	12.6	79
60	Surface interactions of oxytetracycline on municipal solid waste-derived biochar–montmorillonite composite. <i>Sustainable Environment</i> , 2022, 8, .	2.3	7
61	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. <i>Environmental Science & Technology</i> , 2022, 56, 4187-4198.	10.5	192
62	Combined effect of biochar and soil moisture on soil chemical properties and microbial community composition in microplastic-contaminated agricultural soil. <i>Soil Use and Management</i> , 2022, 38, 1446-1458.	4.6	28
63	New measures in 2022 to enhance the quality and reputation of Critical Reviews in <i>Environmental Science and Technology</i> journal. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3943-3946.	12.8	2
64	Valorization of animal manure via pyrolysis for bioenergy: A review. <i>Journal of Cleaner Production</i> , 2022, 343, 130965.	9.5	46
65	Effect of LDPE microplastics on chemical properties and microbial communities in soil. <i>Soil Use and Management</i> , 2022, 38, 1481-1492.	4.6	26
66	Arsenic bioaccumulation and biotransformation in aquatic organisms. <i>Environment International</i> , 2022, 163, 107221.	10.1	61
67	Soil platisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022, 430, 128503.	12.6	64
68	Green synthesis of graphite-based photo-Fenton nanocatalyst from waste tar via a self-reduction and solvent-free strategy. <i>Science of the Total Environment</i> , 2022, 824, 153772.	8.2	8
69	Critical evaluation of biochar utilization effect on mitigating global warming in whole rice cropping boundary. <i>Science of the Total Environment</i> , 2022, 827, 154344.	8.2	10
70	Preparation and thermal conductivity enhancement of a paraffin wax-based composite phase change material doped with garlic stem biochar microparticles. <i>Science of the Total Environment</i> , 2022, 827, 154341.	8.2	37
71	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar. <i>Chemosphere</i> , 2022, 299, 134426.	8.4	13
72	Nitrogen transformation in slightly polluted surface water by a novel biofilm reactor: Long-term performance and microbial population characteristics. <i>Science of the Total Environment</i> , 2022, 829, 154623.	8.2	3

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73	Mulched drip irrigation and biochar application reduce gaseous nitrogen emissions, but increase nitrogen uptake and peanut yield. <i>Science of the Total Environment</i> , 2022, 830, 154753.	8.2	25
74	Environmental applications and risks of nanomaterials: An introduction to CREST publications during 2018â€“2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3753-3762.	12.8	23
75	Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement. <i>Water Research</i> , 2022, 218, 118468.	11.5	18
76	Recent advancements in sustainable upcycling of solid waste into porous carbons for carbon dioxide capture. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 162, 112413.	16.8	41
77	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112515.	16.8	118
78	Engineered biochar as a potential adsorbent for carbon dioxide capture. , 2022, , 345-359.		1
79	Global arsenic dilemma and sustainability. <i>Journal of Hazardous Materials</i> , 2022, 436, 129197.	12.6	42
80	Customizing high-performance molten salt biochar from wood waste for CO ₂ /N ₂ separation. <i>Fuel Processing Technology</i> , 2022, 234, 107319.	7.3	25
81	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2022, 56, 8953-8963.	10.5	18
82	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. <i>Environmental Research</i> , 2022, 212, 113495.	7.7	39
83	<i>Methanosarcina thermophila</i> bioaugmentation and its synergy with biochar growth support particles versus polypropylene microplastics in thermophilic food waste anaerobic digestion. <i>Bioresource Technology</i> , 2022, 360, 127531.	9.7	9
84	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 444-460.	20.6	306
85	Biochar affects greenhouse gas emissions in various environments: A critical review. <i>Land Degradation and Development</i> , 2022, 33, 3327-3342.	3.9	33
86	From waste to fertilizer: Nutrient recovery from wastewater by pristine and engineered biochars. <i>Chemosphere</i> , 2022, 306, 135310.	8.4	34
87	Impact of sulfur-impregnated biochar amendment on microbial communities and mercury methylation in contaminated sediment. <i>Journal of Hazardous Materials</i> , 2022, 438, 129464.	12.6	10
88	Bioaugmentation of <i>Methanosarcina thermophila</i> grown on biochar particles during semi-continuous thermophilic food waste anaerobic digestion under two different bioaugmentation regimes. <i>Bioresource Technology</i> , 2022, 360, 127590.	9.7	4
89	Digestion of plastics using in vitro human gastrointestinal tract and their potential to adsorb emerging organic pollutants. <i>Science of the Total Environment</i> , 2022, 843, 157108.	8.2	22
90	Designer biochar with enhanced functionality for efficient removal of radioactive cesium and strontium from water. <i>Environmental Research</i> , 2022, 214, 114072.	7.7	14

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91	When Bigger Is Not Greener: Ensuring the Sustainability of Power-to-Gas Hydrogen on a National Scale. <i>Environmental Science & Technology</i> , 2022, 56, 12828-12837.	10.5	2
92	Arsenic removal from water and soils using pristine and modified biochars. <i>Biochar</i> , 2022, 4, .	12.8	37
93	Sustainable Food Waste Management: Synthesizing Engineered Biochar for CO ₂ Capture. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 13026-13036.	6.9	23
94	The development of research on environmental, social, and governance (ESG): A bibliometric analysis. <i>Sustainable Environment</i> , 2022, 8, .	2.3	26
95	Integrating Biochar, Bacteria, and Plants for Sustainable Remediation of Soils Contaminated with Organic Pollutants. <i>Environmental Science & Technology</i> , 2022, 56, 16546-16566.	10.5	137
96	Progress, Barriers, and Prospects for Achieving a "Hydrogen Society" and Opportunities for Biochar Technology. <i>ACS ES&T Engineering</i> , 2022, 2, 1987-2001.	7.8	11
97	Embrace complexity to understand microplastic pollution. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 736-737.	20.6	39
98	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2531-2566.	12.8	54
99	Sustainable use of biochar for resource recovery and pharmaceutical removal from human urine: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 3016-3048.	12.8	21
100	Selective Aerobic Upgrading of Lignin-Derived Compound Using a Recyclable Dual-Functional TPO-Loaded Cu-BTC Catalyst. <i>Waste and Biomass Valorization</i> , 2021, 12, 673-685.	3.4	2
101	Engineered/designer hierarchical porous carbon materials for organic pollutant removal from water and wastewater: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 2295-2328.	12.8	26
102	Recent advances in photodegradation of antibiotic residues in water. <i>Chemical Engineering Journal</i> , 2021, 405, 126806.	13.0	273
103	THE DARK SIDE OF BLACK GOLD: Ecotoxicological aspects of biochar and biochar-amended soils. <i>Journal of Hazardous Materials</i> , 2021, 403, 123833.	12.6	173
104	Multi-task prediction and optimization of hydrochar properties from high-moisture municipal solid waste: Application of machine learning on waste-to-resource. <i>Journal of Cleaner Production</i> , 2021, 278, 123928.	9.5	119
105	Zn phytoextraction and recycling of alfalfa biomass as potential Zn-biofortified feed crop. <i>Science of the Total Environment</i> , 2021, 760, 143424.	8.2	14
106	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021, 289, 125142.	9.5	62
107	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021, 757, 143820.	8.2	113
108	Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. <i>Environmental Pollution</i> , 2021, 272, 116009.	7.7	25

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109	Recent progress in the development of biomass-derived nitrogen-doped porous carbon. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3703-3728.	10.5	198
110	Biochar-impacted sulfur cycling affects methylmercury phytoavailability in soils under different redox conditions. <i>Journal of Hazardous Materials</i> , 2021, 407, 124397.	12.6	23
111	An integrated approach of rice hull biochar-alternative water management as a promising tool to decrease inorganic arsenic levels and to sustain essential element contents in rice. <i>Journal of Hazardous Materials</i> , 2021, 405, 124188.	12.6	15
112	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. <i>ACS ES&T Water</i> , 2021, 1, 108-116.	4.8	7
113	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils – To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , 2021, 401, 123892.	12.6	196
114	Biodegradable chito-beads replacing non-biodegradable microplastics for cosmetics. <i>Green Chemistry</i> , 2021, 23, 6953-6965.	9.3	48
115	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. <i>Sustainable Environment</i> , 2021, 7, .	2.3	11
116	The Impact of Cinnamon Oil on Hepatorenal Toxicity and Antioxidant Related Gene Expression Induced by Deltamethrin in Rat. <i>Advances in Animal and Veterinary Sciences</i> , 2021, 9, .	0.2	3
117	Molecular characterization and environmental impacts of water-soluble organic compounds of bio-oil from the thermochemical treatment of domestic sewage sludge. <i>Science of the Total Environment</i> , 2021, 756, 144050.	8.2	9
118	Engineered biochar – A sustainable solution for the removal of antibiotics from water. <i>Chemical Engineering Journal</i> , 2021, 405, 126926.	13.0	250
119	Development of a novel fluorescent biosensor for dynamic monitoring of metabolic methionine redox status in cells and tissues. <i>Biosensors and Bioelectronics</i> , 2021, 178, 113031.	10.5	10
120	Carbon sequestration value of biosolids applied to soil: A global meta-analysis. <i>Journal of Environmental Management</i> , 2021, 284, 112008.	8.0	22
121	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. <i>Environment International</i> , 2021, 149, 106367.	10.1	316
122	Rice genotype's responses to arsenic stress and cancer risk: The effects of integrated birnessite-modified rice hull biochar-water management applications. <i>Science of the Total Environment</i> , 2021, 768, 144531.	8.2	10
123	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. <i>Fuel</i> , 2021, 292, 120309.	6.6	38
124	Global Plastic Pollution Observation System to Aid Policy. <i>Environmental Science & Technology</i> , 2021, 55, 7770-7775.	10.5	63
125	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , 2021, 271, 129510.	8.4	36
126	New measures in 2021 to increase the quality and reputation of the Critical Review in Environmental Science and Technology (CREST) journal. <i>Critical Reviews in Environmental Science and Technology</i> , 2021, 51, 1303-1305.	12.8	3

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127	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6864-6874.	6.9	37
128	Adsorption and visible-light photocatalytic degradation of organic pollutants by functionalized biochar: Role of iodine doping and reactive species. <i>Environmental Research</i> , 2021, 197, 111026.	7.7	45
129	Arsenic biogeochemical cycling in paddy soil-rice system: Interaction with various factors, amendments and mineral nutrients. <i>Science of the Total Environment</i> , 2021, 773, 145040.	8.2	108
130	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. <i>Environmental Research</i> , 2021, 197, 111091.	7.7	56
131	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. <i>Journal of Hazardous Materials</i> , 2021, 412, 125213.	12.6	50
132	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021, 329, 124870.	9.7	92
133	Roles of Biochar and CO ₂ Curing in Sustainable Magnesia Cement-Based Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8603-8610.	6.9	74
134	Set sustainable goals for the Arctic gateway coordinated international governance is required to resist yet another tipping point. <i>Science of the Total Environment</i> , 2021, 776, 146003.	8.2	3
135	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.	12.6	178
136	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111029.	16.8	120
137	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. <i>Environmental Pollution</i> , 2021, 281, 117094.	7.7	95
138	Magnetic biochar production alters the molecular characteristics and biological response of pyrolysis volatile-derived water-soluble organic matter. <i>Science of the Total Environment</i> , 2021, 778, 146142.	8.2	4
139	Applied Machine Learning for Prediction of CO ₂ Adsorption on Biomass Waste-Derived Porous Carbons. <i>Environmental Science & Technology</i> , 2021, 55, 11925-11936.	10.5	168
140	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. <i>Journal of Cleaner Production</i> , 2021, 309, 127469.	9.5	46
141	The role of soils in the disposition, sequestration and decontamination of environmental contaminants. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2021, 376, 20200177.	4.2	33
142	Fe(III) loaded chitosan-biochar composite fibers for the removal of phosphate from water. <i>Journal of Hazardous Materials</i> , 2021, 415, 125464.	12.6	97
143	Seafood safety data support the United Nations Sustainable Development Goals. <i>Chemosphere</i> , 2021, 277, 130221.	8.4	1
144	Biochar utilisation in the anaerobic digestion of food waste for the creation of a circular economy via biogas upgrading and digestate treatment. <i>Bioresource Technology</i> , 2021, 333, 125190.	9.7	45

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145	How biochar works, and when it doesn't: A review of mechanisms controlling soil and plant responses to biochar. <i>GCB Bioenergy</i> , 2021, 13, 1731-1764.	5.7	371
146	Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. <i>Science of the Total Environment</i> , 2021, 786, 147381.	8.2	42
147	Strong, Multifaceted Guanidinium-Based Adhesion of Bioorganic Nanoparticles to Wet Biological Tissue. <i>Jacs Au</i> , 2021, 1, 1399-1411.	8.3	19
148	Natural and engineered clays and clay minerals for the removal of poly- and perfluoroalkyl substances from water: State-of-the-art and future perspectives. <i>Advances in Colloid and Interface Science</i> , 2021, 297, 102537.	15.1	60
149	The COVID-19 pandemic necessitates a shift to a plastic circular economy. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 659-660.	20.6	101
150	COVID-19 discarded disposable gloves as a source and a vector of pollutants in the environment. <i>Journal of Hazardous Materials</i> , 2021, 417, 125938.	12.6	57
151	Recycling Polymeric Solid Wastes for Energy-efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , 2021, 17, e2102459.	11.1	11
152	Carbon precursors in coal tar: Extraction and preparation of carbon materials. <i>Science of the Total Environment</i> , 2021, 788, 147697.	8.2	16
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308	Metal sorption by biochars: A trade-off between phosphate and carbonate concentration as governed by pyrolysis conditions. <i>Journal of Environmental Management</i> , 2019, 246, 496-504.	8.0	16
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310	Effectively remediating spiramycin from production wastewater through hydrolyzing its functional groups using solid superacid TiO ₂ /SO ₄ . <i>Environmental Research</i> , 2019, 175, 393-401.	7.7	18
311	Targeted removal of organic foulants in landfill leachate in forward osmosis system integrated with biochar/activated carbon treatment. <i>Water Research</i> , 2019, 160, 217-227.	11.5	67
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321	Production of bioplastic through food waste valorization. <i>Environment International</i> , 2019, 127, 625-644.	10.1	354
322	Arsenic in cooked rice foods: Assessing health risks and mitigation options. <i>Environment International</i> , 2019, 127, 584-591.	10.1	83
323	Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO ₂ capture. <i>Journal of Hazardous Materials</i> , 2019, 374, 365-371.	12.6	56
324	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.	8.0	274

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457	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. <i>Environment International</i> , 2018, 119, 1-19.	10.1	223
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465	Biochar for crop production: potential benefits and risks. <i>Journal of Soils and Sediments</i> , 2017, 17, 685-716.	3.0	358
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470	Kinetics of Hg adsorption onto noncrystalline Al hydroxide as influenced by low-molecular-weight organic ligands. Archives of Agronomy and Soil Science, 2017, 63, 124-135.	2.7	4
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473	Enhancement of chromate reduction in soils by surface modified biochar. Journal of Environmental Management, 2017, 186, 277-284.	8.0	135
474	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.	12.6	432
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529	Using CO ₂ to mitigate evolution of harmful chemical compounds during thermal degradation of printed circuit boards. <i>Journal of CO₂ Utilization</i> , 2017, 20, 66-72.	7.0	27
530	The stability and removal of water-dispersed CdSe/CdS core-shell quantum dots from water. <i>Chemosphere</i> , 2017, 185, 926-933.	8.4	11
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538	Enhancement of energy recovery from chicken manure by pyrolysis in carbon dioxide. <i>Journal of Cleaner Production</i> , 2017, 164, 146-152.	9.5	39
539	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. <i>Bioresource Technology</i> , 2017, 246, 254-270.	9.7	424
540	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. <i>Chemosphere</i> , 2017, 184, 197-206.	8.4	137

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#	ARTICLE	IF	CITATIONS
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569	Effect of barley straw biochar application on greenhouse gas emissions from upland soil for Chinese cabbage cultivation in short-term laboratory experiments. <i>Journal of Mountain Science</i> , 2016, 13, 693-702.	2.0	18
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579	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. <i>Bioresource Technology</i> , 2016, 219, 338-347.	9.7	102
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587	Contrasting effects of biochar, compost and farm manure on alleviation of nickel toxicity in maize (<i>Zea mays</i> L.) in relation to plant growth, photosynthesis and metal uptake. <i>Ecotoxicology and Environmental Safety</i> , 2016, 133, 218-225.	6.2	191
588	Interface interactions between insecticide carbofuran and tea waste biochars produced at different pyrolysis temperatures. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 110-118.	2.0	40
589	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1498-1528.	12.8	113
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591	Pyrolysis temperature and steam activation effects on sorption of phosphate on pine sawdust biochars in aqueous solutions. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 42-50.	2.0	86
592	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.	8.4	65
593	Sulfur crosslinks from thermal degradation of chitosan dithiocarbamate derivatives and thermodynamic study for sorption of copper and cadmium from aqueous system. <i>Environmental Science and Pollution Research</i> , 2016, 23, 1050-1059.	5.3	19
594	Mild hydrothermal conditioning prior to torrefaction and slow pyrolysis of low-value biomass. <i>Bioresource Technology</i> , 2016, 217, 104-112.	9.7	25

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596	Acute toxicity and gene responses induced by endosulfan in zebrafish (<i>Danio rerio</i>) embryos. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 103-109.	2.0	19
597	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. <i>Chemosphere</i> , 2016, 148, 276-291.	8.4	1,020
598	Adsorption of Cd by peanut husks and peanut husk biochar from aqueous solutions. <i>Ecological Engineering</i> , 2016, 87, 240-245.	3.7	149
599	Sorption of polycyclic aromatic hydrocarbons (PAHs) by dietary fiber extracted from wheat bran. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 13-17.	2.0	5
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602	Steam activation of biochars facilitates kinetics and pH-resilience of sulfamethazine sorption. <i>Journal of Soils and Sediments</i> , 2016, 16, 889-895.	3.0	54
603	Comparative evaluation for the sorption capacity of four carbonaceous sorbents to phenol. <i>Chemical Speciation and Bioavailability</i> , 2016, 28, 18-25.	2.0	8
604	Removal of antimonate and antimonite from water by schwertmannite granules. <i>Desalination and Water Treatment</i> , 2016, 57, 25639-25652.	1.0	14
605	Remediation of arsenic-contaminated water using agricultural wastes as biosorbents. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 467-499.	12.8	168
606	Arsenic(V) biosorption by charred orange peel in aqueous environments. <i>International Journal of Phytoremediation</i> , 2016, 18, 442-449.	3.2	95
607	Review on nano zerovalent iron (nZVI): From synthesis to environmental applications. <i>Chemical Engineering Journal</i> , 2016, 287, 618-632.	13.0	739
608	Kinetics, thermodynamics and mechanistic studies of carbofuran removal using biochars from tea waste and rice husks. <i>Chemosphere</i> , 2016, 150, 781-789.	8.4	184
609	Comparison of single and competitive metal adsorption by pepper stem biochar. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 617-632.	2.7	36
610	Chemically modified biochar produced from conocarpus waste increases NO ₃ removal from aqueous solutions. <i>Environmental Geochemistry and Health</i> , 2016, 38, 511-521.	3.7	58
611	A review of biochar as a low-cost adsorbent for aqueous heavy metal removal. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 406-433.	12.8	994
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#	ARTICLE	IF	CITATIONS
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#	ARTICLE	IF	CITATIONS
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