

# Yong Sik Ok

## List of Publications by Year in descending order

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Version: 2024-02-01

743  
papers

73,935  
citations

299

139  
h-index

1190

228  
g-index

765  
all docs

765  
docs citations

765  
times ranked

38336  
citing authors

#	ARTICLE	IF	CITATIONS
1	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	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.	12.8	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.	12.8	25
4	Hydrometallurgical processes for heavy metals recovery from industrial sludges. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 1022-1062.	12.8	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.	12.8	45
6	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	19.3	245
7	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022, 38, 14-38.	4.9	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.	7.5	57
9	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022, 424, 127396.	12.4	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.	12.4	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.	8.2	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.	12.7	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.	12.4	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.	12.7	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.	12.4	46
16	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. <i>Chemosphere</i> , 2022, 286, 131935.	8.2	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.	12.4	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.	12.4	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.	9.6	53
20	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	7.5	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.	8.0	26
22	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	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.	8.0	44
24	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. <i>Environmental Pollution</i> , 2022, 292, 118412.	7.5	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.	12.4	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.	9.6	26
27	Removal of phosphate from water by paper mill sludge biochar. <i>Environmental Pollution</i> , 2022, 293, 118521.	7.5	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.	16.4	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.	12.4	83
30	Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock. <i>Environmental Pollution</i> , 2022, 294, 118627.	7.5	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.	8.0	69
32	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment. <i>Bioresource Technology</i> , 2022, 346, 126582.	9.6	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.	8.2	13
34	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidationâ€“adsorption mechanism. <i>Journal of Hazardous Materials</i> , 2022, 427, 128117.	12.4	16
35	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO <sub>2</sub> capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	9.0	51
36	Wet wastes to bioenergy and biochar: A critical review with future perspectives. <i>Science of the Total Environment</i> , 2022, 817, 152921.	8.0	44

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37	Biochar alters chemical and microbial properties of microplastic-contaminated soil. Environmental Research, 2022, 209, 112807.	7.5	43
38	Effects of microplastics on the terrestrial environment: A critical review. Environmental Research, 2022, 209, 112734.	7.5	112
39	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. Journal of Hazardous Materials, 2022, 430, 128479.	12.4	67
40	Surface interactions of oxytetracycline on municipal solid waste-derived biocharâ€‘montmorillonite composite. Sustainable Environment, 2022, 8, .	2.4	6
41	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. Environmental Science & Technology, 2022, 56, 4187-4198.	10.0	138
42	Combined effect of biochar and soil moisture on soil chemical properties and microbial community composition in microplasticâ€‘contaminated agricultural soil. Soil Use and Management, 2022, 38, 1446-1458.	4.9	22
43	New measures in 2022 to enhance the quality and reputation of Critical Reviews in Environmental Science and Technology journal. Critical Reviews in Environmental Science and Technology, 2022, 52, 3943-3946.	12.8	2
44	Valorization of animal manure via pyrolysis for bioenergy: A review. Journal of Cleaner Production, 2022, 343, 130965.	9.3	33
45	Effect of LDPE microplastics on chemical properties and microbial communities in soil. Soil Use and Management, 2022, 38, 1481-1492.	4.9	15
46	Arsenic bioaccumulation and biotransformation in aquatic organisms. Environment International, 2022, 163, 107221.	10.0	43
47	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. Journal of Hazardous Materials, 2022, 430, 128503.	12.4	45
48	Green synthesis of graphite-based photo-Fenton nanocatalyst from waste tar via a self-reduction and solvent-free strategy. Science of the Total Environment, 2022, 824, 153772.	8.0	6
49	Critical evaluation of biochar utilization effect on mitigating global warming in whole rice cropping boundary. Science of the Total Environment, 2022, 827, 154344.	8.0	8
50	Preparation and thermal conductivity enhancement of a paraffin wax-based composite phase change material doped with garlic stem biochar microparticles. Science of the Total Environment, 2022, 827, 154341.	8.0	29
51	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar. Chemosphere, 2022, 299, 134426.	8.2	9
52	Nitrogen transformation in slightly polluted surface water by a novel biofilm reactor: Long-term performance and microbial population characteristics. Science of the Total Environment, 2022, 829, 154623.	8.0	3
53	Mulched drip irrigation and biochar application reduce gaseous nitrogen emissions, but increase nitrogen uptake and peanut yield. Science of the Total Environment, 2022, 830, 154753.	8.0	18
54	Environmental applications and risks of nanomaterials: An introduction to CREST publications during 2018â€‘2021. Critical Reviews in Environmental Science and Technology, 2022, 52, 3753-3762.	12.8	16

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55	Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement. <i>Water Research</i> , 2022, 218, 118468.	11.3	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.	16.4	30
57	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112515.	16.4	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.	12.4	28
60	Customizing high-performance molten salt biochar from wood waste for CO <sub>2</sub> /N <sub>2</sub> separation. <i>Fuel Processing Technology</i> , 2022, 234, 107319.	7.2	23
61	Sustainable and Highly Efficient Recycling of Plastic Waste into Syngas via a Chemical Looping Scheme. <i>Environmental Science &amp; Technology</i> , 2022, 56, 8953-8963.	10.0	15
62	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. <i>Environmental Research</i> , 2022, 212, 113495.	7.5	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.	9.6	9
64	Waste-derived biochar for water pollution control and sustainable development. <i>Nature Reviews Earth &amp; Environment</i> , 2022, 3, 444-460.	29.7	233
65	Biochar affects greenhouse gas emissions in various environments: A critical review. <i>Land Degradation and Development</i> , 2022, 33, 3327-3342.	3.9	29
66	From waste to fertilizer: Nutrient recovery from wastewater by pristine and engineered biochars. <i>Chemosphere</i> , 2022, 306, 135310.	8.2	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.	12.4	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.	9.6	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.	8.0	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.	12.8	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.	12.8	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.	3.4	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.	12.8	24
74	Recent advances in photodegradation of antibiotic residues in water. <i>Chemical Engineering Journal</i> , 2021, 405, 126806.	12.7	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.	12.4	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.	9.3	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.	8.0	13
78	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021, 289, 125142.	9.3	56
79	Biochar industry to circular economy. <i>Science of the Total Environment</i> , 2021, 757, 143820.	8.0	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.	7.5	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.	10.3	167
82	Biochar-impacted sulfur cycling affects methylmercury phytoavailability in soils under different redox conditions. <i>Journal of Hazardous Materials</i> , 2021, 407, 124397.	12.4	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.	12.4	13
84	Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. <i>ACS ES&amp;T Water</i> , 2021, 1, 108-116.	4.6	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.	12.4	169
86	Biodegradable chito-beads replacing non-biodegradable microplastics for cosmetics. <i>Green Chemistry</i> , 2021, 23, 6953-6965.	9.0	37
87	Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. <i>Sustainable Environment</i> , 2021, 7, .	2.4	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.	8.0	8
89	Engineered biochar – A sustainable solution for the removal of antibiotics from water. <i>Chemical Engineering Journal</i> , 2021, 405, 126926.	12.7	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.	10.1	8

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91	Carbon sequestration value of biosolids applied to soil: A global meta-analysis. Journal of Environmental Management, 2021, 284, 112008.	7.8	18
92	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. Environment International, 2021, 149, 106367.	10.0	276
93	Rice genotype's responses to arsenic stress and cancer risk: The effects of integrated birnessite-modified rice hull biochar-water management applications. Science of the Total Environment, 2021, 768, 144531.	8.0	10
94	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. Fuel, 2021, 292, 120309.	6.4	34
95	Global Plastic Pollution Observation System to Aid Policy. Environmental Science & Technology, 2021, 55, 7770-7775.	10.0	59
96	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. Chemosphere, 2021, 271, 129510.	8.2	33
97	New measures in 2021 to increase the quality and reputation of the Critical Review in Environmental Science and Technology (CREST) journal. Critical Reviews in Environmental Science and Technology, 2021, 51, 1303-1305.	12.8	3
98	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. ACS Sustainable Chemistry and Engineering, 2021, 9, 6864-6874.	6.7	35
99	Adsorption and visible-light photocatalytic degradation of organic pollutants by functionalized biochar: Role of iodine doping and reactive species. Environmental Research, 2021, 197, 111026.	7.5	31
100	Arsenic biogeochemical cycling in paddy soil-rice system: Interaction with various factors, amendments and mineral nutrients. Science of the Total Environment, 2021, 773, 145040.	8.0	100
101	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. Environmental Research, 2021, 197, 111091.	7.5	44
102	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. Journal of Hazardous Materials, 2021, 412, 125213.	12.4	41
103	Insights into upstream processing of microalgae: A review. Bioresource Technology, 2021, 329, 124870.	9.6	79
104	Roles of Biochar and CO <sub>2</sub> Curing in Sustainable Magnesia Cement-Based Composites. ACS Sustainable Chemistry and Engineering, 2021, 9, 8603-8610.	6.7	62
105	Set sustainable goals for the Arctic gateway coordinated international governance is required to resist yet another tipping point. Science of the Total Environment, 2021, 776, 146003.	8.0	3
106	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. Journal of Hazardous Materials, 2021, 414, 125378.	12.4	155
107	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. Renewable and Sustainable Energy Reviews, 2021, 145, 111029.	16.4	105
108	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. Environmental Pollution, 2021, 281, 117094.	7.5	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.	8.0	4
110	Applied Machine Learning for Prediction of CO <sub>2</sub> Adsorption on Biomass Waste-Derived Porous Carbons. <i>Environmental Science &amp; Technology</i> , 2021, 55, 11925-11936.	10.0	132
111	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. <i>Journal of Cleaner Production</i> , 2021, 309, 127469.	9.3	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.	4.0	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.	12.4	88
114	Seafood safety data support the United Nations Sustainable Development Goals. <i>Chemosphere</i> , 2021, 277, 130221.	8.2	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.	9.6	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.	5.6	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.	8.0	38
118	Strong, Multifaceted Guanidinium-Based Adhesion of Bioorganic Nanoparticles to Wet Biological Tissue. <i>Jacs Au</i> , 2021, 1, 1399-1411.	7.9	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.	14.7	51
120	The COVID-19 pandemic necessitates a shift to a plastic circular economy. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 659-660.	29.7	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.	12.4	53
122	Recycling Polymeric Solid Wastes for Energy-efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , 2021, 17, e2102459.	10.0	11
123	Carbon precursors in coal tar: Extraction and preparation of carbon materials. <i>Science of the Total Environment</i> , 2021, 788, 147697.	8.0	15
124	Ni/Hydrochar Nanostructures Derived from Biomass as Catalysts for H <sub>2</sub> Production through Aqueous-Phase Reforming of Methanol. <i>ACS Applied Nano Materials</i> , 2021, 4, 8958-8971.	5.0	6
125	Current status of biogas upgrading for direct biomethane use: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 149, 111343.	16.4	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.	8.0	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.	11.3	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.	7.8	45
129	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021, 342, 126067.	9.6	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.	7.5	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.	12.4	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.	16.4	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.	10.0	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.	7.8	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.	12.7	167
136	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. <i>Environmental Research</i> , 2021, 202, 111693.	7.5	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.	16.4	33
138	Progress on the lignocellulosic biomass pyrolysis for biofuel production toward environmental sustainability. <i>Fuel Processing Technology</i> , 2021, 223, 106997.	7.2	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.	12.7	63
140	Scoring environment pillar in environmental, social, and governance (ESG) assessment. <i>Sustainable Environment</i> , 2021, 7, .	2.4	22
141	Structure-dependent surface catalytic degradation of cephalosporin antibiotics on the aged polyvinyl chloride microplastics. <i>Water Research</i> , 2021, 206, 117732.	11.3	25
142	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021, 2, 100180.	9.1	306
143	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. <i>Science of the Total Environment</i> , 2021, 806, 151394.	8.0	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.	10.0	2

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145	Animal carcass burial management: implications for sustainable biochar use. <i>Applied Biological Chemistry</i> , 2021, 64, 91.	1.9	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.	12.8	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.	12.8	143
148	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. <i>Science of the Total Environment</i> , 2020, 698, 134112.	8.0	139
149	A green biochar/iron oxide composite for methylene blue removal. <i>Journal of Hazardous Materials</i> , 2020, 384, 121286.	12.4	315
150	Halloysite nanoclay supported adsorptive removal of oxytetracycline antibiotic from aqueous media. <i>Journal of Hazardous Materials</i> , 2020, 384, 121301.	12.4	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.	12.7	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.	12.4	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.	12.4	24
154	Evaluating the efficiency of different natural clay sediments for the removal of chlortetracycline from aqueous solutions. <i>Journal of Hazardous Materials</i> , 2020, 384, 121500.	12.4	23
155	Competitive sorption and availability of coexisting heavy metals in mining-contaminated soil: Contrasting effects of mesquite and fishbone biochars. <i>Environmental Research</i> , 2020, 181, 108846.	7.5	67
156	Gasification biochar from biowaste (food waste and wood waste) for effective CO <sub>2</sub> adsorption. <i>Journal of Hazardous Materials</i> , 2020, 391, 121147.	12.4	132
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617	SMART biochar technology—A shifting paradigm towards advanced materials and healthcare research. <i>Environmental Technology and Innovation</i> , 2015, 4, 206-209.	6.1	206
618	Phosphorus Recovery and Reuse from Waste Streams. <i>Advances in Agronomy</i> , 2015, 131, 173-250.	5.2	89
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620	Distribution and Accumulative Pattern of Tetracyclines and Sulfonamides in Edible Vegetables of Cucumber, Tomato, and Lettuce. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 398-405.	5.2	149
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