

Daniel C.W. Tsang

List of Publications by Year in descending order

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Version: 2024-02-01

808
papers

68,363
citations

369

135
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2332

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all docs

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times ranked

35762
citing authors

#	ARTICLE	IF	CITATIONS
1	Vinasse-based biochar magnetic composites: adsorptive removal of tetracycline in aqueous solutions. <i>Environmental Science and Pollution Research</i> , 2023, 30, 8916-8927.	5.3	5
2	Effects of lead pollution on soil microbial community diversity and biomass and on invertase activity. <i>Soil Ecology Letters</i> , 2023, 5, 118-127.	4.5	7
3	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. <i>Critical Reviews in Environmental Science and Technology</i> , 2022, 52, 675-726.	12.8	196
4	Multifunctional applications of biochar beyond carbon storage. <i>International Materials Reviews</i> , 2022, 67, 150-200.	19.3	245
5	Biochar composites: Emerging trends, field successes and sustainability implications. <i>Soil Use and Management</i> , 2022, 38, 14-38.	4.9	73
6	Cytotoxicity of stabilized/solidified municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022, 424, 127369.	12.4	29
7	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.	8.0	10
8	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. <i>Journal of Hazardous Materials</i> , 2022, 422, 126843.	12.4	220
9	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.	12.4	82
10	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. <i>Journal of Hazardous Materials</i> , 2022, 421, 126647.	12.4	32
11	Designing novel magnesium oxysulfate cement for stabilization/solidification of municipal solid waste incineration fly ash. <i>Journal of Hazardous Materials</i> , 2022, 423, 127025.	12.4	89
12	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.	8.0	16
13	Green remediation of benzene contaminated groundwater using persulfate activated by biochar composite loaded with iron sulfide minerals. <i>Chemical Engineering Journal</i> , 2022, 429, 132292.	12.7	39
14	Synergistic effects of blending seafood wastes as Co-pyrolysis feedstock on syngas production and biochar properties. <i>Chemical Engineering Journal</i> , 2022, 429, 132487.	12.7	11
15	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. <i>Chemical Engineering Journal</i> , 2022, 428, 131967.	12.7	50
16	Co-pyrolysis route of <i>Chlorella</i> sp. and bauxite tailings to fabricate metal-biochar as persulfate activator. <i>Chemical Engineering Journal</i> , 2022, 428, 132578.	12.7	29
17	Novel insights into the adsorption of organic contaminants by biochar: A review. <i>Chemosphere</i> , 2022, 287, 132113.	8.2	97
18	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.	12.4	37

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19	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.	8.2	42
20	Critical factors for levulinic acid production from starch-rich food waste: solvent effects, reaction pressure, and phase separation. <i>Green Chemistry</i> , 2022, 24, 163-175.	9.0	29
21	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> , 2022, 424, 127575.	12.4	6
22	Interactions between biochar and clay minerals in changing biochar carbon stability. <i>Science of the Total Environment</i> , 2022, 809, 151124.	8.0	33
23	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. <i>Environmental Research</i> , 2022, 207, 112179.	7.5	75
24	Roles of biochar in cement-based stabilization/solidification of municipal solid waste incineration fly ash. <i>Chemical Engineering Journal</i> , 2022, 430, 132972.	12.7	98
25	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> , 2022, 812, 151467.	8.0	14
26	Activation of peroxydisulfate by ball-milled γ -FeOOH/biochar composite for phenol removal: Component contribution and internal mechanisms. <i>Environmental Pollution</i> , 2022, 293, 118596.	7.5	21
27	Catalytic co-hydrothermal carbonization of food waste digestate and yard waste for energy application and nutrient recovery. <i>Bioresource Technology</i> , 2022, 344, 126395.	9.6	67
28	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. <i>Journal of Hazardous Materials</i> , 2022, 425, 127906.	12.4	83
29	Biochar-augmented carbon-negative concrete. <i>Chemical Engineering Journal</i> , 2022, 431, 133946.	12.7	74
30	Mechanochemical modification of biochar-attapulgite nanocomposites for cadmium removal: Performance and mechanisms. <i>Biochemical Engineering Journal</i> , 2022, 179, 108332.	3.6	10
31	Magnetic $MgFe_2O_4$ /biochar derived from pomelo peel as a persulfate activator for levofloxacin degradation: Effects and mechanistic consideration. <i>Bioresource Technology</i> , 2022, 346, 126547.	9.6	67
32	Chrome-free synergistic tanning system based on biomass-derived hydroxycarboxylic acid-zirconium complexes. <i>Journal of Cleaner Production</i> , 2022, 336, 130428.	9.3	24
33	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.	7.9	36
34	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> , 2022, 426, 128123.	12.4	20
35	Mg-Fe LDH-coated biochars for metal(loid) removal: Surface complexation modeling and structural change investigations. <i>Chemical Engineering Journal</i> , 2022, 432, 134360.	12.7	22
36	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism. <i>Journal of Hazardous Materials</i> , 2022, 427, 128117.	12.4	16

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37	Evaluation of long-term carbon sequestration of biochar in soil with biogeochemical field model. <i>Science of the Total Environment</i> , 2022, 822, 153576.	8.0	24
38	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.	2.6	6
39	Overview of hazardous waste treatment and stabilization/solidification technology. , 2022, , 1-14.		4
40	Biochar for green and sustainable stabilization/solidification. , 2022, , 65-73.		1
41	Efficient removal of pefloxacin from aqueous solution by acidâ€“alkali modified sludge-based biochar: adsorption kinetics, isotherm, thermodynamics, and mechanism. <i>Environmental Science and Pollution Research</i> , 2022, 29, 43201-43211.	5.3	7
42	Future research directions for sustainable remediation. , 2022, , 555-564.		0
43	Evaluating comprehensive carbon emissions of solidification/stabilization technologies: a case study. , 2022, , 517-530.		0
44	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.	8.0	26
45	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, 822, 153483.	8.0	51
46	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, 56, 1724-1735.	10.0	40
47	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO ₂ capture. <i>Green Chemistry</i> , 2022, 24, 1494-1504.	9.0	51
48	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.	2.2	0
49	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.	7.5	15
50	Stoichiometric carbocatalysis via epoxide-like Câˆ“Sâˆ“O configuration on sulfur-doped biochar for environmental remediation. <i>Journal of Hazardous Materials</i> , 2022, 428, 128223.	12.4	25
51	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.	8.2	26
52	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.	12.4	67
53	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity. <i>Science of the Total Environment</i> , 2022, 824, 153768.	8.0	8
54	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning. <i>Environmental Science & Technology</i> , 2022, 56, 4187-4198.	10.0	138

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55	Development of phosphorus composite biochar for simultaneous enhanced carbon sink and heavy metal immobilization in soil. <i>Science of the Total Environment</i> , 2022, 831, 154845.	8.0	28
56	Biochar-based slow-release of fertilizers for sustainable agriculture: A mini review. <i>Environmental Science and Ecotechnology</i> , 2022, 10, 100167.	13.5	90
57	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.	12.4	10
58	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.	7.9	42
59	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. <i>Journal of Hazardous Materials</i> , 2022, 430, 128503.	12.4	45
60	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.	12.4	83
61	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar. <i>Chemosphere</i> , 2022, 299, 134426.	8.2	9
62	Valorizing plastic toy wastes to flammable gases through CO ₂ -mediated pyrolysis with a Co-based catalyst. <i>Journal of Hazardous Materials</i> , 2022, 434, 128850.	12.4	3
63	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.	12.7	23
64	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.	12.6	54
65	Source tracing with cadmium isotope and risk assessment of heavy metals in sediment of an urban river, China. <i>Environmental Pollution</i> , 2022, 305, 119325.	7.5	23
66	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.	12.7	11
67	Enhancing microplastics biodegradation during composting using livestock manure biochar. <i>Environmental Pollution</i> , 2022, 306, 119339.	7.5	29
68	Investigations of the Mechanical Properties and Durability of Reactive Powder Concrete Containing Waste Fly Ash. <i>Buildings</i> , 2022, 12, 560.	3.1	16
69	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. <i>Renewable and Sustainable Energy Reviews</i> , 2022, 163, 112515.	16.4	87
70	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives. <i>Bioresource Technology</i> , 2022, 355, 127303.	9.6	50
71	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, 836, 155421.	8.0	30
72	Biochar and sustainable development goals. , 2022, , 15-22.		6

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73	Biocharsâ€™ potential role in the remediation, revegetation, and restoration of contaminated soils. , 2022, , 381-399.		0
74	Partitioning and (im)mobilization of arsenic associated with iron in arsenic-bearing deep subsoil profiles from Hong Kong. Environmental Pollution, 2022, 308, 119527.	7.5	5
75	Catalytic valorisation of various paper wastes into levulinic acid, hydroxymethylfurfural, and furfural: Influence of feedstock properties and ferric chloride. Bioresource Technology, 2022, 357, 127376.	9.6	11
76	Customizing high-performance molten salt biochar from wood waste for CO ₂ /N ₂ separation. Fuel Processing Technology, 2022, 234, 107319.	7.2	23
77	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. Environmental Research, 2022, 212, 113495.	7.5	31
78	p-Arsanilic acid decontamination over a wide pH range using biochar-supported manganese ferrite material as an effective persulfate catalyst: Performances and mechanisms. Biochar, 2022, 4, .	12.6	23
79	Mobilization of contaminants: Potential for soil remediation and unintended consequences. Science of the Total Environment, 2022, 839, 156373.	8.0	43
80	Engineered biochar for environmental decontamination in aquatic and soil systems: a review. , 2022, 1, .		93
81	Waste-derived biochar for water pollution control and sustainable development. Nature Reviews Earth & Environment, 2022, 3, 444-460.	29.7	233
82	Oil spills enhanced dispersion and transport of microplastics in sea water and sand at coastal beachheads. Journal of Hazardous Materials, 2022, 436, 129312.	12.4	4
83	Beneficial use of Fe-impregnated bentonite as a catalyst for pyrolysis of grass cut into syngas, bio-oil and biochar. Chemical Engineering Journal, 2022, 448, 137502.	12.7	34
84	Designing Magnesium Phosphate Cement for Stabilization/Solidification of Zn-Rich Electroplating Sludge. Environmental Science & Technology, 2022, 56, 9398-9407.	10.0	20
85	Sustainable Valorization of E-Waste Plastic through Catalytic Pyrolysis Using CO ₂ . ACS Sustainable Chemistry and Engineering, 2022, 10, 8443-8451.	6.7	8
86	A sustainable reuse strategy of converting waste activated sludge into biochar for contaminants removal from water: Modifications, applications and perspectives. Journal of Hazardous Materials, 2022, 438, 129437.	12.4	80
87	Combined acid pretreatment and co-hydrothermal carbonization to enhance energy recovery from food waste digestate. Energy Conversion and Management, 2022, 266, 115855.	9.2	36
88	Biochar as carbon sequestration material combines with sewage sludge incineration ash to prepare lightweight concrete. Construction and Building Materials, 2022, 343, 128116.	7.2	24
89	Zero-waste strategy by means of valorization of bread waste. Journal of Cleaner Production, 2022, 365, 132795.	9.3	16
90	Ecoenzymatic stoichiometry reveals stronger microbial carbon and nitrogen limitation in biochar amendment soils: A meta-analysis. Science of the Total Environment, 2022, 838, 156532.	8.0	16

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91	Redox-induced transformation of potentially toxic elements with organic carbon in soil. , 2022, 1, .		42
92	Life-cycle assessment of pyrolysis processes for sustainable production of biochar from agro-residues. Bioresource Technology, 2022, 360, 127601.	9.6	60
93	Removal of nanoplastics in water treatment processes: A review. Science of the Total Environment, 2022, 845, 157168.	8.0	38
94	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. Critical Reviews in Environmental Science and Technology, 2021, 51, 2531-2566.	12.8	50
95	Sustainable use of biochar for resource recovery and pharmaceutical removal from human urine: A critical review. Critical Reviews in Environmental Science and Technology, 2021, 51, 3016-3048.	12.8	18
96	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.	12.8	50
97	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.	12.8	50
98	Recyclable aqueous metal adsorbent: Synthesis and Cu(II) sorption characteristics of ternary nanocomposites of Fe ₃ O ₄ nanoparticles@graphene/poly-N-phenylglycine nanofibers. Journal of Hazardous Materials, 2021, 401, 123283.	12.4	28
99	Highly efficient removal of thallium in wastewater by MnFe ₂ O ₄ -biochar composite. Journal of Hazardous Materials, 2021, 401, 123311.	12.4	142
100	Environmental fate, toxicity and risk management strategies of nanoplastics in the environment: Current status and future perspectives. Journal of Hazardous Materials, 2021, 401, 123415.	12.4	325
101	A review on the valorisation of food waste as a nutrient source and soil amendment. Environmental Pollution, 2021, 272, 115985.	7.5	76
102	Boron supply alleviates cadmium toxicity in rice (<i>Oryza sativa</i> L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. Chemosphere, 2021, 266, 128938.	8.2	68
103	High-efficiency and low-carbon remediation of zinc contaminated sludge by magnesium oxysulfate cement. Journal of Hazardous Materials, 2021, 408, 124486.	12.4	61
104	Thio-groups decorated covalent triazine frameworks for selective mercury removal. Journal of Hazardous Materials, 2021, 403, 123702.	12.4	60
105	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.	12.4	29
106	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.	12.4	20
107	A review of microplastics aggregation in aquatic environment: Influence factors, analytical methods, and environmental implications. Journal of Hazardous Materials, 2021, 402, 123496.	12.4	184
108	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.	12.4	26

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109	Fe/Al (hydr)oxides engineered biochar for reducing phosphorus leaching from a fertile calcareous soil. <i>Journal of Cleaner Production</i> , 2021, 279, 123877.	9.3	72
110	Microscopic mechanism about the selective adsorption of Cr(VI) from salt solution on O-rich and N-rich biochars. <i>Journal of Hazardous Materials</i> , 2021, 404, 124162.	12.4	63
111	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (<i>Solanum lycopersicum</i> L.) by minimizing cobalt uptake. <i>Chemosphere</i> , 2021, 263, 128169.	8.2	88
112	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 135, 110033.	16.4	176
113	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to <i>para</i> -Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 624-629.	13.8	27
114	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. <i>Journal of Cleaner Production</i> , 2021, 280, 124418.	9.3	22
115	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. <i>Chemical Engineering Journal</i> , 2021, 406, 126782.	12.7	119
116	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.	4.7	23
117	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.	11.7	44
118	Valorization of plastics and goethite into iron-carbon composite as persulfate activator for amaranth oxidation. <i>Chemical Engineering Journal</i> , 2021, 407, 127188.	12.7	15
119	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. <i>Science of the Total Environment</i> , 2021, 756, 143866.	8.0	21
120	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.	10.0	105
121	Metal chloride-loaded biochar for phosphorus recovery: Noteworthy roles of inherent minerals in precursor. <i>Chemosphere</i> , 2021, 266, 128991.	8.2	33
122	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021, 289, 125142.	9.3	56
123	Lignin valorization by bacterial genus <i>Pseudomonas</i> : State-of-the-art review and prospects. <i>Bioresource Technology</i> , 2021, 320, 124412.	9.6	60
124	Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. <i>Environmental Pollution</i> , 2021, 272, 116009.	7.5	23
125	Manganese ferrite modified biochar from vinasse for enhanced adsorption of levofloxacin: Effects and mechanisms. <i>Environmental Pollution</i> , 2021, 272, 115968.	7.5	46
126	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. <i>Environmental Pollution</i> , 2021, 270, 116281.	7.5	57

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127	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.	11.3	61
128	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.	12.4	37
129	Emergent thallium exposure from uranium mill tailings. <i>Journal of Hazardous Materials</i> , 2021, 407, 124402.	12.4	71
130	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. <i>Science of the Total Environment</i> , 2021, 756, 143679.	8.0	108
131	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.	6.1	40
132	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.	8.0	69
133	Stabilisation/solidification of municipal solid waste incineration fly ash by phosphate-enhanced calcium aluminate cement. <i>Journal of Hazardous Materials</i> , 2021, 408, 124404.	12.4	85
134	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.	12.4	79
135	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.	12.4	150
136	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.	12.7	23
137	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.	6.7	24
138	Sustainable improvement of soil health utilizing biochar and arbuscular mycorrhizal fungi: A review. <i>Environmental Pollution</i> , 2021, 268, 115549.	7.5	74
139	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils – To mobilize or to immobilize or to degrade?. <i>Journal of Hazardous Materials</i> , 2021, 401, 123892.	12.4	169
140	Arbuscular mycorrhizal fungi-induced mitigation of heavy metal phytotoxicity in metal contaminated soils: A critical review. <i>Journal of Hazardous Materials</i> , 2021, 402, 123919.	12.4	266
141	Magnetic nanocomposite-system for the remediation of lead-contaminated urban surface. <i>E3S Web of Conferences</i> , 2021, 266, 08007.	0.5	0
142	The Fe ₃ O ₄ -modified biochar reduces arsenic availability in soil and arsenic accumulation in indica rice (<i>Oryza sativa</i> L.). <i>Environmental Science and Pollution Research</i> , 2021, 28, 18050-18061.	5.3	22
143	Iron-based materials for removal of arsenic from water. , 2021, , 209-245.		4
144	Magnetic biochar-based composites for removal of recalcitrant pollutants in water. , 2021, , 163-187.		5

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145	Nitrate removal uncertainty in stormwater control measures: Is the design or climate a culprit?. <i>Water Research</i> , 2021, 190, 116781.	11.3	29
146	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.	2.7	8
147	Stress-Strain behaviour of Cement-Stabilized Hong Kong marine deposits. <i>Construction and Building Materials</i> , 2021, 274, 122103.	7.2	35
148	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. <i>Environmental Science & Technology</i> , 2021, 55, 7004-7014.	10.0	112
149	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.	6.0	18
150	An overview on engineering the surface area and porosity of biochar. <i>Science of the Total Environment</i> , 2021, 763, 144204.	8.0	434
151	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. <i>Water Research</i> , 2021, 196, 117011.	11.3	253
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