

Yong Sik Ok

List of Publications by Year in Descending Order

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Version: 2024-04-10

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

714 papers	46,107 citations	110 h-index	179 g-index
765 ext. papers	58,944 ext. citations	8.8 avg, IF	8.36 L-index

#	Paper	IF	Citations
7 ¹⁴	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022 ,	10	8
7 ¹³	Wet wastes to bioenergy and biochar: A critical review with future perspectives.. <i>Science of the Total Environment</i> , 2022 , 817, 152921	10.2	4
7 ¹²	Biochar alters chemical and microbial properties of microplastic-contaminated soil.. <i>Environmental Research</i> , 2022 , 112807	7.9	5
7 ¹¹	Effects of microplastics on the terrestrial environment: A critical review.. <i>Environmental Research</i> , 2022 , 209, 112734	7.9	6
7 ¹⁰	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	12.8	3
7 ⁰⁹	Enhancing microbial lipids yield for biodiesel production by oleaginous yeast <i>Lipomyces starkeyi</i> fermentation: A review. <i>Bioresource Technology</i> , 2022 , 344, 126294	11	2
7 ⁰⁸	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. <i>Science of the Total Environment</i> , 2022 , 806, 151394	10.2	0
7 ⁰⁷	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 154, 111814	16.2	5
7 ⁰⁶	Biodegradation and effects of EDDS and NTA on Zn in soil solution during phytoextraction by alfalfa in soils with three Zn levels.. <i>Chemosphere</i> , 2022 , 133519	8.4	2
7 ⁰⁵	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	11	5
7 ⁰⁴	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. <i>Environmental Pollution</i> , 2022 , 292, 118412	9.3	1
7 ⁰³	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	12.8	3
7 ⁰²	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022 , 1-51	16.1	58
7 ⁰¹	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022 ,	3.1	14
7 ⁰⁰	Pyrolysis of waste oils for the production of biofuels: A critical review. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127396	12.8	7
6 ⁹⁹	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	12.8	9
6 ⁹⁸	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	6

697	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	14.7	6
696	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	12.8	7
695	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	14.7	8
694	Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127023	12.8	8
693	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. <i>Chemosphere</i> , 2022 , 286, 131935	8.4	
692	Engineered macroalgal and microalgal adsorbents: Synthesis routes and adsorptive performance on hazardous water contaminants. <i>Journal of Hazardous Materials</i> , 2022 , 423, 126921	12.8	6
691	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	12.8	16
690	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	8
689	Valorization of animal manure via pyrolysis for bioenergy: A review. <i>Journal of Cleaner Production</i> , 2022 , 343, 130965	10.3	4
688	Arsenic bioaccumulation and biotransformation in aquatic organisms.. <i>Environment International</i> , 2022 , 163, 107221	12.9	2
687	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128503	12.8	0
686	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	10.2	2
685	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	10.2	2
684	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 , 154341	10.2	0
683	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar.. <i>Chemosphere</i> , 2022 , 299, 134426	8.4	0
682	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 , 154623	10.2	0
681	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 , 154753	10.2	1
680	Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement.. <i>Water Research</i> , 2022 , 218, 118468	12.5	0

679	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	16.2	3
678	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 163, 112515	16.2	7
677	Engineered biochar as a potential adsorbent for carbon dioxide capture 2022 , 345-359		
676	Global Arsenic dilemma and sustainability. <i>Journal of Hazardous Materials</i> , 2022 , 129197	12.8	1
675	Customizing high-performance molten salt biochar from wood waste for CO ₂ /N ₂ separation. <i>Fuel Processing Technology</i> , 2022 , 234, 107319	7.2	0
674	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. <i>Environmental Research</i> , 2022 , 113495	7.9	2
673	Removal of phosphate from water by paper mill sludge biochar. <i>Environmental Pollution</i> , 2021 , 293, 118521	9.3	5
672	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup (Small 46/2021). <i>Small</i> , 2021 , 17, 2170244	11	2
671	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> , 2021 , 425, 127906	12.8	17
670	Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock. <i>Environmental Pollution</i> , 2021 , 294, 118627	9.3	1
669	A systematic review on adsorptive removal of hexavalent chromium from aqueous solutions: Recent advances. <i>Science of the Total Environment</i> , 2021 , 809, 152055	10.2	5
668	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment.. <i>Bioresource Technology</i> , 2021 , 126582	11	11
667	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism.. <i>Journal of Hazardous Materials</i> , 2021 , 427, 128117	12.8	3
666	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2021 , 207, 112179	7.9	12
665	State-of-the-art of the pyrolysis and co-pyrolysis of food waste: Progress and challenges. <i>Science of the Total Environment</i> , 2021 , 151170	10.2	4
664	Structure-dependent surface catalytic degradation of cephalosporin antibiotics on the aged polyvinyl chloride microplastics. <i>Water Research</i> , 2021 , 206, 117732	12.5	6
663	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021 , 2, 100180	17.8	37
662	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> , 2021 , 151120	10.2	9

661	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	11.8	4
660	Carbon sequestration value of biosolids applied to soil: A global meta-analysis. <i>Journal of Environmental Management</i> , 2021 , 284, 112008	7.9	6
659	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. <i>Environment International</i> , 2021 , 149, 106367	12.9	74
658	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	10.2	4
657	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. <i>Fuel</i> , 2021 , 292, 120309	7.1	15
656	Global Plastic Pollution Observation System to Aid Policy. <i>Environmental Science & Technology</i> , 2021 , 55, 7770-7775	10.3	15
655	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. <i>Chemosphere</i> , 2021 , 271, 129510	8.4	12
654	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	8.3	14
653	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	7.9	9
652	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	10.2	32
651	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. <i>Environmental Research</i> , 2021 , 197, 111091	7.9	10
650	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. <i>Journal of Hazardous Materials</i> , 2021 , 412, 125213	12.8	14
649	Insights into upstream processing of microalgae: A review. <i>Bioresource Technology</i> , 2021 , 329, 124870	11	28
648	Roles of Biochar and CO ₂ Curing in Sustainable Magnesia Cement-Based Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 8603-8610	8.3	19
647	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	10.2	1
646	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	12.8	55
645	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 145, 111029	16.2	24
644	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. <i>Environmental Pollution</i> , 2021 , 281, 117094	9.3	24

- 643 Magnetic biochar production alters the molecular characteristics and biological response of pyrolysis volatile-derived water-soluble organic matter. *Science of the Total Environment*, **2021**, 778, 146142 ^{10.2} 3
- 642 Selective Aerobic Upgrading of Lignin-Derived Compound Using a Recyclable Dual-Functional TPO-Loaded Cu-BTC Catalyst. *Waste and Biomass Valorization*, **2021**, 12, 673-685 3.2 1
- 641 Engineered/designer hierarchical porous carbon materials for organic pollutant removal from water and wastewater: A critical review. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 2295-2328 11.1 6
- 640 Recent advances in photodegradation of antibiotic residues in water. *Chemical Engineering Journal*, **2021**, 405, 126806 14.7 78
- 639 THE DARK SIDE OF BLACK GOLD: Ecotoxicological aspects of biochar and biochar-amended soils. *Journal of Hazardous Materials*, **2021**, 403, 123833 12.8 52
- 638 Multi-task prediction and optimization of hydrochar properties from high-moisture municipal solid waste: Application of machine learning on waste-to-resource. *Journal of Cleaner Production*, **2021**, 278, 123928 10.3 34
- 637 Zn phytoextraction and recycling of alfalfa biomass as potential Zn-biofortified feed crop. *Science of the Total Environment*, **2021**, 760, 143424 10.2 7
- 636 Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. *Journal of Cleaner Production*, **2021**, 289, 125142 10.3 25
- 635 Biochar industry to circular economy. *Science of the Total Environment*, **2021**, 757, 143820 10.2 43
- 634 Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. *Environmental Pollution*, **2021**, 272, 116009 9.3 10
- 633 Recent progress in the development of biomass-derived nitrogen-doped porous carbon. *Journal of Materials Chemistry A*, **2021**, 9, 3703-3728 13 69
- 632 Biochar-impacted sulfur cycling affects methylmercury phytoavailability in soils under different redox conditions. *Journal of Hazardous Materials*, **2021**, 407, 124397 12.8 9
- 631 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. *Journal of Hazardous Materials*, **2021**, 405, 124188 12.8 5
- 630 Spectroscopic and Modeling Investigation of Sorption of Pb(II) to ZSM-5 Zeolites. *ACS ES&T Water*, **2021**, 1, 108-116 3
- 629 Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils - To mobilize or to immobilize or to degrade?. *Journal of Hazardous Materials*, **2021**, 401, 123892 12.8 54
- 628 Biodegradable chito-beads replacing non-biodegradable microplastics for cosmetics. *Green Chemistry*, **2021**, 23, 6953-6965 10 9
- 627 Syntrophic interactions in anaerobic digestion: how biochar properties affect them?. *Sustainable Environment*, **2021**, 7, 1945282 1
- 626 Molecular characterization and environmental impacts of water-soluble organic compounds of bio-oil from the thermochemical treatment of domestic sewage sludge. *Science of the Total Environment*, **2021**, 756, 144050 10.2 1

625	Engineered biochar: A sustainable solution for the removal of antibiotics from water. <i>Chemical Engineering Journal</i> , 2021 , 405, 126926	14.7	75
624	Applied Machine Learning for Prediction of CO Adsorption on Biomass Waste-Derived Porous Carbons. <i>Environmental Science & Technology</i> , 2021 , 55, 11925-11936	10.3	19
623	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. <i>Journal of Cleaner Production</i> , 2021 , 309, 127469	10.3	11
622	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	5.8	10
621	Fe(III) loaded chitosan-biochar composite fibers for the removal of phosphate from water. <i>Journal of Hazardous Materials</i> , 2021 , 415, 125464	12.8	31
620	Seafood safety data support the United Nations Sustainable Development Goals. <i>Chemosphere</i> , 2021 , 277, 130221	8.4	0
619	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	11	14
618	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	5.6	38
617	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	10.2	9
616	Strong, Multifaceted Guanidinium-Based Adhesion of Bioorganic Nanoparticles to Wet Biological Tissue. <i>JACS Au</i> , 2021 , 1, 1399-1411		3
615	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	14.3	5
614	The COVID-19 pandemic necessitates a shift to a plastic circular economy. <i>Nature Reviews Earth & Environment</i> , 2021 , 1-2	30.2	21
613	A remediation approach to chromium-contaminated water and soil using engineered biochar derived from peanut shell. <i>Environmental Research</i> , 2021 , 204, 112125	7.9	10
612	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	12.8	17
611	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. <i>Small</i> , 2021 , 17, e2102459	11	2
610	Carbon precursors in coal tar: Extraction and preparation of carbon materials. <i>Science of the Total Environment</i> , 2021 , 788, 147697	10.2	0
609	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	5.6	0
608	Current status of biogas upgrading for direct biomethane use: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 149, 111343	16.2	36

607	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	10.2	2
606	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	12.5	2
605	Review on upgrading organic waste to value-added carbon materials for energy and environmental applications. <i>Journal of Environmental Management</i> , 2021 , 296, 113128	7.9	13
604	Fast hydrolysis of biomass Conversion: A comparative review. <i>Bioresource Technology</i> , 2021 , 342, 126067	11	6
603	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	9.3	1
602	Lead (Pb) sorption to hydrophobic and hydrophilic zeolites in the presence and absence of MTBE. <i>Journal of Hazardous Materials</i> , 2021 , 420, 126528	12.8	1
601	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	16.2	11
600	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	12.9	12
599	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	7.9	4
598	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. <i>Chemical Engineering Journal</i> , 2021 , 424, 130387	14.7	65
597	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. <i>Environmental Research</i> , 2021 , 202, 111693	7.9	15
596	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	16.2	8
595	Progress on the lignocellulosic biomass pyrolysis for biofuel production toward environmental sustainability. <i>Fuel Processing Technology</i> , 2021 , 223, 106997	7.2	62
594	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	14.7	14
593	Scoring environment pillar in environmental, social, and governance (ESG) assessment. <i>Sustainable Environment</i> , 2021 , 7, 1960097		4
592	Animal carcass burial management: implications for sustainable biochar use.. <i>Applied Biological Chemistry</i> , 2021 , 64, 91	2.9	
591	South Korea's big move to hydrogen society. <i>Cogent Environmental Science</i> , 2020 , 6, 1856459	1.6	1
590	Redox-induced mobilization of Ag, Sb, Sn, and Tl in the dissolved, colloidal and solid phase of a biochar-treated and un-treated mining soil. <i>Environment International</i> , 2020 , 140, 105754	12.9	60

589	Role of Selenoproteins in Redox Regulation of Signaling and the Antioxidant System: A Review. <i>Antioxidants</i> , 2020 , 9,	7.1	39
588	Optimizing extraction procedures for better removal of potentially toxic elements during EDTA-assisted soil washing. <i>Journal of Soils and Sediments</i> , 2020 , 20, 3417-3426	3.4	5
587	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. <i>Bioresource Technology</i> , 2020 , 312, 123613	11	124
586	A comprehensive review of engineered biochar: Production, characteristics, and environmental applications. <i>Journal of Cleaner Production</i> , 2020 , 270, 122462	10.3	97
585	Enhanced sonophotocatalytic degradation of bisphenol A using bimetal sulfide-intercalated MXenes, 2D/2D nanocomposite. <i>Separation and Purification Technology</i> , 2020 , 250, 117178	8.3	21
584	Thermally treated zeolitic imidazolate framework-8 (ZIF-8) for visible light photocatalytic degradation of gaseous formaldehyde. <i>Chemical Science</i> , 2020 , 11, 6670-6681	9.4	54
583	Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. <i>Journal of Cleaner Production</i> , 2020 , 268, 122378	10.3	5
582	Microbe mediated immobilization of arsenic in the rice rhizosphere after incorporation of silica impregnated biochar composites. <i>Journal of Hazardous Materials</i> , 2020 , 398, 123096	12.8	23
581	Processed Bamboo as a Novel Formaldehyde-Free High-Performance Furniture Biocomposite. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 30824-30832	9.5	14
580	Photo-aging of polyvinyl chloride microplastic in the presence of natural organic acids. <i>Water Research</i> , 2020 , 183, 116082	12.5	49
579	Carbon dioxide capture in biochar produced from pine sawdust and paper mill sludge: Effect of porous structure and surface chemistry. <i>Science of the Total Environment</i> , 2020 , 739, 139845	10.2	34
578	Microplastics as pollutants in agricultural soils. <i>Environmental Pollution</i> , 2020 , 265, 114980	9.3	137
577	Nanostructured chitosan/molecular sieve-4A an emergent material for the synergistic adsorption of radioactive major pollutants cesium and strontium. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122494 ^{12.8}	12.8	29
576	Biochar enhanced thermophilic anaerobic digestion of food waste: Focusing on biochar particle size, microbial community analysis and pilot-scale application. <i>Energy Conversion and Management</i> , 2020 , 209, 112654	10.6	61
575	The ratio of H/C is a useful parameter to predict adsorption of the herbicide metolachlor to biochars. <i>Environmental Research</i> , 2020 , 184, 109324	7.9	19
574	Biochar technology in wastewater treatment: A critical review. <i>Chemosphere</i> , 2020 , 252, 126539	8.4	209
573	Spherical Superstructure of Boron Nitride Nanosheets Derived from Boron-Containing Metal-Organic Frameworks. <i>Journal of the American Chemical Society</i> , 2020 , 142, 8755-8762	16.4	43
572	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 6990-7001	8.3	31

571	Soil and geologic formations as antidotes for CO ₂ sequestration?. <i>Soil Use and Management</i> , 2020 , 36, 355-357	3.1	7
570	Red mud-enhanced magnesium phosphate cement for remediation of Pb and As contaminated soil. <i>Journal of Hazardous Materials</i> , 2020 , 400, 123317	12.8	55
569	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. <i>Chemical Engineering Journal</i> , 2020 , 401, 126136	14.7	78
568	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. <i>Angewandte Chemie</i> , 2020 , 132, 19831-19836	3.6	
567	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. <i>Angewandte Chemie - International Edition</i> , 2020 , 59, 19663-19668	16.4	17
566	COVID-19's unsustainable waste management. <i>Science</i> , 2020 , 368, 1438	33.3	77
565	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. <i>Nature Reviews Earth & Environment</i> , 2020 , 1, 366-381	30.2	171
564	Scavenger-free and self-powered photocathodic sensing system for aqueous hydrogen peroxide monitoring by CuO/ZnO nanostructure. <i>Chemical Engineering Science</i> , 2020 , 226, 115886	4.4	6
563	Biochar as green additives in cement-based composites with carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2020 , 258, 120678	10.3	93
562	Quantitative source tracking of heavy metals contained in urban road deposited sediments. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122362	12.8	35
561	Recent advances in volatile organic compounds abatement by catalysis and catalytic hybrid processes: A critical review. <i>Science of the Total Environment</i> , 2020 , 719, 137405	10.2	57
560	Preliminary techno-economic analysis of biodiesel production over solid-biochar. <i>Bioresource Technology</i> , 2020 , 306, 123086	11	33
559	The conversion of sewage sludge to biochar as a sustainable tool of PAHs exposure reduction during agricultural utilization of sewage sludges. <i>Journal of Hazardous Materials</i> , 2020 , 392, 122416	12.8	20
558	Sustainable gasification biochar as a high efficiency adsorbent for CO ₂ capture: A facile method to designer biochar fabrication. <i>Renewable and Sustainable Energy Reviews</i> , 2020 , 124, 109785	16.2	51
557	Coconut-fiber biochar reduced the bioavailability of lead but increased its translocation rate in rice plants: Elucidation of immobilization mechanisms and significance of iron plaque barrier on roots using spectroscopic techniques. <i>Journal of Hazardous Materials</i> , 2020 , 389, 122117	12.8	38
556	Be cautious applying carbon-fluorine bonds in drug delivery. <i>Chemosphere</i> , 2020 , 248, 125971	8.4	
555	Applications of carbonaceous adsorbents in the remediation of polycyclic aromatic hydrocarbon-contaminated sediments: A review. <i>Journal of Cleaner Production</i> , 2020 , 255, 120263	10.3	34
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393	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	12.8	66
392	Biochar-mediated sorption of antibiotics in pig manure. <i>Journal of Hazardous Materials</i> , 2019 , 364, 663-670	10.8	41

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390	Integrated adsorption and photocatalytic degradation of volatile organic compounds (VOCs) using carbon-based nanocomposites: A critical review. <i>Chemosphere</i> , 2019 , 218, 845-859	8.4	165
389	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. <i>Environment International</i> , 2019 , 122, 357-362	12.9	111
388	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019 , 337, 536-554	6.7	357
387	Heart developmental toxicity by carbon black waste generated from oil refinery on zebrafish embryos (<i>Danio rerio</i>): Combined toxicity on heart function by nickel and vanadium. <i>Journal of Hazardous Materials</i> , 2019 , 363, 127-137	12.8	17
386	A comparison of figure of merit (FOM) for various materials in adsorptive removal of benzene under ambient temperature and pressure. <i>Environmental Research</i> , 2019 , 168, 96-108	7.9	51
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374	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018 , 314, 52-61	4.3	63

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364	Trace element dynamics of biosolids-derived microbeads. <i>Chemosphere</i> , 2018 , 199, 331-339	8.4	40
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3 ¹²	Potential of Biochar to Immobilize Nickel in Contaminated Soils 2018 , 293-318		2
3 ¹¹	Alginate-based composites for environmental applications: A critical review. <i>Critical Reviews in Environmental Science and Technology</i> , 2018 , 49, 318-356	11.1	127
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