

Zhengtao Shen

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,627
citations

126858

33
h-index

197736

49
g-index

52
all docs

52
docs citations

52
times ranked

4366
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. <i>Journal of Cleaner Production</i> , 2018, 174, 977-987.	4.6	513
2	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. <i>Science of the Total Environment</i> , 2018, 619-620, 815-826.	3.9	429
3	Microplastics undergo accelerated vertical migration in sand soil due to small size and wet-dry cycles. <i>Environmental Pollution</i> , 2019, 249, 527-534.	3.7	287
4	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. <i>Environmental Science & Technology</i> , 2020, 54, 14797-14814.	4.6	273
5	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. <i>Environment International</i> , 2019, 126, 336-345.	4.8	249
6	Effect of production temperature on lead removal mechanisms by rice straw biochars. <i>Science of the Total Environment</i> , 2019, 655, 751-758.	3.9	214
7	Biochar as green additives in cement-based composites with carbon dioxide curing. <i>Journal of Cleaner Production</i> , 2020, 258, 120678.	4.6	180
8	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. <i>Environment International</i> , 2019, 122, 357-362.	4.8	164
9	Qualitative and quantitative characterisation of adsorption mechanisms of lead on four biochars. <i>Science of the Total Environment</i> , 2017, 609, 1401-1410.	3.9	151
10	Characteristics and mechanisms of nickel adsorption on biochars produced from wheat straw pellets and rice husk. <i>Environmental Science and Pollution Research</i> , 2017, 24, 12809-12819.	2.7	145
11	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. <i>Journal of Cleaner Production</i> , 2019, 226, 540-549.	4.6	139
12	Solidification/Stabilization for Soil Remediation: An Old Technology with New Vitality. <i>Environmental Science & Technology</i> , 2019, 53, 11615-11617.	4.6	131
13	Long-term impact of biochar on the immobilisation of nickel (II) and zinc (II) and the revegetation of a contaminated site. <i>Science of the Total Environment</i> , 2016, 542, 771-776.	3.9	120
14	Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. <i>Chemosphere</i> , 2019, 235, 825-831.	4.2	107
15	Sorption of lead by Salisbury biochar produced from British broadleaf hardwood. <i>Bioresource Technology</i> , 2015, 193, 553-556.	4.8	100
16	Stability of heavy metals in soil washing residue with and without biochar addition under accelerated ageing. <i>Science of the Total Environment</i> , 2018, 619-620, 185-193.	3.9	96
17	Lead contamination in Chinese surface soils: Source identification, spatial-temporal distribution and associated health risks. <i>Critical Reviews in Environmental Science and Technology</i> , 2019, 49, 1386-1423.	6.6	96
18	Field trials of phytomining and phytoremediation: A critical review of influencing factors and effects of additives. <i>Critical Reviews in Environmental Science and Technology</i> , 2020, 50, 2724-2774.	6.6	84

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19	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. <i>Environmental Pollution</i> , 2020, 264, 114687.	3.7	71
20	Mechanisms of biochar assisted immobilization of Pb ²⁺ by bioapatite in aqueous solution. <i>Chemosphere</i> , 2018, 190, 260-266.	4.2	64
21	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6990-7001.	3.2	63
22	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. <i>Environmental Research</i> , 2020, 183, 109152.	3.7	60
23	Assessing long-term stability of cadmium and lead in a soil washing residue amended with MgO-based binders using quantitative accelerated ageing. <i>Science of the Total Environment</i> , 2018, 643, 1571-1578.	3.9	57
24	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. <i>Journal of Cleaner Production</i> , 2021, 289, 125142.	4.6	56
25	Adsorption of methyl tert-butyl ether (MTBE) onto ZSM-5 zeolite: Fixed-bed column tests, breakthrough curve modelling and regeneration. <i>Chemosphere</i> , 2019, 220, 422-431.	4.2	55
26	Phytoremediation: Climate change resilience and sustainability assessment at a coastal brownfield redevelopment. <i>Environment International</i> , 2019, 130, 104945.	4.8	54
27	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. <i>Chemosphere</i> , 2019, 233, 149-156.	4.2	54
28	Effect of biochar on desiccation cracking characteristics of clayey soils. <i>Geoderma</i> , 2020, 364, 114182.	2.3	54
29	Kinetic and equilibrium modelling of MTBE (methyl tert-butyl ether) adsorption on ZSM-5 zeolite: Batch and column studies. <i>Journal of Hazardous Materials</i> , 2018, 347, 461-469.	6.5	52
30	Lead-based paint in children's toys sold on China's major online shopping platforms. <i>Environmental Pollution</i> , 2018, 241, 311-318.	3.7	50
31	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. <i>Environment International</i> , 2019, 131, 104990.	4.8	49
32	Three-year performance of in-situ mass stabilised contaminated site soils using MgO-bearing binders. <i>Journal of Hazardous Materials</i> , 2016, 318, 302-307.	6.5	47
33	A green method for the simultaneous recovery of phosphate and potassium from hydrolyzed urine as value-added fertilizer using wood waste. <i>Resources, Conservation and Recycling</i> , 2020, 157, 104793.	5.3	38
34	Simultaneous reduction and immobilization of Cr(VI) in seasonally frozen areas: Remediation mechanisms and the role of ageing. <i>Journal of Hazardous Materials</i> , 2021, 415, 125650.	6.5	37
35	Salisbury biochar did not affect the mobility or speciation of lead in kaolin in a short-term laboratory study. <i>Journal of Hazardous Materials</i> , 2016, 316, 214-220.	6.5	32
36	Comparison of nickel adsorption on biochars produced from mixed softwood and Miscanthus straw. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14626-14635.	2.7	30

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37	GMCs stabilized/solidified Pb/Zn contaminated soil under different curing temperature: Physical and microstructural properties. <i>Chemosphere</i> , 2020, 239, 124738.	4.2	29
38	Stabilization-based soil remediation should consider long-term challenges. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	28
39	The need to prioritize sustainable phosphate-based fertilizers. <i>Soil Use and Management</i> , 2020, 36, 351-354.	2.6	28
40	Effect of production temperature and particle size of rice husk biochar on mercury immobilization and erosion prevention of a mercury contaminated soil. <i>Journal of Hazardous Materials</i> , 2021, 420, 126646.	6.5	22
41	Impact of biochar on the desiccation cracking behavior of silty clay and its mechanisms. <i>Science of the Total Environment</i> , 2021, 794, 148608.	3.9	20
42	Effects of phosphate-solubilizing bacteria on phosphorous release and sorption on montmorillonite. <i>Applied Clay Science</i> , 2019, 181, 105227.	2.6	18
43	GMCs stabilized/solidified Pb/Zn contaminated soil under different curing temperature: leachability and durability. <i>Environmental Science and Pollution Research</i> , 2019, 26, 26963-26971.	2.7	16
44	The geotechnical properties of GMZ buffer/backfill material used in high-level radioactive nuclear waste geological repository: a review. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	14
45	An evaluation of stabilised/solidified contaminated model soil using PC-based and MgO-based binders under semi-dynamic leaching conditions. <i>Environmental Science and Pollution Research</i> , 2018, 25, 16050-16060.	2.7	13
46	Effects of biochar particle size and dosage on the desiccation cracking behavior of a silty clay. <i>Science of the Total Environment</i> , 2022, 837, 155788.	3.9	13
47	MgO-GGBS Binder-Stabilized/Solidified PAE-Contaminated Soil: Strength and Leachability in Early Stage. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2021, 147, .	1.5	9
48	Evaluating the potential of charred bone as P hotspot assisted by phosphate-solubilizing bacteria. <i>Science of the Total Environment</i> , 2019, 696, 133965.	3.9	8
49	The use of biochar for sustainable treatment of contaminated soils. , 2020, , 119-167.		5
50	Effects of biochar and polypropylene fibre on mechanical behaviour of cement-solidified sludge. <i>Soil Use and Management</i> , 2022, 38, 1667-1678.	2.6	2
51	Natural or engineered clays for stabilization/solidification. , 2022, , 31-47.		1
52	Performance Evaluation of Stabilised/Solidified Contaminated Model Soil Using PC-Based and MgO-Based Binders. <i>Environmental Science and Engineering</i> , 2019, , 661-668.	0.1	0