Zhengtao Shen

List of Publications by Year
in descending order

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52 papers	4,627 citations	145106 33 h-index	223390 49 g-index
52 all docs	52 docs citations	52 times ranked	4871 citing authors

#	Article	IF	Citations
1	Natural or engineered clays for stabilization/solidification. , 2022, , 31-47.		1
2	Effects of biochar particle size and dosage on the desiccation cracking behavior of a silty clay. Science of the Total Environment, 2022, 837, 155788.	3.9	13
3	Effects of biochar and polypropylene fibre on mechanical behaviour of cementâ€solidified sludge. Soil Use and Management, 2022, 38, 1667-1678.	2.6	2
4	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. Journal of Cleaner Production, 2021, 289, 125142.	4.6	56
5	MgO-GGBS Binderâ€“Stabilized/Solidified PAE-Contaminated Soil: Strength and Leachability in Early Stage. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	9
6	Simultaneous reduction and immobilization of Cr(VI) in seasonally frozen areas: Remediation mechanisms and the role of ageing. Journal of Hazardous Materials, 2021, 415, 125650.	6.5	37
7	Effect of production temperature and particle size of rice husk biochar on mercury immobilization and erosion prevention of a mercury contaminated soil. Journal of Hazardous Materials, 2021, 420, 126646.	6.5	22
8	Impact of biochar on the desiccation cracking behavior of silty clay and its mechanisms. Science of the Total Environment, 2021, 794, 148608.	3.9	20
9	GMCs stabilized/solidified Pb/Zn contaminated soil under different curing temperature: Physical and microstructural properties. Chemosphere, 2020, 239, 124738.	4.2	29
10	Field trials of phytomining and phytoremediation: A critical review of influencing factors and effects of additives. Critical Reviews in Environmental Science and Technology, 2020, 50, 2724-2774.	6.6	84
11	The need to prioritize sustainable phosphateâ€based fertilizers. Soil Use and Management, 2020, 36, 351-354.	2.6	28
12	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. Environmental Science & Technology, 2020, 54, 14797-14814.	4.6	273
13	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. ACS Sustainable Chemistry and Engineering, 2020, 8, 6990-7001.	3.2	63
14	Biochar as green additives in cement-based composites with carbon dioxide curing. Journal of Cleaner Production, 2020, 258, 120678.	4.6	180
15	Effect of biochar on desiccation cracking characteristics of clayey soils. Geoderma, 2020, 364, 114182.	2.3	54
16	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. Environmental Research, 2020, 183, 109152.	3.7	60
17	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. Environmental Pollution, 2020, 264, 114687.	3.7	71
18	A green method for the simultaneous recovery of phosphate and potassium from hydrolyzed urine as value-added fertilizer using wood waste. Resources, Conservation and Recycling, 2020, 157, 104793.	5.3	38

#	Article	IF	Citations
19	The use of biochar for sustainable treatment of contaminated soils. , 2020, , 119-167.		5
20	GMCs stabilized/solidified Pb/Zn contaminated soil under different curing temperature: leachability and durability. Environmental Science and Pollution Research, 2019, 26, 26963-26971.	2.7	16
21	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. Environment International, 2019, 131, 104990.	4.8	49
22	Effects of phosphate-solubilizing bacteria on phosphorous release and sorption on montmorillonite. Applied Clay Science, 2019, 181, 105227.	2.6	18
23	Phytoremediation: Climate change resilience and sustainability assessment at a coastal brownfield redevelopment. Environment International, 2019, 130, 104945.	4.8	54
24	Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. Chemosphere, 2019, 235, 825-831.	4.2	107
25	Evaluating the potential of charred bone as P hotspot assisted by phosphate-solubilizing bacteria. Science of the Total Environment, 2019, 696, 133965.	3.9	8
26	Solidification/Stabilization for Soil Remediation: An Old Technology with New Vitality. Environmental Science & Technology, 2019, 53, 11615-11617.	4.6	131
27	Lead contamination in Chinese surface soils: Source identification, spatial-temporal distribution and associated health risks. Critical Reviews in Environmental Science and Technology, 2019, 49, 1386-1423.	6.6	96
28	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. Chemosphere, 2019, 233, 149-156.	4.2	54
29	Microplastics undergo accelerated vertical migration in sand soil due to small size and wet-dry cycles. Environmental Pollution, 2019, 249, 527-534.	3.7	287
30	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. Journal of Cleaner Production, 2019, 226, 540-549.	4.6	139
31	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. Environment International, 2019, 126, 336-345.	4.8	249
32	Adsorption of methyl tert-butyl ether (MTBE) onto ZSM-5 zeolite: Fixed-bed column tests, breakthrough curve modelling and regeneration. Chemosphere, 2019, 220, 422-431.	4.2	55
33	Effect of production temperature on lead removal mechanisms by rice straw biochars. Science of the Total Environment, 2019, 655, 751-758.	3.9	214
34	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. Environment International, 2019, 122, 357-362.	4.8	164
35	Performance Evaluation of Stabilised/Solidified Contaminated Model Soil Using PC-Based and MgO-Based Binders. Environmental Science and Engineering, 2019, , 661-668.	0.1	0
36	Stabilization-based soil remediation should consider long-term challenges. Frontiers of Environmental Science and Engineering, 2018, 12, 1.	3.3	28

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37	Kinetic and equilibrium modelling of MTBE (methyl tert-butyl ether) adsorption on ZSM-5 zeolite: Batch and column studies. Journal of Hazardous Materials, 2018, 347, 461-469.	6.5	52
38	An evaluation of stabilised/solidified contaminated model soil using PC-based and MgO-based binders under semi-dynamic leaching conditions. Environmental Science and Pollution Research, 2018, 25, 16050-16060.	2.7	13
39	Comparison of nickel adsorption on biochars produced from mixed softwood and Miscanthus straw. Environmental Science and Pollution Research, 2018, 25, 14626-14635.	2.7	30
40	Mechanisms of biochar assisted immobilization of Pb2+ by bioapatite in aqueous solution. Chemosphere, 2018, 190, 260-266.	4.2	64
41	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. Science of the Total Environment, 2018, 619-620, 815-826.	3.9	429
42	Stability of heavy metals in soil washing residue with and without biochar addition under accelerated ageing. Science of the Total Environment, 2018, 619-620, 185-193.	3.9	96
43	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. Journal of Cleaner Production, 2018, 174, 977-987.	4.6	513
44	Lead-based paint in children's toys sold on China's major online shopping platforms. Environmental Pollution, 2018, 241, 311-318.	3.7	50
45	Assessing long-term stability of cadmium and lead in a soil washing residue amended with MgO-based binders using quantitative accelerated ageing. Science of the Total Environment, 2018, 643, 1571-1578.	3.9	57
46	Characteristics and mechanisms of nickel adsorption on biochars produced from wheat straw pellets and rice husk. Environmental Science and Pollution Research, 2017, 24, 12809-12819.	2.7	145
47	The geotechnical properties of GMZ buffer/backfill material used in high-level radioactive nuclear waste geological repository: a review. Environmental Earth Sciences, 2017, 76, 1.	1.3	14
48	Qualitative and quantitative characterisation of adsorption mechanisms of lead on four biochars. Science of the Total Environment, 2017, 609, 1401-1410.	3.9	151
49	Salisbury biochar did not affect the mobility or speciation of lead in kaolin in a short-term laboratory study. Journal of Hazardous Materials, 2016, 316, 214-220.	6.5	32
50	Three-year performance of in-situ mass stabilised contaminated site soils using MgO-bearing binders. Journal of Hazardous Materials, 2016, 318, 302-307.	6.5	47
51	Long-term impact of biochar on the immobilisation of nickel (II) and zinc (II) and the revegetation of a contaminated site. Science of the Total Environment, 2016, 542, 771-776.	3.9	120
52	Sorption of lead by Salisbury biochar produced from British broadleaf hardwood. Bioresource Technology, 2015, 193, 553-556.	4.8	100