

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.. <i>Science of the Total Environment</i> , 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. <i>Coatings</i> , 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.. <i>Environmental Science and Pollution Research</i> , 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.. <i>Science of the Total Environment</i> , 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.. <i>Science of the Total Environment</i> , 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.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	3
777	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO2 capture. <i>Green Chemistry</i> , 2022 ,	10	8
776	Enhancement of Fenton processes at initial circumneutral pH for the degradation of norfloxacin with Fe@FeS core-shell nanowires.. <i>Environmental Technology (United Kingdom)</i> , 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.. <i>Environmental Pollution</i> , 2022 , 299, 118877	9.3	2
774	Stoichiometric carbocatalysis via epoxide-like C-S-O configuration on sulfur-doped biochar for environmental remediation.. <i>Journal of Hazardous Materials</i> , 2022 , 428, 128223	12.8	2
773	Co-application of biochar and organic fertilizer promotes the yield and quality of red pitaya (<i>Hylocereus polyrhizus</i>) by improving soil properties.. <i>Chemosphere</i> , 2022 , 294, 133619	8.4	1
772	Vinasse-based biochar magnetic composites: adsorptive removal of tetracycline in aqueous solutions.. <i>Environmental Science and Pollution Research</i> , 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. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128479	12.8	3

770	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity.. <i>Science of the Total Environment</i> , 2022 , 153768	10.2	0
769	Catalytic co-hydrothermal carbonization of food waste digestate and yard waste for energy application and nutrient recovery. <i>Bioresource Technology</i> , 2022 , 344, 126395	11	13
768	Mechanochemical modification of biochar-attapulgitite nanocomposites for cadmium removal: Performance and mechanisms. <i>Biochemical Engineering Journal</i> , 2022 , 179, 108332	4.2	0
767	Chrome-free synergistic tanning system based on biomass-derived hydroxycarboxylic acid/zirconium complexes. <i>Journal of Cleaner Production</i> , 2022 , 336, 130428	10.3	1
766	Efficient removal of hexavalent chromium through adsorption-reduction-adsorption pathway by iron-clay biochar composite prepared from <i>Populus nigra</i> . <i>Separation and Purification Technology</i> , 2022 , 285, 120386	8.3	3
765	Mg-Fe LDH-coated biochars for metal(loid) removal: Surface complexation modeling and structural change investigations. <i>Chemical Engineering Journal</i> , 2022 , 432, 134360	14.7	0
764	Roles of biochar in cement-based stabilization/solidification of municipal solid waste incineration fly ash. <i>Chemical Engineering Journal</i> , 2022 , 430, 132972	14.7	13
763	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022 , 1-51	16.1	58
762	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022 ,	3.1	14
761	Cytotoxicity of stabilized/solidified municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022 , 424, 127369	12.8	5
760	Mechanistic insights into trace metal mobilization at the micro-scale in the rhizosphere of <i>Vallisneria spiralis</i> . <i>Science of the Total Environment</i> , 2022 , 806, 150735	10.2	2
759	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. <i>Journal of Hazardous Materials</i> , 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. <i>Journal of Hazardous Materials</i> , 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. <i>Journal of Hazardous Materials</i> , 2022 , 421, 126647	12.8	9
756	Designing novel magnesium oxysulfate cement for stabilization/solidification of municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022 , 423, 127025	12.8	16
755	Stable isotope fractionation of thallium as novel evidence for its geochemical transfer during lead-zinc smelting activities. <i>Science of the Total Environment</i> , 2022 , 803, 150036	10.2	7
754	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
753	Synergistic effects of blending seafood wastes as Co-pyrolysis feedstock on syngas production and biochar properties. <i>Chemical Engineering Journal</i> , 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. <i>Chemical Engineering Journal</i> , 2022 , 428, 131967	14.7	8
751	Co-pyrolysis route of chlorella sp. and bauxite tailings to fabricate metal-biochar as persulfate activator. <i>Chemical Engineering Journal</i> , 2022 , 428, 132578	14.7	4
750	Novel insights into the adsorption of organic contaminants by biochar: A review. <i>Chemosphere</i> , 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. <i>Journal of Hazardous Materials</i> , 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. <i>Chemosphere</i> , 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. <i>Green Chemistry</i> , 2022 ,	10	7
746	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. <i>Environmental Science & Technology</i> , 2022 ,	10.3	8
745	Development of phosphorus composite biochar for simultaneous enhanced carbon sink and heavy metal immobilization in soil.. <i>Science of the Total Environment</i> , 2022 , 154845	10.2	1
744	Biochar-based slow-release of fertilizers for sustainable agriculture: A mini review. <i>Environmental Science and Ecotechnology</i> , 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.. <i>Journal of Hazardous Materials</i> , 2022 , 434, 128867	12.8	0
742	Wheat straw derived biochar with hierarchically porous structure for bisphenol A removal: Preparation, characterization, and adsorption properties. <i>Separation and Purification Technology</i> , 2022 , 289, 120796	8.3	2
741	Soil platisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022 , 430, 128503	12.8	0
740	A review of pristine and modified biochar immobilizing typical heavy metals in soil: Applications and challenges.. <i>Journal of Hazardous Materials</i> , 2022 , 432, 128668	12.8	1
739	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar.. <i>Chemosphere</i> , 2022 , 299, 134426	8.4	0
738	Valorizing plastic toy wastes to flammable gases through CO-mediated pyrolysis with a Co-based catalyst.. <i>Journal of Hazardous Materials</i> , 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. <i>Chemical Engineering Journal</i> , 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. <i>Biochar</i> , 2022 , 4, 1	10	2
735	Source tracing with cadmium isotope and risk assessment of heavy metals in sediment of an urban river, China.. <i>Environmental Pollution</i> , 2022 , 119325	9.3	2

734	Control of the fate of toxic pollutants from catalytic pyrolysis of polyurethane by oxidation using CO ₂ . <i>Chemical Engineering Journal</i> , 2022 , 442, 136358	14.7	1
733	Enhancing microplastics biodegradation during composting using livestock manure biochar.. <i>Environmental Pollution</i> , 2022 , 119339	9.3	1
732	Investigations of the Mechanical Properties and Durability of Reactive Powder Concrete Containing Waste Fly Ash. <i>Buildings</i> , 2022 , 12, 560	3.2	1
731	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022 , 163, 112515	16.2	7
730	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. <i>Bioresource Technology</i> , 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.. <i>Science of the Total Environment</i> , 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. <i>Environmental Pollution</i> , 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. <i>Bioresource Technology</i> , 2022 , 357, 127376 ¹¹	11	1
724	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
723	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. <i>Environmental Research</i> , 2022 , 113495	7.9	2
722	Mobilization of contaminants: Potential for soil remediation and unintended consequences. <i>Science of the Total Environment</i> , 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. <i>Coatings</i> , 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. <i>Coatings</i> , 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. <i>Science of the Total Environment</i> , 2021 , 151467	10.2	4
718	Activation of peroxydisulfate by ball-milled FeOOH/biochar composite for phenol removal: Component contribution and internal mechanisms. <i>Environmental Pollution</i> , 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. <i>Journal of Hazardous Materials</i> , 2021 , 425, 127906	12.8	17

716	Biochar-augmented carbon-negative concrete. <i>Chemical Engineering Journal</i> , 2021 , 431, 133946	14.7	8
715	Effects of modified biochar on As-contaminated water and soil: A recent update. <i>Advances in Chemical Pollution, Environmental Management and Protection</i> , 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.. <i>RSC Advances</i> , 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.. <i>Bioresource Technology</i> , 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.. <i>Journal of Hazardous Materials</i> , 2021 , 426, 128123	12.8	0
711	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism.. <i>Journal of Hazardous Materials</i> , 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. <i>Journal of Hazardous Materials</i> , 2021 , 424, 127575	12.8	1
709	Interactions between biochar and clay minerals in changing biochar carbon stability. <i>Science of the Total Environment</i> , 2021 , 809, 151124	10.2	2
708	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2021 , 207, 112179	7.9	12
707	Hydrothermal carbonization and liquefaction for sustainable production of hydrochar and aromatics. <i>Renewable and Sustainable Energy Reviews</i> , 2021 , 152, 111722	16.2	13
706	Technologies and perspectives for achieving carbon neutrality. <i>Innovation(China)</i> , 2021 , 2, 100180	17.8	37
705	Efficient Removal of Antimony(III) in Aqueous Phase by Nano-Fe ₃ O ₄ Modified High-Iron Red Mud: Study on Its Performance and Mechanism. <i>Water (Switzerland)</i> , 2021 , 13, 809	3	1
704	Stress-Strain behaviour of Cement-Stabilized Hong Kong marine deposits. <i>Construction and Building Materials</i> , 2021 , 274, 122103	6.7	7
703	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. <i>Environmental Science & Technology</i> , 2021 , 55, 7004-7014	10.3	34
702	Effect of phosphorus supplementation on growth, nutrient uptake, physiological responses, and cadmium absorption by tall fescue (<i>Festuca arundinacea</i> Schreb.) exposed to cadmium. <i>Ecotoxicology and Environmental Safety</i> , 2021 , 213, 112021	7	6
701	An overview on engineering the surface area and porosity of biochar. <i>Science of the Total Environment</i> , 2021 , 763, 144204	10.2	106
700	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. <i>Water Research</i> , 2021 , 196, 117011	12.5	51
699	Sustainable stabilization/solidification of arsenic-containing soil by blast slag and cement blends. <i>Chemosphere</i> , 2021 , 271, 129868	8.4	15

698	Comparison of the Hydraulic Fracturing Water Cycle in China and North America: A Critical Review. <i>Environmental Science & Technology</i> , 2021 , 55, 7167-7185	10.3	16
697	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. <i>Environmental Pollution</i> , 2021 , 279, 116899	9.3	5
696	Treatment of municipal solid waste incineration fly ash: State-of-the-art technologies and future perspectives. <i>Journal of Hazardous Materials</i> , 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. <i>Journal of Environmental Management</i> , 2021 , 287, 112342	7.9	4
694	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
693	<i>Streptomyces pactum</i> addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. <i>Chemosphere</i> , 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. <i>Journal of Environmental Management</i> , 2021 , 288, 112382	7.9	7
691	Valorization of humins from food waste biorefinery for synthesis of biochar-supported Lewis acid catalysts. <i>Science of the Total Environment</i> , 2021 , 775, 145851	10.2	17
690	Roles of Biochar and CO ₂ Curing in Sustainable Magnesite Cement-Based Composites. <i>ACS Sustainable Chemistry and Engineering</i> , 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. <i>Science of the Total Environment</i> , 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). <i>Cement and Concrete Research</i> , 2021 , 144, 106421	10.3	21
687	Activation of peroxymonosulfate (PMS) by spinel ferrite and their composites in degradation of organic pollutants: A Review. <i>Chemical Engineering Journal</i> , 2021 , 414, 128800	14.7	53
686	Survival strategies and dominant phylotypes of maize-rhizosphere microorganisms under metal(loid)s contamination. <i>Science of the Total Environment</i> , 2021 , 774, 145143	10.2	12
685	Rice husk-derived biochar can aggravate arsenic mobility in ferrous-rich groundwater during oxygenation. <i>Water Research</i> , 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. <i>Adsorption Science and Technology</i> , 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. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125378	12.8	55
682	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. <i>Journal of Cleaner Production</i> , 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. <i>Journal of Hazardous Materials</i> , 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. <i>Renewable and Sustainable Energy Reviews</i> , 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. <i>Angewandte Chemie - International Edition</i> , 2021 , 60, 624-629	16.4	7
660	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. <i>Journal of Cleaner Production</i> , 2021 , 280, 124418	10.3	11
659	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. <i>Chemical Engineering Journal</i> , 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. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 611, 125784	5.1	8
657	Metal-organic framework for the extraction and detection of pesticides from food commodities. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2021 , 20, 1009-1035	16.4	17
656	Valorization of plastics and goethite into iron-carbon composite as persulfate activator for amaranth oxidation. <i>Chemical Engineering Journal</i> , 2021 , 407, 127188	14.7	2
655	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. <i>Science of the Total Environment</i> , 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. <i>Environment International</i> , 2021 , 146, 106207	12.9	48
653	Metal chloride-loaded biochar for phosphorus recovery: Noteworthy roles of inherent minerals in precursor. <i>Chemosphere</i> , 2021 , 266, 128991	8.4	12
652	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021 , 289, 125142	10.3	25
651	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021 , 320, 124412	11	29
650	Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. <i>Environmental Pollution</i> , 2021 , 272, 116009	9.3	10
649	Manganese ferrite modified biochar from vinasse for enhanced adsorption of levofloxacin: Effects and mechanisms. <i>Environmental Pollution</i> , 2021 , 272, 115968	9.3	17
648	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. <i>Environmental Pollution</i> , 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. <i>Water Research</i> , 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. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124850	12.8	16
645	Emergent thallium exposure from uranium mill tailings. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124402	12.8	22

644	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <i>Science of the Total Environment</i> , 2021 , 756, 143679	10.2	23
643	Responses of ammonia-oxidizing microorganisms to biochar and compost amendments of heavy metals-polluted soil. <i>Journal of Environmental Sciences</i> , 2021 , 102, 263-272	6.4	12
642	How energy service companies moderate the impact of industrialization and urbanization on carbon emissions in China?. <i>Science of the Total Environment</i> , 2021 , 751, 141610	10.2	28
641	Stabilisation/solidification of municipal solid waste incineration fly ash by phosphate-enhanced calcium aluminate cement. <i>Journal of Hazardous Materials</i> , 2021 , 408, 124404	12.8	31
640	Current progress in degradation and removal methods of polybrominated diphenyl ethers from water and soil: A review. <i>Journal of Hazardous Materials</i> , 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. <i>Journal of Hazardous Materials</i> , 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. <i>Chemical Engineering Journal</i> , 2021 , 413, 127468	14.7	8
637	Activated carbons prepared via reflux-microwave-assisted activation approach with high adsorption capability for methylene blue. <i>Journal of Environmental Chemical Engineering</i> , 2021 , 9, 104671	6.8	11
636	Sustainable improvement of soil health utilizing biochar and arbuscular mycorrhizal fungi: A review. <i>Environmental Pollution</i> , 2021 , 268, 115549	9.3	25
635	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	12.8	54
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324	Supercritical Carbon Dioxide Extraction of Value-Added Products and Thermochemical Synthesis of Platform Chemicals from Food Waste. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 2821-2829	8.3	16
323	Phosphorus mobilization in lake sediments: Experimental evidence of strong control by iron and negligible influences of manganese redox reactions. <i>Environmental Pollution</i> , 2019 , 246, 472-481	9.3	29
322	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An Experimental and Computational Study. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 1437-1446	8.3	16
321	Seasonal antimony pollution caused by high mobility of antimony in sediments: In situ evidence and mechanical interpretation. <i>Journal of Hazardous Materials</i> , 2019 , 367, 427-436	12.8	18

320	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (<i>Gracilaria lemaneiformis</i>) for production of levulinic acid and algae hydrochar. <i>Bioresource Technology</i> , 2019 , 273, 251-258	11	108
319	Transforming waterworks sludge into controlled low-strength material: Bench-scale optimization and field test validation. <i>Journal of Environmental Management</i> , 2019 , 232, 254-263	7.9	14
318	Hydrothermal Carbonization for Hydrochar Production and Its Application 2019 , 275-294		17
317	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. <i>Journal of Hazardous Materials</i> , 2019 , 365, 684-694	12.8	100
316	Sludge-Derived Biochar and Its Application in Soil Fixation 2019 , 239-253		2
315	Biochar as an (Im)mobilizing Agent for the Potentially Toxic Elements in Contaminated Soils 2019 , 255-274		9
314	Novel Application of Biochar in Stormwater Harvesting 2019 , 319-347		2
313	Novel synergy of Si-rich minerals and reactive MgO for stabilisation/solidification of contaminated sediment. <i>Journal of Hazardous Materials</i> , 2019 , 365, 695-706	12.8	110
312	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. <i>Journal of Hazardous Materials</i> , 2019 , 365, 665-673	12.8	136
311	A novel electrochemical modification combined with one-step pyrolysis for preparation of sustainable thorn-like iron-based biochar composites. <i>Bioresource Technology</i> , 2019 , 274, 379-385	11	69
310	Effect of production temperature on lead removal mechanisms by rice straw biochars. <i>Science of the Total Environment</i> , 2019 , 655, 751-758	10.2	148
309	The potential of green synthesized zinc oxide nanoparticles as nutrient source for plant growth. <i>Journal of Cleaner Production</i> , 2019 , 214, 1061-1070	10.3	88
308	Recycling and regeneration of carbonaceous and porous materials through thermal or solvent treatment. <i>Chemical Engineering Journal</i> , 2019 , 364, 514-529	14.7	35
307	Application of an emulsified polycolloid substrate biobarrier to remediate petroleum-hydrocarbon contaminated groundwater. <i>Chemosphere</i> , 2019 , 219, 444-455	8.4	8
306	Exploring the arsenic removal potential of various biosorbents from water. <i>Environment International</i> , 2019 , 123, 567-579	12.9	89
305	Adsorption characteristics of cesium on the clay minerals: Structural change under wetting and drying condition. <i>Geoderma</i> , 2019 , 340, 49-54	6.7	19
304	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. <i>Environmental Pollution</i> , 2019 , 247, 410-420	9.3	97
303	Porous biochar composite assembled with ternary needle-like iron-manganese-sulphur hybrids for high-efficiency lead removal. <i>Bioresource Technology</i> , 2019 , 272, 415-420	11	56

302	Synthesis of functionalised biochar using red mud, lignin, and carbon dioxide as raw materials. <i>Chemical Engineering Journal</i> , 2019 , 361, 1597-1604	14.7	43
301	Wetland plant microbial fuel cells for remediation of hexavalent chromium contaminated soils and electricity production. <i>Journal of Hazardous Materials</i> , 2019 , 365, 137-145	12.8	57
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295	Biochar application to low fertility soils: A review of current status, and future prospects. <i>Geoderma</i> , 2019 , 337, 536-554	6.7	357
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293	Metal organic frameworks as potent treatment media for odorants and volatiles in air. <i>Environmental Research</i> , 2019 , 168, 336-356	7.9	29
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290	Preparation of nitrogen-doped Cu-biochar and its application into catalytic reduction of p-nitrophenol. <i>Environmental Geochemistry and Health</i> , 2019 , 41, 1729-1737	4.7	15
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286	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. <i>Catalysis Today</i> , 2018 , 314, 52-61	6.3	63
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282	Environmental and technical feasibility study of upcycling wood waste into cement-bonded particleboard. <i>Construction and Building Materials</i> , 2018 , 173, 474-480	6.7	28
281	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. <i>Chemosphere</i> , 2018 , 205, 178-187	8.4	45
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254	Simultaneous application of oxalic acid and dithionite for enhanced extraction of arsenic bound to amorphous and crystalline iron oxides. <i>Journal of Hazardous Materials</i> , 2018 , 354, 91-98	12.8	14
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243	Biofiltration of hydrogen sulfide: Trends and challenges. <i>Journal of Cleaner Production</i> , 2018 , 187, 131-143	10.3	75
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166	Sustainability likelihood of remediation options for metal-contaminated soil/sediment. <i>Chemosphere</i> , 2017 , 174, 421-427	8.4	13
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164	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. <i>Chemosphere</i> , 2017 , 176, 315-323	8.4	80
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162	Simultaneous removal of atrazine and copper using polyacrylic acid-functionalized magnetic ordered mesoporous carbon from water: adsorption mechanism. <i>Scientific Reports</i> , 2017 , 7, 43831	4.9	41
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159	Conversion of biomass to hydroxymethylfurfural: A review of catalytic systems and underlying mechanisms. <i>Bioresource Technology</i> , 2017 , 238, 716-732	11	293

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157	Arsenic-containing soil from geogenic source in Hong Kong: Leaching characteristics and stabilization/solidification. <i>Chemosphere</i> , 2017 , 182, 31-39	8.4	87
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148	Effects of individual and combined toxicity of bisphenol A, dibutyl phthalate and cadmium on oxidative stress and genotoxicity in HepG 2 cells. <i>Food and Chemical Toxicology</i> , 2017 , 105, 73-81	4.7	42
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142	Synthesis of Pd/Au bimetallic nanoparticle-loaded ultrathin graphitic carbon nitride nanosheets for highly efficient catalytic reduction of p-nitrophenol. <i>Journal of Colloid and Interface Science</i> , 2017 , 490, 834-843	9.3	57
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128	Bio-mimicking TiO ₂ architectures for enhanced photocatalytic activity under UV and visible light. <i>RSC Advances</i> , 2017 , 7, 39098-39108	3.7	5
127	Fate of metals before and after chemical extraction of incinerated sewage sludge ash. <i>Chemosphere</i> , 2017 , 186, 350-359	8.4	19
126	Mobile phosphorus stratification in sediments by aluminum immobilization. <i>Chemosphere</i> , 2017 , 186, 644-651	8.4	35
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15	Kinetic interactions of EDDS with soils. 2. Metal-EDDS complexes in uncontaminated and metal contaminated soils. <i>Environmental Science & Technology</i> , 2009 , 43, 837-42	10.3	68

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13	Adsorption of Methylene Blue and Phenol by Wood Waste Derived Activated Carbon. <i>Journal of Environmental Engineering, ASCE</i> , 2008 , 134, 338-345	2	23
12	Removal of Pb by EDTA-washing in the presence of hydrophobic organic contaminants or anionic surfactant. <i>Journal of Hazardous Materials</i> , 2008 , 155, 433-9	12.8	34
11	Modeling the transport of metals with rate-limited EDTA-promoted extraction and dissolution during EDTA-flushing of copper-contaminated soils. <i>Environmental Science & Technology</i> , 2007 , 41, 3660-6	10.3	34
10	Modeling Cadmium Transport in Soils Using Sequential Extraction, Batch, and Miscible Displacement Experiments. <i>Soil Science Society of America Journal</i> , 2007 , 71, 674-681	2.5	27
9	Activated Carbon Produced from Waste Wood Pallets: Adsorption of Three Classes of Dyes. <i>Water, Air, and Soil Pollution</i> , 2007 , 184, 141-155	2.6	71
8	Renewable Energy Generation by Full-Scale Biomass Gasification System Using Agricultural and Forestal Residues. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , 2007 , 11, 177-183		9
7	Disparity of Cadmium Transport Behavior in Soils at Different Temperatures. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , 2007 , 11, 97-105		1
6	Effect of amorphous silica and silica sand on removal of chromium(VI) by zero-valent iron. <i>Chemosphere</i> , 2007 , 66, 858-65	8.4	106
5	Removal of Pb and MDF from contaminated soils by EDTA- and SDS-enhanced washing. <i>Chemosphere</i> , 2007 , 66, 2025-34	8.4	46
4	Copper extraction effectiveness and soil dissolution issues of EDTA-flushing of artificially contaminated soils. <i>Chemosphere</i> , 2007 , 68, 234-43	8.4	97
3	Influence of Pore-Water Velocity on Transport Behavior of Cadmium: Equilibrium versus Nonequilibrium. <i>Practice Periodical of Hazardous, Toxic and Radioactive Waste Management</i> , 2006 , 10, 162-170		7
2	Competitive Cu and Cd sorption and transport in soils: a combined batch kinetics, column, and sequential extraction study. <i>Environmental Science & Technology</i> , 2006 , 40, 6655-61	10.3	80
1	Effects of lead pollution on soil microbial community diversity and biomass and on invertase activity. <i>Soil Ecology Letters</i> , 1	2.7	0