Daniel C.W. Tsang

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.

787 papers	39,099 citations	100 h-index	148 g-index
808 ext. papers	52,979 ext. citations	9.7 avg, IF	8.43 L-index

#	Paper	IF	Citations
787	Evaluation of long-term carbon sequestration of biochar in soil with biogeochemical field model.. *Science of the Total Environment*, **2022**, 822, 153576	10.2	3
786	Influence of Dolomite Rock Powder and Iron Tailings Powder on the Electrical Resistivity, Strength and Microstructure of Cement Pastes and Concrete. *Coatings*, **2022**, 12, 95	2.9	0
785	Overview of hazardous waste treatment and stabilization/solidification technology **2022**, 1-14		0
784	Biochar for green and sustainable stabilization/solidification **2022**, 65-73		0
783	Efficient removal of pefloxacin from aqueous solution by acid-alkali modified sludge-based biochar: adsorption kinetics, isotherm, thermodynamics, and mechanism.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
782	Future research directions for sustainable remediation **2022**, 555-564		
781	Evaluating comprehensive carbon emissions of solidification/stabilization technologies: a case study **2022**, 517-530		
780	Thermochemical conversion of heavy metal contaminated biomass: Fate of the metals and their impact on products.. *Science of the Total Environment*, **2022**, 822, 153426	10.2	1
779	Silicon fertilizers, humic acid and their impact on physicochemical properties, availability and distribution of heavy metals in soil and soil aggregates.. *Science of the Total Environment*, **2022**, 153483	10.2	5
778	Direct and Indirect Electron Transfer Routes of Chromium(VI) Reduction with Different Crystalline Ferric Oxyhydroxides in the Presence of Pyrogenic Carbon.. *Environmental Science & Technology*, **2022**,	10.3	3
777	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO2 capture. *Green Chemistry*, **2022**,	10	8
776	Enhancement of Fenton processes at initial circumneutral pH for the degradation of norfloxacin with Fe@FeS core-shell nanowires.. *Environmental Technology (United Kingdom)*, **2022**, 1-24	2.6	
775	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations.. *Environmental Pollution*, **2022**, 299, 118877	9.3	2
774	Stoichiometric carbocatalysis via epoxide-like C-S-O configuration on sulfur-doped biochar for environmental remediation.. *Journal of Hazardous Materials*, **2022**, 428, 128223	12.8	2
773	Co-application of biochar and organic fertilizer promotes the yield and quality of red pitaya (Hylocereus polyrhizus) by improving soil properties.. *Chemosphere*, **2022**, 294, 133619	8.4	1
772	Vinasse-based biochar magnetic composites: adsorptive removal of tetracycline in aqueous solutions.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	1
771	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

770	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity.. *Science of the Total Environment*, **2022**, 153768	10.2	0
769	Catalytic co-hydrothermal carbonization of food waste digestate and yard waste for energy application and nutrient recovery. *Bioresource Technology*, **2022**, 344, 126395	11	13
768	Mechanochemical modification of biochar-attapulgite nanocomposites for cadmium removal: Performance and mechanisms. *Biochemical Engineering Journal*, **2022**, 179, 108332	4.2	0
767	Chrome-free synergistic tanning system based on biomass-derived hydroxycarboxylic acid–zirconium complexes. *Journal of Cleaner Production*, **2022**, 336, 130428	10.3	1
766	Efficient removal of hexavalent chromium through adsorption-reduction-adsorption pathway by iron-clay biochar composite prepared from Populus nigra. *Separation and Purification Technology*, **2022**, 285, 120386	8.3	3
765	Mg-Fe LDH-coated biochars for metal(loid) removal: Surface complexation modeling and structural change investigations. *Chemical Engineering Journal*, **2022**, 432, 134360	14.7	0
764	Roles of biochar in cement-based stabilization/solidification of municipal solid waste incineration fly ash. *Chemical Engineering Journal*, **2022**, 430, 132972	14.7	13
763	Multifunctional applications of biochar beyond carbon storage. *International Materials Reviews*, **2022**, 1-51	16.1	58
762	Biochar composites: Emerging trends, field successes and sustainability implications. *Soil Use and Management*, **2022**,	3.1	14
761	Cytotoxicity of stabilized/solidified municipal solid waste incineration fly ash. *Journal of Hazardous Materials*, **2022**, 424, 127369	12.8	5
760	Mechanistic insights into trace metal mobilization at the micro-scale in the rhizosphere of Vallisneria spiralis. *Science of the Total Environment*, **2022**, 806, 150735	10.2	2
759	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. *Journal of Hazardous Materials*, **2022**, 422, 126843	12.8	34
758	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. *Journal of Hazardous Materials*, **2022**, 423, 127060	12.8	13
757	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
756	Designing novel magnesium oxysulfate cement for stabilization/solidification of municipal solid waste incineration fly ash. *Journal of Hazardous Materials*, **2022**, 423, 127025	12.8	16
755	Stable isotope fractionation of thallium as novel evidence for its geochemical transfer during lead-zinc smelting activities. *Science of the Total Environment*, **2022**, 803, 150036	10.2	7
754	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
753	Synergistic effects of blending seafood wastes as Co-pyrolysis feedstock on syngas production and biochar properties. *Chemical Engineering Journal*, **2022**, 429, 132487	14.7	2

752	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
751	Co-pyrolysis route of chlorella sp. and bauxite tailings to fabricate metal-biochar as persulfate activator. *Chemical Engineering Journal*, **2022**, 428, 132578	14.7	4
750	Novel insights into the adsorption of organic contaminants by biochar: A review. *Chemosphere*, **2022**, 287, 132113	8.4	10
749	Transformation and fate of thallium and accompanying metal(loid)s in paddy soils and rice: A case study from a large-scale industrial area in China. *Journal of Hazardous Materials*, **2022**, 423, 126997	12.8	14
748	The sorption and short-term immobilization of lead and cadmium by nano-hydroxyapatite/biochar in aqueous solution and soil. *Chemosphere*, **2022**, 286, 131810	8.4	6
747	Critical factors for levulinic acid production from starch-rich food waste: solvent effects, reaction pressure, and phase separation. *Green Chemistry*, **2022**,	10	7
746	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. *Environmental Science & Technology*, **2022**,	10.3	8
745	Development of phosphorus composite biochar for simultaneous enhanced carbon sink and heavy metal immobilization in soil.. *Science of the Total Environment*, **2022**, 154845	10.2	1
744	Biochar-based slow-release of fertilizers for sustainable agriculture: A mini review. *Environmental Science and Ecotechnology*, **2022**, 10, 100167	7.4	5
743	New insights into physicochemical properties of different particulate size-fractions and dissolved organic matter derived from biochars and their sorption capacity for phenanthrene.. *Journal of Hazardous Materials*, **2022**, 434, 128867	12.8	0
742	Wheat straw derived biochar with hierarchically porous structure for bisphenol A removal: Preparation, characterization, and adsorption properties. *Separation and Purification Technology*, **2022**, 289, 120796	8.3	2
741	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. *Journal of Hazardous Materials*, **2022**, 430, 128503	12.8	0
740	A review of pristine and modified biochar immobilizing typical heavy metals in soil: Applications and challenges.. *Journal of Hazardous Materials*, **2022**, 432, 128668	12.8	1
739	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar.. *Chemosphere*, **2022**, 299, 134426	8.4	0
738	Valorizing plastic toy wastes to flammable gases through CO-mediated pyrolysis with a Co-based catalyst.. *Journal of Hazardous Materials*, **2022**, 434, 128850	12.8	0
737	Selective hydrogenation of vanillin to vanillyl alcohol over Pd, Pt, and Au catalysts supported on an advanced nitrogen-containing carbon material produced from food waste. *Chemical Engineering Journal*, **2022**, 440, 135885	14.7	0
736	Removal of toxic elements from aqueous environments using nano zero-valent iron- and iron oxide-modified biochar: a review. *Biochar*, **2022**, 4, 1	10	2
735	Source tracing with cadmium isotope and risk assessment of heavy metals in sediment of an urban river, China.. *Environmental Pollution*, **2022**, 119325	9.3	2

734	Control of the fate of toxic pollutants from catalytic pyrolysis of polyurethane by oxidation using CO2. *Chemical Engineering Journal*, **2022**, 442, 136358	14.7	1
733	Enhancing microplastics biodegradation during composting using livestock manure biochar.. *Environmental Pollution*, **2022**, 119339	9.3	1
732	Investigations of the Mechanical Properties and Durability of Reactive Powder Concrete Containing Waste Fly Ash. *Buildings*, **2022**, 12, 560	3.2	1
731	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. *Renewable and Sustainable Energy Reviews*, **2022**, 163, 112515	16.2	7
730	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. *Bioresource Technology*, **2022**, 355, 127303	11	2
729	Applications and influencing factors of the biochar-persulfate based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds.. *Science of the Total Environment*, **2022**, 155421	10.2	1
728	Biochar and sustainable development goals **2022**, 15-22		0
727	Biochars□potential role in the remediation, revegetation, and restoration of contaminated soils **2022**, 381-399		
726	Partitioning and (im)mobilization of arsenic associated with iron in arsenic-bearing deep subsoil profiles from Hong Kong. *Environmental Pollution*, **2022**, 119527	9.3	1
725	Catalytic valorisation of various paper wastes into levulinic acid, hydroxymethylfurfural, and furfural: Influence of feedstock properties and ferric chloride. *Bioresource Technology*, **2022**, 357, 127376	11	1
724	Customizing high-performance molten salt biochar from wood waste for CO2/N2 separation. *Fuel Processing Technology*, **2022**, 234, 107319	7.2	0
723	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. *Environmental Research*, **2022**, 113495	7.9	2
722	Mobilization of contaminants: Potential for soil remediation and unintended consequences. *Science of the Total Environment*, **2022**, 839, 156373	10.2	0
721	Research on the Mechanical Strengths and the Following Corrosion Resistance of Inner Steel Bars of RPC with Rice Husk Ash and Waste Fly Ash. *Coatings*, **2021**, 11, 1480	2.9	6
720	Influence of Waste Fly Ash on the Rheological Properties of Fresh Cement Paste and the Following Electrical Performances and Mechanical Strengths of Hardened Specimens. *Coatings*, **2021**, 11, 1558	2.9	4
719	Modeling and visualizing the transport and retention of cationic and oxyanionic metals (Cd and Cr) in saturated soil under various hydrochemical and hydrodynamic conditions. *Science of the Total Environment*, **2021**, 151467	10.2	4
718	Activation of peroxydisulfate by ball-milled □FeOOH/biochar composite for phenol removal: Component contribution and internal mechanisms. *Environmental Pollution*, **2021**, 293, 118596	9.3	1
717	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

716	Biochar-augmented carbon-negative concrete. *Chemical Engineering Journal*, **2021**, 431, 133946	14.7	8
715	Effects of modified biochar on As-contaminated water and soil: A recent update. *Advances in Chemical Pollution, Environmental Management and Protection*, **2021**, 7, 107-136	1.5	0
714	Rice husk biochar modified-CuCoO as an efficient peroxymonosulfate activator for non-radical degradation of organic pollutants from aqueous environment.. *RSC Advances*, **2021**, 11, 39467-39475	3.7	1
713	Magnetic MgFeO/biochar derived from pomelo peel as a persulfate activator for levofloxacin degradation: Effects and mechanistic consideration.. *Bioresource Technology*, **2021**, 346, 126547	11	4
712	Contrasting effects of dry-wet and freeze-thaw aging on the immobilization of As in As-contaminated soils amended by zero-valent iron-embedded biochar.. *Journal of Hazardous Materials*, **2021**, 426, 128123	12.8	0
711	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism.. *Journal of Hazardous Materials*, **2021**, 427, 128117	12.8	3
710	Insights into deep decline of As(III) leachability induced by As(III) partial oxidation during lime stabilization of As-Ca sludge. *Journal of Hazardous Materials*, **2021**, 424, 127575	12.8	1
709	Interactions between biochar and clay minerals in changing biochar carbon stability. *Science of the Total Environment*, **2021**, 809, 151124	10.2	2
708	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. *Environmental Research*, **2021**, 207, 112179	7.9	12
707	Hydrothermal carbonization and liquefaction for sustainable production of hydrochar and aromatics. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111722	16.2	13
706	Technologies and perspectives for achieving carbon neutrality. *Innovation(China)*, **2021**, 2, 100180	17.8	37
705	Efficient Removal of Antimony(III) in Aqueous Phase by Nano-Fe3O4 Modified High-Iron Red Mud: Study on Its Performance and Mechanism. *Water (Switzerland)*, **2021**, 13, 809	3	1
704	Stress-Strain behaviour of Cement-Stabilized Hong Kong marine deposits. *Construction and Building Materials*, **2021**, 274, 122103	6.7	7
703	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. *Environmental Science & Technology*, **2021**, 55, 7004-7014	10.3	34
702	Effect of phosphorus supplementation on growth, nutrient uptake, physiological responses, and cadmium absorption by tall fescue (Festuca arundinacea Schreb.) exposed to cadmium. *Ecotoxicology and Environmental Safety*, **2021**, 213, 112021	7	6
701	An overview on engineering the surface area and porosity of biochar. *Science of the Total Environment*, **2021**, 763, 144204	10.2	106
700	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. *Water Research*, **2021**, 196, 117011	12.5	51
699	Sustainable stabilization/solidification of arsenic-containing soil by blast slag and cement blends. *Chemosphere*, **2021**, 271, 129868	8.4	15

698	Comparison of the Hydraulic Fracturing Water Cycle in China and North America: A Critical Review. *Environmental Science & Technology*, **2021**, 55, 7167-7185	10.3	16
697	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. *Environmental Pollution*, **2021**, 279, 116899	9.3	5
696	Treatment of municipal solid waste incineration fly ash: State-of-the-art technologies and future perspectives. *Journal of Hazardous Materials*, **2021**, 411, 125132	12.8	42
695	Distribution and migration characteristics of dinitrotoluene sulfonates (DNTs) in typical TNT production sites: Effects and health risk assessment. *Journal of Environmental Management*, **2021**, 287, 112342	7.9	4
694	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. *Journal of Hazardous Materials*, **2021**, 412, 125213	12.8	14
693	Streptomyces pactum addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. *Chemosphere*, **2021**, 273, 129692	8.4	16
692	Novel recycling of incinerated sewage sludge ash (ISSA) and waste bentonite as ceramsite for Pb-containing wastewater treatment: Performance and mechanism. *Journal of Environmental Management*, **2021**, 288, 112382	7.9	7
691	Valorization of humins from food waste biorefinery for synthesis of biochar-supported Lewis acid catalysts. *Science of the Total Environment*, **2021**, 775, 145851	10.2	17
690	Roles of Biochar and CO2 Curing in Sustainable Magnesia Cement-Based Composites. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8603-8610	8.3	19
689	New insights into the underlying influence of bentonite on Pb immobilization by undissolvable and dissolvable fractions of biochar. *Science of the Total Environment*, **2021**, 775, 145824	10.2	2
688	On the use of limestone calcined clay cement (LC3) in high-strength strain-hardening cement-based composites (HS-SHCC). *Cement and Concrete Research*, **2021**, 144, 106421	10.3	21
687	Activation of peroxymonosulfate (PMS) by spinel ferrite and their composites in degradation of organic pollutants: A Review. *Chemical Engineering Journal*, **2021**, 414, 128800	14.7	53
686	Survival strategies and dominant phylotypes of maize-rhizosphere microorganisms under metal(loid)s contamination. *Science of the Total Environment*, **2021**, 774, 145143	10.2	12
685	Rice husk-derived biochar can aggravate arsenic mobility in ferrous-rich groundwater during oxygenation. *Water Research*, **2021**, 200, 117264	12.5	5
684	Characteristics and Influencing Factors of Microbial Community in Heavy Metal Contaminated Soil under Silicon Fertilizer and Biochar Remediation. *Adsorption Science and Technology*, **2021**, 2021, 1-10	3.6	2
683	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
682	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. *Journal of Cleaner Production*, **2021**, 305, 127143	10.3	97
681	Evolution of redox activity of biochar during interaction with soil minerals: Effect on the electron donating and mediating capacities for Cr(VI) reduction. *Journal of Hazardous Materials*, **2021**, 414, 125483	12.8	27

680	A cross-region analysis of commercial food waste recycling behaviour. *Chemosphere*, **2021**, 274, 129750	8.4	4
679	Selective degradation and oxidation of hemicellulose in corncob to oligosaccharides: From biomass into masking agent for sustainable leather tanning. *Journal of Hazardous Materials*, **2021**, 413, 125425	12.8	12
678	Feasibility of wet-extraction of phosphorus from incinerated sewage sludge ash (ISSA) for phosphate fertilizer production: A critical review. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 939-971	11.1	21
677	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 1479-1532	11.1	22
676	Recyclable aqueous metal adsorbent: Synthesis and Cu(II) sorption characteristics of ternary nanocomposites of FeO nanoparticles@graphene-poly-N-phenylglycine nanofibers. *Journal of Hazardous Materials*, **2021**, 401, 123283	12.8	11
675	Highly efficient removal of thallium in wastewater by MnFeO-biochar composite. *Journal of Hazardous Materials*, **2021**, 401, 123311	12.8	80
674	Environmental fate, toxicity and risk management strategies of nanoplastics in the environment: Current status and future perspectives. *Journal of Hazardous Materials*, **2021**, 401, 123415	12.8	129
673	A review on the valorisation of food waste as a nutrient source and soil amendment. *Environmental Pollution*, **2021**, 272, 115985	9.3	25
672	Boron supply alleviates cadmium toxicity in rice (Oryza sativa L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. *Chemosphere*, **2021**, 266, 128938	8.4	26
671	High-efficiency and low-carbon remediation of zinc contaminated sludge by magnesium oxysulfate cement. *Journal of Hazardous Materials*, **2021**, 408, 124486	12.8	24
670	Thio-groups decorated covalent triazine frameworks for selective mercury removal. *Journal of Hazardous Materials*, **2021**, 403, 123702	12.8	27
669	Sustainable production of lignin micro-/nano-particles (LMNPs) from biomass: Influence of the type of biomass on their self-assembly capability and physicochemical properties. *Journal of Hazardous Materials*, **2021**, 403, 123701	12.8	12
668	A new DGT technique comprising a hybrid sensor for the simultaneous high resolution 2-D imaging of sulfides, metallic cations, oxyanions and dissolved oxygen. *Journal of Hazardous Materials*, **2021**, 403, 123597	12.8	8
667	A review of microplastics aggregation in aquatic environment: Influence factors, analytical methods, and environmental implications. *Journal of Hazardous Materials*, **2021**, 402, 123496	12.8	60
666	Performance indicators for a holistic evaluation of catalyst-based degradation-A case study of selected pharmaceuticals and personal care products (PPCPs). *Journal of Hazardous Materials*, **2021** , 402, 123460	12.8	17
665	Fe/Al (hydr)oxides engineered biochar for reducing phosphorus leaching from a fertile calcareous soil. *Journal of Cleaner Production*, **2021**, 279, 123877	10.3	36
664	Microscopic mechanism about the selective adsorption of Cr(VI) from salt solution on O-rich and N-rich biochars. *Journal of Hazardous Materials*, **2021**, 404, 124162	12.8	26
663	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (Solanum lycopersicum L.) by minimizing cobalt uptake. *Chemosphere*, **2021**, 263, 128169	8.4	38

662	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110033	16.2	67
661	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions. *Angewandte Chemie - International Edition*, **2021**, 60, 624-629	16.4	7
660	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. *Journal of Cleaner Production*, **2021**, 280, 124418	10.3	11
659	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. *Chemical Engineering Journal*, **2021**, 406, 126782	14.7	44
658	New insight into adsorption and reduction of hexavalent chromium by magnetite: Multi-step reaction mechanism and kinetic model developing. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 611, 125784	5.1	8
657	Metal-organic framework for the extraction and detection of pesticides from food commodities. *Comprehensive Reviews in Food Science and Food Safety*, **2021**, 20, 1009-1035	16.4	17
656	Valorization of plastics and goethite into iron-carbon composite as persulfate activator for amaranth oxidation. *Chemical Engineering Journal*, **2021**, 407, 127188	14.7	2
655	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. *Science of the Total Environment*, **2021**, 756, 143866	10.2	8
654	Emerging risks of toxic metal(loid)s in soil-vegetables influenced by steel-making activities and isotopic source apportionment. *Environment International*, **2021**, 146, 106207	12.9	48
653	Metal chloride-loaded biochar for phosphorus recovery: Noteworthy roles of inherent minerals in precursor. *Chemosphere*, **2021**, 266, 128991	8.4	12
652	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. *Journal of Cleaner Production*, **2021**, 289, 125142	10.3	25
651	Lignin valorization by bacterial genus Pseudomonas: State-of-the-art review and prospects. *Bioresource Technology*, **2021**, 320, 124412	11	29
650	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
649	Manganese ferrite modified biochar from vinasse for enhanced adsorption of levofloxacin: Effects and mechanisms. *Environmental Pollution*, **2021**, 272, 115968	9.3	17
648	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. *Environmental Pollution*, **2021**, 270, 116281	9.3	22
647	High cadmium pollution from sediments in a eutrophic lake caused by dissolved organic matter complexation and reduction of manganese oxide. *Water Research*, **2021**, 190, 116711	12.5	22
646	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. *Journal of Hazardous Materials*, **2021**, 408, 124850	12.8	16
645	Emergent thallium exposure from uranium mill tailings. *Journal of Hazardous Materials*, **2021**, 407, 124402	12.8	22

644	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. *Science of the Total Environment*, **2021**, 756, 143679	10.2	23
643	Responses of ammonia-oxidizing microorganisms to biochar and compost amendments of heavy metals-polluted soil. *Journal of Environmental Sciences*, **2021**, 102, 263-272	6.4	12
642	How energy service companies moderate the impact of industrialization and urbanization on carbon emissions in China?. *Science of the Total Environment*, **2021**, 751, 141610	10.2	28
641	Stabilisation/solidification of municipal solid waste incineration fly ash by phosphate-enhanced calcium aluminate cement. *Journal of Hazardous Materials*, **2021**, 408, 124404	12.8	31
640	Current progress in degradation and removal methods of polybrominated diphenyl ethers from water and soil: A review. *Journal of Hazardous Materials*, **2021**, 403, 123674	12.8	37
639	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. *Journal of Hazardous Materials*, **2021**, 407, 124344	12.8	59
638	Sorption of reactive red by biochars ball milled in different atmospheres: Co-effect of surface morphology and functional groups. *Chemical Engineering Journal*, **2021**, 413, 127468	14.7	8
637	Activated carbons prepared via reflux-microwave-assisted activation approach with high adsorption capability for methylene blue. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104671	6.8	11
636	Sustainable improvement of soil health utilizing biochar and arbuscular mycorrhizal fungi: A review. *Environmental Pollution*, **2021**, 268, 115549	9.3	25
635	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
634	Arbuscular mycorrhizal fungi-induced mitigation of heavy metal phytotoxicity in metal contaminated soils: A critical review. *Journal of Hazardous Materials*, **2021**, 402, 123919	12.8	72
633	Magnetic nanocomposite-system for the remediation of lead-contaminated urban surface. *E3S Web of Conferences*, **2021**, 266, 08007	0.5	
632	The FeO-modified biochar reduces arsenic availability in soil and arsenic accumulation in indica rice (Oryza sativa L.). *Environmental Science and Pollution Research*, **2021**, 28, 18050-18061	5.1	2
631	Iron-based materials for removal of arsenic from water **2021**, 209-245		3
630	Magnetic biochar-based composites for removal of recalcitrant pollutants in water **2021**, 163-187		1
629	Nitrate removal uncertainty in stormwater control measures: Is the design or climate a culprit?. *Water Research*, **2021**, 190, 116781	12.5	8
628	Heterogeneous Diels-Alder tandem catalysis for converting cellulose and polyethylene into BTX. *Journal of Hazardous Materials*, **2021**, 414, 125418	12.8	8
627	Enhanced adsorption of Cu(II) and Zn(II) from aqueous solution by polyethyleneimine modified straw hydrochar. *Science of the Total Environment*, **2021**, 778, 146116	10.2	52

626	A holistic understanding of cobalt cycling and limiting roles in the eutrophic Lake Taihu. *Chemosphere*, **2021**, 277, 130234	8.4	2
625	Tailored design of food waste hydrochar for efficient adsorption and catalytic degradation of refractory organic contaminant. *Journal of Cleaner Production*, **2021**, 310, 127482	10.3	16
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