Yong Sik Ok

List of Publications by Year in Descending Order

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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
714	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO2 capture. *Green Chemistry*, **2022**,	10	8
713	Wet wastes to bioenergy and biochar: A critical review with future perspectives.. *Science of the Total Environment*, **2022**, 817, 152921	10.2	4
712	Biochar alters chemical and microbial properties of microplastic-contaminated soil.. *Environmental Research*, **2022**, 112807	7.9	5
711	Effects of microplastics on the terrestrial environment: A critical review.. *Environmental Research*, **2022**, 209, 112734	7.9	6
710	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	12.8	3
709	Enhancing microbial lipids yield for biodiesel production by oleaginous yeast Lipomyces starkeyi fermentation: A review. *Bioresource Technology*, **2022**, 344, 126294	11	2
708	Modeling nitrous oxide emissions in membrane bioreactors: Advancements, challenges and perspectives. *Science of the Total Environment*, **2022**, 806, 151394	10.2	0
707	Co-liquefaction of mixed biomass feedstocks for bio-oil production: A critical review. *Renewable and Sustainable Energy Reviews*, **2022**, 154, 111814	16.2	5
706	Biodegradation and effects of EDDS and NTA on Zn in soil solution during phytoextraction by alfalfa in soils with three Zn levels.. *Chemosphere*, **2022**, 133519	8.4	2
705	Co-pyrolysis of microalgae and other biomass wastes for the production of high-quality bio-oil: Progress and prospective. *Bioresource Technology*, **2022**, 344, 126096	11	5
704	Enhanced removal of ammonium from water using sulfonated reed waste biochar-A lab-scale investigation. *Environmental Pollution*, **2022**, 292, 118412	9.3	1
703	A sensitive environmental forensic method that determines bisphenol S and A exposure within receipt-handling through fingerprint analysis. *Journal of Hazardous Materials*, **2022**, 424, 127410	12.8	3
702	Multifunctional applications of biochar beyond carbon storage. *International Materials Reviews*, **2022**, 1-51	16.1	58
701	Biochar composites: Emerging trends, field successes and sustainability implications. *Soil Use and Management*, **2022**,	3.1	14
700	Pyrolysis of waste oils for the production of biofuels: A critical review. *Journal of Hazardous Materials*, **2022**, 424, 127396	12.8	7
699	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. *Journal of Hazardous Materials*, **2022**, 421, 126647	12.8	9
698	Microwave-assisted gasification of biomass for sustainable and energy-efficient biohydrogen and biosyngas production: A state-of-the-art review. *Chemosphere*, **2022**, 287, 132014	8.4	6

697	Green remediation of benzene contaminated groundwater using persulfate activated by biochar composite loaded with iron sulfide minerals. *Chemical Engineering Journal*, **2022**, 429, 132292	14.7	6
696	National-scale distribution of micro(meso)plastics in farmland soils across China: Implications for environmental impacts. *Journal of Hazardous Materials*, **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. *Chemical Engineering Journal*, **2022**, 428, 131967	14.7	8
694	Emerging waste valorisation techniques to moderate the hazardous impacts, and their path towards sustainability. *Journal of Hazardous Materials*, **2022**, 423, 127023	12.8	8
693	Selective copper recovery from ammoniacal waste streams using a systematic biosorption process. *Chemosphere*, **2022**, 286, 131935	8.4	
692	Engineered macroalgal and microalgal adsorbents: Synthesis routes and adsorptive performance on hazardous water contaminants. *Journal of Hazardous Materials*, **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. *Journal of Hazardous Materials*, **2022**, 422, 126808	12.8	16
690	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. *Environmental Science & Technology*, **2022**,	10.3	8
689	Valorization of animal manure via pyrolysis for bioenergy: A review. *Journal of Cleaner Production*, **2022**, 343, 130965	10.3	4
688	Arsenic bioaccumulation and biotransformation in aquatic organisms.. *Environment International*, **2022**, 163, 107221	12.9	2
687	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. *Journal of Hazardous Materials*, **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.. *Science of the Total Environment*, **2022**, 824, 153772	10.2	2
685	Critical evaluation of biochar utilization effect on mitigating global warming in whole rice cropping boundary.. *Science of the Total Environment*, **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.. *Science of the Total Environment*, **2022**, 154341	10.2	0
683	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar.. *Chemosphere*, **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.. *Science of the Total Environment*, **2022**, 154623	10.2	0
681	Mulched drip irrigation and biochar application reduce gaseous nitrogen emissions, but increase nitrogen uptake and peanut yield.. *Science of the Total Environment*, **2022**, 154753	10.2	1
680	Nanoplastic stimulates metalloid leaching from historically contaminated soil via indirect displacement.. *Water Research*, **2022**, 218, 118468	12.5	0

679	Recent advancements in sustainable upcycling of solid waste into porous carbons for carbon dioxide capture. *Renewable and Sustainable Energy Reviews*, **2022**, 162, 112413	16.2	3
678	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. *Renewable and Sustainable Energy Reviews*, **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. *Journal of Hazardous Materials*, **2022**, 129197	12.8	1
675	Customizing high-performance molten salt biochar from wood waste for CO2/N2 separation. *Fuel Processing Technology*, **2022**, 234, 107319	7.2	0
674	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. *Environmental Research*, **2022**, 113495	7.9	2
673	Removal of phosphate from water by paper mill sludge biochar. *Environmental Pollution*, **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). *Small*, **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. *Journal of Hazardous Materials*, **2021**, 425, 127906	12.8	17
670	Cu phytoextraction and biomass utilization as essential trace element feed supplements for livestock. *Environmental Pollution*, **2021**, 294, 118627	9.3	1
669	A systematic review on adsorptive removal of hexavalent chromium from aqueous solutions: Recent advances. *Science of the Total Environment*, **2021**, 809, 152055	10.2	5
668	Pyrolysis of waste surgical masks into liquid fuel and its life-cycle assessment.. *Bioresource Technology*, **2021**, 126582	11	11
667	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism.. *Journal of Hazardous Materials*, **2021**, 427, 128117	12.8	3
666	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. *Environmental Research*, **2021**, 207, 112179	7.9	12
665	State-of-the-art of the pyrolysis and co-pyrolysis of food waste: Progress and challenges. *Science of the Total Environment*, **2021**, 151170	10.2	4
664	Structure-dependent surface catalytic degradation of cephalosporin antibiotics on the aged polyvinyl chloride microplastics. *Water Research*, **2021**, 206, 117732	12.5	6
663	Technologies and perspectives for achieving carbon neutrality. *Innovation(China)*, **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. *Science of the Total Environment*, **2021**, 151120	10.2	9

661	Development of a novel fluorescent biosensor for dynamic monitoring of metabolic methionine redox status in cells and tissues. *Biosensors and Bioelectronics*, **2021**, 178, 113031	11.8	4
660	Carbon sequestration value of biosolids applied to soil: A global meta-analysis. *Journal of Environmental Management*, **2021**, 284, 112008	7.9	6
659	Interactions between microplastics, pharmaceuticals and personal care products: Implications for vector transport. *Environment International*, **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. *Science of the Total Environment*, **2021**, 768, 144531	10.2	4
657	Solid biofuel production from spent coffee ground wastes: Process optimisation, characterisation and kinetic studies. *Fuel*, **2021**, 292, 120309	7.1	15
656	Global Plastic Pollution Observation System to Aid Policy. *Environmental Science & Technology*, **2021**, 55, 7770-7775	10.3	15
655	Catalytic level identification of ZSM-5 on biomass pyrolysis and aromatic hydrocarbon formation. *Chemosphere*, **2021**, 271, 129510	8.4	12
654	Biochar Surface Functionality Plays a Vital Role in (Im)Mobilization and Phytoavailability of Soil Vanadium. *ACS Sustainable Chemistry and Engineering*, **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. *Environmental Research*, **2021**, 197, 111026	7.9	9
652	Arsenic biogeochemical cycling in paddy soil-rice system: Interaction with various factors, amendments and mineral nutrients. *Science of the Total Environment*, **2021**, 773, 145040	10.2	32
651	Carbon-based adsorbents for fluoroquinolone removal from water and wastewater: A critical review. *Environmental Research*, **2021**, 197, 111091	7.9	10
650	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. *Journal of Hazardous Materials*, **2021**, 412, 125213	12.8	14
649	Insights into upstream processing of microalgae: A review. *Bioresource Technology*, **2021**, 329, 124870	11	28
648	Roles of Biochar and CO2 Curing in Sustainable Magnesia Cement-Based Composites. *ACS Sustainable Chemistry and Engineering*, **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. *Science of the Total Environment*, **2021**, 776, 146003	10.2	1
646	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. *Journal of Hazardous Materials*, **2021**, 414, 125378	12.8	55
645	A critical review on biochar-based engineered hierarchical porous carbon for capacitive charge storage. *Renewable and Sustainable Energy Reviews*, **2021**, 145, 111029	16.2	24
644	Biochar heavy metal removal in aqueous solution depends on feedstock type and pyrolysis purging gas. *Environmental Pollution*, **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. *Chemical Engineering Journal*, **2021**, 405, 126926	14.7	75
624	Applied Machine Learning for Prediction of CO Adsorption on Biomass Waste-Derived Porous Carbons. *Environmental Science & Technology*, **2021**, 55, 11925-11936	10.3	19
623	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. *Journal of Cleaner Production*, **2021**, 309, 127469	10.3	11
622	The role of soils in the disposition, sequestration and decontamination of environmental contaminants. *Philosophical Transactions of the Royal Society B: Biological Sciences*, **2021**, 376, 20200177	5.8	10
621	Fe(III) loaded chitosan-biochar composite fibers for the removal of phosphate from water. *Journal of Hazardous Materials*, **2021**, 415, 125464	12.8	31
620	Seafood safety data support the United Nations Sustainable Development Goals. *Chemosphere*, **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. *Bioresource Technology*, **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. *GCB Bioenergy*, **2021**, 13, 1731	5.6	38
617	Co-hydrothermal carbonization of swine and chicken manure: Influence of cross-interaction on hydrochar and liquid characteristics. *Science of the Total Environment*, **2021**, 786, 147381	10.2	9
616	Strong, Multifaceted Guanidinium-Based Adhesion of Bioorganic Nanoparticles to Wet Biological Tissue. *Jacs Au*, **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. *Advances in Colloid and Interface Science*, **2021**, 297, 102537	14.3	5
614	The COVID-19 pandemic necessitates a shift to a plastic circular economy. *Nature Reviews Earth & Environment*, **2021**, 1-2	30.2	21
613	A remediation approach to chromium-contaminated water and soil using engineered biochar derived from peanut shell. *Environmental Research*, **2021**, 204, 112125	7.9	10
612	COVID-19 discarded disposable gloves as a source and a vector of pollutants in the environment. *Journal of Hazardous Materials*, **2021**, 417, 125938	12.8	17
611	Recycling Polymeric Solid Wastes for Energy-Efficient Water Purification, Organic Distillation, and Oil Spill Cleanup. *Small*, **2021**, 17, e2102459	11	2
610	Carbon precursors in coal tar: Extraction and preparation of carbon materials. *Science of the Total Environment*, **2021**, 788, 147697	10.2	0
609	Ni/Hydrochar Nanostructures Derived from Biomass as Catalysts for H2 Production through Aqueous-Phase Reforming of Methanol. *ACS Applied Nano Materials*, **2021**, 4, 8958-8971	5.6	0
608	Current status of biogas upgrading for direct biomethane use: A review. *Renewable and Sustainable Energy Reviews*, **2021**, 149, 111343	16.2	36

607	Biochars ages differently depending on the feedstock used for their production: Willow- versus sewage sludge-derived biochars. *Science of the Total Environment*, **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. *Water Research*, **2021**, 205, 117683	12.5	2
605	Review on upgrading organic waste to value-added carbon materials for energy and environmental applications. *Journal of Environmental Management*, **2021**, 296, 113128	7.9	13
604	Fast hydropyrolysis of biomass Conversion: A comparative review. *Bioresource Technology*, **2021**, 342, 126067	11	6
603	Iron modification to silicon-rich biochar and alternative water management to decrease arsenic accumulation in rice (Oryza sativa L.). *Environmental Pollution*, **2021**, 286, 117661	9.3	1
602	Lead (Pb) sorption to hydrophobic and hydrophilic zeolites in the presence and absence of MTBE. *Journal of Hazardous Materials*, **2021**, 420, 126528	12.8	1
601	Recent trends in biochar integration with anaerobic fermentation: Win-win strategies in a closed-loop. *Renewable and Sustainable Energy Reviews*, **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. *Environment International*, **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. *Journal of Environmental Management*, **2021**, 298, 113530	7.9	4
598	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. *Chemical Engineering Journal*, **2021**, 424, 130387	14.7	65
597	New mechanistic insight into rapid adsorption of pharmaceuticals from water utilizing activated biochar. *Environmental Research*, **2021**, 202, 111693	7.9	15
596	A critical review on second- and third-generation bioethanol production using microwaved-assisted heating (MAH) pretreatment. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111679	16.2	8
595	Progress on the lignocellulosic biomass pyrolysis for biofuel production toward environmental sustainability. *Fuel Processing Technology*, **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. *Chemical Engineering Journal*, **2021**, 425, 131489	14.7	14
593	Scoring environment pillar in environmental, social, and governance (ESG) assessment. *Sustainable Environment*, **2021**, 7, 1960097		4
592	Animal carcass burial management: implications for sustainable biochar use.. *Applied Biological Chemistry*, **2021**, 64, 91	2.9	
591	South Korea's big move to hydrogen society. *Cogent Environmental Science*, **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. *Environment International*, **2020**, 140, 105754	12.9	60

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

571	Soil and geologic formations as antidotes for CO2 sequestration?. *Soil Use and Management*, **2020**, 36, 355-357	3.1	7
570	Red mud-enhanced magnesium phosphate cement for remediation of Pb and As contaminated soil. *Journal of Hazardous Materials*, **2020**, 400, 123317	12.8	55
569	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. *Chemical Engineering Journal*, **2020**, 401, 126136	14.7	78
568	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. *Angewandte Chemie*, **2020**, 132, 19831-19836	3.6	
567	General Formation of Macro-/Mesoporous Nanoshells from Interfacial Assembly of Irregular Mesostructured Nanounits. *Angewandte Chemie - International Edition*, **2020**, 59, 19663-19668	16.4	17
566	COVID-19's unsustainable waste management. *Science*, **2020**, 368, 1438	33.3	77
565	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. *Nature Reviews Earth & Environment*, **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. *Chemical Engineering Science*, **2020**, 226, 115886	4.4	6
563	Biochar as green additives in cement-based composites with carbon dioxide curing. *Journal of Cleaner Production*, **2020**, 258, 120678	10.3	93
562	Quantitative source tracking of heavy metals contained in urban road deposited sediments. *Journal of Hazardous Materials*, **2020**, 393, 122362	12.8	35
561	Recent advances in volatile organic compounds abatement by catalysis and catalytic hybrid processes: A critical review. *Science of the Total Environment*, **2020**, 719, 137405	10.2	57
560	Preliminary techno-economic analysis of biodiesel production over solid-biochar. *Bioresource Technology*, **2020**, 306, 123086	11	33
559	The convertion of sewage sludge to biochar as a sustainable tool of PAHs exposure reduction during agricultural utilization of sewage sludges. *Journal of Hazardous Materials*, **2020**, 392, 122416	12.8	20
558	Sustainable gasification biochar as a high efficiency adsorbent for CO2 capture: A facile method to designer biochar fabrication. *Renewable and Sustainable Energy Reviews*, **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. *Journal of Hazardous Materials*, **2020**, 389, 122117	12.8	38
556	Be cautious applying carbon-fluorine bonds in drug delivery. *Chemosphere*, **2020**, 248, 125971	8.4	
555	Applications of carbonaceous adsorbents in the remediation of polycyclic aromatic hydrocarbon-contaminated sediments: A review. *Journal of Cleaner Production*, **2020**, 255, 120263	10.3	34
554	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. *Environmental Research*, **2020**, 183, 109152	7.9	31

553	Zeolite-supported nanoscale zero-valent iron for immobilization of cadmium, lead, and arsenic in farmland soils: Encapsulation mechanisms and indigenous microbial responses. *Environmental Pollution*, **2020**, 260, 114098	9.3	39
552	Engineered tea-waste biochar for the removal of caffeine, a model compound in pharmaceuticals and personal care products (PPCPs), from aqueous media. *Environmental Technology and Innovation* , **2020**, 19, 100847	7	36
551	A critical review of the effects of pretreatment methods on the exergetic aspects of lignocellulosic biofuels. *Energy Conversion and Management*, **2020**, 212, 112792	10.6	142
550	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. *Green Chemistry*, **2020**, 22, 2688-2711	10	64
549	Carbon dioxide as a carrier gas and mixed feedstock pyrolysis decreased toxicity of sewage sludge biochar. *Science of the Total Environment*, **2020**, 723, 137796	10.2	21
548	Biochar for urban agriculture: Impacts on soil chemical characteristics and on Brassica rapa growth, nutrient content and metabolism over multiple growth cycles. *Science of the Total Environment*, **2020**, 727, 138742	10.2	17
547	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. *Applied Biological Chemistry*, **2020**, 63,	2.9	59
546	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. *Journal of Cleaner Production*, **2020**, 268, 122300	10.3	11
545	First predatory journals, now conferences: The need to establish lists of fake conferences. *Science of the Total Environment*, **2020**, 715, 136990	10.2	7
544	The ongoing cut-down of the Amazon rainforest threatens the climate and requires global tree planting projects: A short review. *Environmental Research*, **2020**, 181, 108887	7.9	9
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