

Yong Sik Ok

List of Publications by Year in descending order

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Version: 2024-02-01

743
papers

73,935
citations

354

139
h-index

1410

227
g-index

765
all docs

765
docs citations

765
times ranked

42459
citing authors

#	ARTICLE	IF	CITATIONS
1	Antibiotics and antibiotic resistance genes in agricultural soils: A systematic analysis. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 847-864.	6.6	61
2	Sorption of pharmaceuticals and personal care products (PPCPs) from water and wastewater by carbonaceous materials: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 727-766.	6.6	37
3	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.	6.6	25
4	Hydrometallurgical processes for heavy metals recovery from industrial sludges. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1022-1062.	6.6	57
5	Nanomaterials for sustainable remediation of chemical contaminants in water and soil. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 2611-2660.	6.6	45
6	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	9.4	245
7	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022, 38, 14-38.	2.6	73
8	A remediation approach to chromium-contaminated water and soil using engineered biochar derived from peanut shell. <i>Environmental Research</i> , 2022, 204, 112125.	3.7	57
9	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127396.	6.5	35
10	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
11	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.	4.2	27
12	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
13	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.	6.5	67
14	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
15	Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability. <i>Journal of Hazardous Materials</i> , 2022, 423, 127023.	6.5	46
16	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. <i>Chemosphere</i> , 2022, 286, 131935.	4.2	1
17	Engineered macroalgal and microalgal adsorbents: Synthesis routes and adsorptive performance on hazardous water contaminants. <i>Journal of Hazardous Materials</i> , 2022, 423, 126921.	6.5	27
18	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.	6.5	57

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19	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.	4.8	53
20	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	3.7	75
21	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.	3.9	26
22	Special issue on biochar technologies, production, and environmental applications in <i>Critical Reviews in Environmental Science & Technology</i> during 2017–2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3375-3383.	6.6	7
23	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.	3.9	44
24	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. <i>Environmental Pollution</i> , 2022, 292, 118412.	3.7	11
25	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.	6.5	7
26	Enhancing microbial lipids yield for biodiesel production by oleaginous yeast <i>Lipomyces starkeyi</i> fermentation: A review. <i>Bioresource Technology</i> , 2022, 344, 126294.	4.8	26
27	Removal of phosphate from water by paper mill sludge biochar. <i>Environmental Pollution</i> , 2022, 293, 118521.	3.7	25
28	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 154, 111814.	8.2	33
29	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
30	Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock. <i>Environmental Pollution</i> , 2022, 294, 118627.	3.7	8
31	A systematic review on adsorptive removal of hexavalent chromium from aqueous solutions: Recent advances. <i>Science of the Total Environment</i> , 2022, 809, 152055.	3.9	69
32	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment. <i>Bioresource Technology</i> , 2022, 346, 126582.	4.8	62
33	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.	4.2	13
34	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation–adsorption mechanism. <i>Journal of Hazardous Materials</i> , 2022, 427, 128117.	6.5	16
35	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	4.6	51
36	Wet wastes to bioenergy and biochar: A critical review with future perspectives. <i>Science of the Total Environment</i> , 2022, 817, 152921.	3.9	44

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37	Biochar alters chemical and microbial properties of microplastic-contaminated soil. <i>Environmental Research</i> , 2022, 209, 112807.	3.7	43
38	Effects of microplastics on the terrestrial environment: A critical review. <i>Environmental Research</i> , 2022, 209, 112734.	3.7	112
39	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
40	Surface interactions of oxytetracycline on municipal solid waste-derived biochar-montmorillonite composite. <i>Sustainable Environment</i> , 2022, 8, .	1.2	6
41	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. <i>Environmental Science & Technology</i> , 2022, 56, 4187-4198.	4.6	138
42	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.	2.6	22
43	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.	6.6	2
44	Valorization of animal manure via pyrolysis for bioenergy: A review. <i>Journal of Cleaner Production</i> , 2022, 343, 130965.	4.6	33
45	Effect of LDPE microplastics on chemical properties and microbial communities in soil. <i>Soil Use and Management</i> , 2022, 38, 1481-1492.	2.6	15
46	Arsenic bioaccumulation and biotransformation in aquatic organisms. <i>Environment International</i> , 2022, 163, 107221.	4.8	43
47	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022, 430, 128503.	6.5	45
48	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.	3.9	6
49	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.	3.9	8
50	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.	3.9	29
51	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar. <i>Chemosphere</i> , 2022, 299, 134426.	4.2	9
52	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.	3.9	3
53	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.	3.9	18
54	Environmental applications and risks of nanomaterials: An introduction to CREST publications during 2018-2021. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 3753-3762.	6.6	16

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55	Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement. <i>Water Research</i> , 2022, 218, 118468.	5.3	15
56	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.	8.2	30
57	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112515.	8.2	87
58	Engineered biochar as a potential adsorbent for carbon dioxide capture. , 2022, , 345-359.		1
59	Global arsenic dilemma and sustainability. <i>Journal of Hazardous Materials</i> , 2022, 436, 129197.	6.5	28
60	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
61	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. <i>Environmental Science & Technology</i> , 2022, 56, 8953-8963.	4.6	15
62	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. <i>Environmental Research</i> , 2022, 212, 113495.	3.7	31
63	Methanosarcina thermophila 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.	4.8	9
64	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth & Environment</i> , 2022, 3, 444-460.	12.2	233
65	Biochar affects greenhouse gas emissions in various environments: A critical review. <i>Land Degradation and Development</i> , 2022, 33, 3327-3342.	1.8	29
66	From waste to fertilizer: Nutrient recovery from wastewater by pristine and engineered biochars. <i>Chemosphere</i> , 2022, 306, 135310.	4.2	25
67	Impact of sulfur-impregnated biochar amendment on microbial communities and mercury methylation in contaminated sediment. <i>Journal of Hazardous Materials</i> , 2022, 438, 129464.	6.5	9
68	Bioaugmentation of Methanosarcina thermophila grown on biochar particles during semi-continuous thermophilic food waste anaerobic digestion under two different bioaugmentation regimes. <i>Bioresource Technology</i> , 2022, 360, 127590.	4.8	4
69	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.	3.9	17
70	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.	6.6	50
71	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.	6.6	18
72	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.	1.8	2

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73	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.	6.6	24
74	Recent advances in photodegradation of antibiotic residues in water. <i>Chemical Engineering Journal</i> , 2021, 405, 126806.	6.6	234
75	THE DARK SIDE OF BLACK GOLD: Ecotoxicological aspects of biochar and biochar-amended soils. <i>Journal of Hazardous Materials</i> , 2021, 403, 123833.	6.5	147
76	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.	4.6	98
77	Zn phytoextraction and recycling of alfalfa biomass as potential Zn-biofortified feed crop. <i>Science of the Total Environment</i> , 2021, 760, 143424.	3.9	13
78	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
79	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021, 757, 143820.	3.9	100
80	Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. <i>Environmental Pollution</i> , 2021, 272, 116009.	3.7	23
81	Recent progress in the development of biomass-derived nitrogen-doped porous carbon. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3703-3728.	5.2	167
82	Biochar-impacted sulfur cycling affects methylmercury phytoavailability in soils under different redox conditions. <i>Journal of Hazardous Materials</i> , 2021, 407, 124397.	6.5	21
83	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.	6.5	13
84	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. <i>ACS ES&T Water</i> , 2021, 1, 108-116.	2.3	7
85	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.	6.5	169
86	Biodegradable chito-beads replacing non-biodegradable microplastics for cosmetics. <i>Green Chemistry</i> , 2021, 23, 6953-6965.	4.6	37
87	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. <i>Sustainable Environment</i> , 2021, 7, .	1.2	8
88	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.	3.9	8
89	Engineered biochar – A sustainable solution for the removal of antibiotics from water. <i>Chemical Engineering Journal</i> , 2021, 405, 126926.	6.6	212
90	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.	5.3	8

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91	Carbon sequestration value of biosolids applied to soil: A global meta-analysis. <i>Journal of Environmental Management</i> , 2021, 284, 112008.	3.8	18
92	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. <i>Environment International</i> , 2021, 149, 106367.	4.8	276
93	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.	3.9	10
94	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. <i>Fuel</i> , 2021, 292, 120309.	3.4	34
95	Global Plastic Pollution Observation System to Aid Policy. <i>Environmental Science & Technology</i> , 2021, 55, 7770-7775.	4.6	59
96	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , 2021, 271, 129510.	4.2	33
97	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.	6.6	3
98	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.	3.2	35
99	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.	3.7	31
100	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.	3.9	100
101	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. <i>Environmental Research</i> , 2021, 197, 111091.	3.7	44
102	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
103	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021, 329, 124870.	4.8	79
104	Roles of Biochar and CO ₂ Curing in Sustainable Magnesia Cement-Based Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 8603-8610.	3.2	62
105	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.	3.9	3
106	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
107	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111029.	8.2	105
108	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. <i>Environmental Pollution</i> , 2021, 281, 117094.	3.7	76

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109	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.	3.9	4
110	Applied Machine Learning for Prediction of CO ₂ Adsorption on Biomass Waste-Derived Porous Carbons. <i>Environmental Science & Technology</i> , 2021, 55, 11925-11936.	4.6	132
111	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. <i>Journal of Cleaner Production</i> , 2021, 309, 127469.	4.6	35
112	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.	1.8	24
113	Fe(III) loaded chitosan-biochar composite fibers for the removal of phosphate from water. <i>Journal of Hazardous Materials</i> , 2021, 415, 125464.	6.5	88
114	Seafood safety data support the United Nations Sustainable Development Goals. <i>Chemosphere</i> , 2021, 277, 130221.	4.2	1
115	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.	4.8	40
116	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.	2.5	286
117	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.	3.9	38
118	Strong, Multifaceted Guanidinium-Based Adhesion of Bioorganic Nanoparticles to Wet Biological Tissue. <i>Jacs Au</i> , 2021, 1, 1399-1411.	3.6	16
119	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.	7.0	51
120	The COVID-19 pandemic necessitates a shift to a plastic circular economy. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 659-660.	12.2	92
121	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.	6.5	53
122	Recycling Polymeric Solid Wastes for Energy-efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , 2021, 17, e2102459.	5.2	11
123	Carbon precursors in coal tar: Extraction and preparation of carbon materials. <i>Science of the Total Environment</i> , 2021, 788, 147697.	3.9	15
124	Ni/Hydrochar Nanostructures Derived from Biomass as Catalysts for H ₂ Production through Aqueous-Phase Reforming of Methanol. <i>ACS Applied Nano Materials</i> , 2021, 4, 8958-8971.	2.4	6
125	Current status of biogas upgrading for direct biomethane use: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111343.	8.2	149
126	Biochars ages differently depending on the feedstock used for their production: Willow- versus sewage sludge-derived biochars. <i>Science of the Total Environment</i> , 2021, 789, 147458.	3.9	17

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127	GenX is not always a better fluorinated organic compound than PFOA: A critical review on aqueous phase treatability by adsorption and its associated cost. <i>Water Research</i> , 2021, 205, 117683.	5.3	20
128	Review on upgrading organic waste to value-added carbon materials for energy and environmental applications. <i>Journal of Environmental Management</i> , 2021, 296, 113128.	3.8	45
129	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021, 342, 126067.	4.8	44
130	Iron modification to silicon-rich biochar and alternative water management to decrease arsenic accumulation in rice (<i>Oryza sativa</i> L.). <i>Environmental Pollution</i> , 2021, 286, 117661.	3.7	16
131	Lead (Pb) sorption to hydrophobic and hydrophilic zeolites in the presence and absence of MTBE. <i>Journal of Hazardous Materials</i> , 2021, 420, 126528.	6.5	11
132	Recent trends in biochar integration with anaerobic fermentation: Win-win strategies in a closed-loop. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111371.	8.2	28
133	Mechanistic insights into the (im)mobilization of arsenic, cadmium, lead, and zinc in a multi-contaminated soil treated with different biochars. <i>Environment International</i> , 2021, 156, 106638.	4.8	61
134	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. <i>Journal of Environmental Management</i> , 2021, 298, 113530.	3.8	26
135	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
136	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. <i>Environmental Research</i> , 2021, 202, 111693.	3.7	46
137	A critical review on second- and third-generation bioethanol production using microwaved-assisted heating (MAH) pretreatment. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 152, 111679.	8.2	33
138	Progress on the lignocellulosic biomass pyrolysis for biofuel production toward environmental sustainability. <i>Fuel Processing Technology</i> , 2021, 223, 106997.	3.7	256
139	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
140	Scoring environment pillar in environmental, social, and governance (ESG) assessment. <i>Sustainable Environment</i> , 2021, 7, .	1.2	22
141	Structure-dependent surface catalytic degradation of cephalosporin antibiotics on the aged polyvinyl chloride microplastics. <i>Water Research</i> , 2021, 206, 117732.	5.3	25
142	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	5.2	306
143	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. <i>Science of the Total Environment</i> , 2021, 806, 151394.	3.9	2
144	Recycling Polymeric Solid Wastes for Energy-efficient Water Purification, Organic Distillation, and Oil Spill Cleanup (Small 46/2021). <i>Small</i> , 2021, 17, 2170244.	5.2	2

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145	Animal carcass burial management: implications for sustainable biochar use. <i>Applied Biological Chemistry</i> , 2021, 64, 91.	0.7	3
146	Mitigation of arsenic accumulation in rice: An agronomical, physico-chemical, and biological approach – A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 31-71.	6.6	56
147	Occurrence of contaminants in drinking water sources and the potential of biochar for water quality improvement: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 549-611.	6.6	143
148	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
149	A green biochar/iron oxide composite for methylene blue removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121286.	6.5	315
150	Halloysite nanoclay supported adsorptive removal of oxytetracycline antibiotic from aqueous media. <i>Journal of Hazardous Materials</i> , 2020, 384, 121301.	6.5	60
151	Tuneable functionalities in layered double hydroxide catalysts for thermochemical conversion of biomass-derived glucose to fructose. <i>Chemical Engineering Journal</i> , 2020, 383, 122914.	6.6	28
152	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
153	Enhancing copper binding property of compost-derived humic substances by biochar amendment: Further insight from two-dimensional correlation spectroscopy. <i>Journal of Hazardous Materials</i> , 2020, 390, 121128.	6.5	24
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308	Biochar-supported nZVI (nZVI/BC) for contaminant removal from soil and water: A critical review. <i>Journal of Hazardous Materials</i> , 2019, 373, 820-834.	6.5	307
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310	Biochar-based engineered composites for sorptive decontamination of water: A review. <i>Chemical Engineering Journal</i> , 2019, 372, 536-550.	6.6	264
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314	Decomposition of soil organic matter as affected by clay types, pedogenic oxides and plant residue addition rates. <i>Journal of Hazardous Materials</i> , 2019, 374, 11-19.	6.5	28
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323	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
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327	Dissolved organic matter characterization of biochars produced from different feedstock materials. <i>Journal of Environmental Management</i> , 2019, 233, 393-399.	3.8	104
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332	Release dynamics of As, Co, and Mo in a biochar treated soil under pre-definite redox conditions. <i>Science of the Total Environment</i> , 2019, 657, 686-695.	3.9	69
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334	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 387 Td (273, 251-258.	4.8	146
335	Redox-Mediated Biochar-Contaminant Interactions in Soil. , 2019, , 409-419.		5
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344	Characterization and ecotoxicological investigation of biochar produced via slow pyrolysis: Effect of feedstock composition and pyrolysis conditions. <i>Journal of Hazardous Materials</i> , 2019, 365, 178-185.	6.5	100
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448	Role of woody biochar and fungal-bacterial co-inoculation on enzyme activity and metal immobilization in serpentine soil. <i>Journal of Soils and Sediments</i> , 2017, 17, 665-673.	1.5	80
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521	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
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569	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.	2.9	178
570	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	39
571	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. <i>Critical Reviews in Environmental Science and Technology</i> , 2016, 46, 1498-1528.	6.6	105
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575	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
576	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.	2.7	18

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578	Contaminated Land, Ecological Assessment, and Remediation Conference Series (CLEAR 2014): environmental remediation with advanced materials. <i>Environmental Science and Pollution Research</i> , 2016, 23, 949-950.	2.7	0
579	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
580	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
581	Adsorption of Cd by peanut husks and peanut husk biochar from aqueous solutions. <i>Ecological Engineering</i> , 2016, 87, 240-245.	1.6	142
582	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
583	Cadmium stress in rice: toxic effects, tolerance mechanisms, and management: a critical review. <i>Environmental Science and Pollution Research</i> , 2016, 23, 17859-17879.	2.7	529
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591	Review on nano zerovalent iron (nZVI): From synthesis to environmental applications. <i>Chemical Engineering Journal</i> , 2016, 287, 618-632.	6.6	699
592	Kinetics, thermodynamics and mechanistic studies of carbofuran removal using biochars from tea waste and rice husks. <i>Chemosphere</i> , 2016, 150, 781-789.	4.2	169
593	Comparison of single and competitive metal adsorption by pepper stem biochar. <i>Archives of Agronomy and Soil Science</i> , 2016, 62, 617-632.	1.3	35
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597	Impact of soybean stover- and pine needle-derived biochars on Pb and As mobility, microbial community, and carbon stability in a contaminated agricultural soil. <i>Journal of Environmental Management</i> , 2016, 166, 131-139.	3.8	144
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600	Lead and copper immobilization in a shooting range soil using soybean stover- and pine needle-derived biochars: Chemical, microbial and spectroscopic assessments. <i>Journal of Hazardous Materials</i> , 2016, 301, 179-186.	6.5	178
601	Equilibrium and kinetic mechanisms of woody biochar on aqueous glyphosate removal. <i>Chemosphere</i> , 2016, 144, 2516-2521.	4.2	158
602	Speciation and bioavailability of lead in complementary medicines. <i>Science of the Total Environment</i> , 2016, 539, 304-312.	3.9	22
603	Effect of biochar on reclaimed tidal land soil properties and maize (<i>Zea mays</i> L.) response. <i>Chemosphere</i> , 2016, 142, 153-159.	4.2	173
604	Competitive adsorption of heavy metals onto sesame straw biochar in aqueous solutions. <i>Chemosphere</i> , 2016, 142, 77-83.	4.2	516
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608	Biochar-induced concomitant decrease in ammonia volatilization and increase in nitrogen use efficiency by wheat. <i>Chemosphere</i> , 2016, 142, 120-127.	4.2	224
609	Effects of Surface Iron Hydroxyl Group Site Densities on Arsenate Adsorption by Iron Oxide Nanocomposites. <i>Nanoscience and Nanotechnology Letters</i> , 2016, 8, 1020-1027.	0.4	11
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