

# Fei Jin

## List of Publications by Year in descending order

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Version: 2024-02-01

69  
papers

5,153  
citations

57758

44  
h-index

138484

58  
g-index

70  
all docs

70  
docs citations

70  
times ranked

3338  
citing authors

#	ARTICLE	IF	CITATIONS
1	Engineering properties and microstructural characteristics of cement-stabilized zinc-contaminated kaolin. <i>Canadian Geotechnical Journal</i> , 2014, 51, 289-302.	2.8	283
2	Development of greener alkali-activated cement: utilisation of sodium carbonate for activating slag and fly ash mixtures. <i>Journal of Cleaner Production</i> , 2016, 113, 66-75.	9.3	276
3	Effect of acid rain pH on leaching behavior of cement stabilized lead-contaminated soil. <i>Journal of Hazardous Materials</i> , 2014, 271, 131-140.	12.4	239
4	Strength and drying shrinkage of reactive MgO modified alkali-activated slag paste. <i>Construction and Building Materials</i> , 2014, 51, 395-404.	7.2	230
5	Strength and hydration properties of reactive MgO-activated ground granulated blastfurnace slag paste. <i>Cement and Concrete Composites</i> , 2015, 57, 8-16.	10.7	214
6	Effect of production temperature on lead removal mechanisms by rice straw biochars. <i>Science of the Total Environment</i> , 2019, 655, 751-758.	8.0	214
7	Accelerated carbonation and performance of concrete made with steel slag as binding materials and aggregates. <i>Cement and Concrete Composites</i> , 2017, 83, 138-145.	10.7	194
8	Qualitative and quantitative characterisation of adsorption mechanisms of lead on four biochars. <i>Science of the Total Environment</i> , 2017, 609, 1401-1410.	8.0	151
9	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.	5.3	145
10	New phosphate-based binder for stabilization of soils contaminated with heavy metals: Leaching, strength and microstructure characterization. <i>Journal of Environmental Management</i> , 2014, 146, 179-188.	7.8	132
11	Solidification/Stabilization for Soil Remediation: An Old Technology with New Vitality. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11615-11617.	10.0	131
12	Experimental investigation of influence of acid rain on leaching and hydraulic characteristics of cement-based solidified/stabilized lead contaminated clay. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 195-201.	12.4	130
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.	8.0	120
14	Thermogravimetric study on the hydration of reactive magnesia and silica mixture at room temperature. <i>Thermochimica Acta</i> , 2013, 566, 162-168.	2.7	116
15	Characterisation of different commercial reactive magnesia. <i>Advances in Cement Research</i> , 2014, 26, 101-113.	1.6	113
16	Strength and hydration products of reactive MgO-silica pastes. <i>Cement and Concrete Composites</i> , 2014, 52, 27-33.	10.7	112
17	Characterisation of reactive magnesia and sodium carbonate-activated fly ash/slag paste blends. <i>Construction and Building Materials</i> , 2015, 93, 506-513.	7.2	111
18	Sorption of lead by Salisbury biochar produced from British broadleaf hardwood. <i>Bioresource Technology</i> , 2015, 193, 553-556.	9.6	100

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19	Stabilization and solidification of a heavy metal contaminated site soil using a hydroxyapatite based binder. <i>Construction and Building Materials</i> , 2017, 156, 199-207.	7.2	97
20	Evaluation of novel reactive MgO activated slag binder for the immobilisation of lead and zinc. <i>Chemosphere</i> , 2014, 117, 285-294.	8.2	95
21	Workability, compressibility and hydraulic conductivity of zeolite-amended clayey soil/calcium-bentonite backfills for slurry-trench cutoff walls. <i>Engineering Geology</i> , 2015, 195, 258-268.	6.3	95
22	Three-year performance of in-situ solidified/stabilised soil using novel MgO-bearing binders. <i>Chemosphere</i> , 2016, 144, 681-688.	8.2	89
23	Mechanism of reactive magnesia " ground granulated blastfurnace slag (GGBS) soil stabilization. <i>Canadian Geotechnical Journal</i> , 2016, 53, 773-782.	2.8	87
24	Green remediation of Cd and Hg contaminated soil using humic acid modified montmorillonite: Immobilization performance under accelerated ageing conditions. <i>Journal of Hazardous Materials</i> , 2020, 387, 122005.	12.4	87
25	Stress-strain relation and strength characteristics of cement treated zinc-contaminated clay. <i>Engineering Geology</i> , 2013, 167, 20-26.	6.3	86
26	Mechanical and hydration properties of ground granulated blastfurnace slag pastes activated with MgO-CaO mixtures. <i>Construction and Building Materials</i> , 2014, 69, 101-108.	7.2	85
27	Strength and drying shrinkage of slag paste activated by sodium carbonate and reactive MgO. <i>Construction and Building Materials</i> , 2015, 81, 58-65.	7.2	82
28	The performance of blended conventional and novel binders in the in-situ stabilisation/solidification of a contaminated site soil. <i>Journal of Hazardous Materials</i> , 2015, 285, 46-52.	12.4	82
29	Durability of reactive magnesia-activated slag-stabilized low plasticity clay subjected to drying-wetting cycle. <i>European Journal of Environmental and Civil Engineering</i> , 2016, 20, 215-230.	2.1	81
30	Leaching and microstructural properties of lead contaminated kaolin stabilized by GGBS-MgO in semi-dynamic leaching tests. <i>Construction and Building Materials</i> , 2018, 172, 626-634.	7.2	78
31	Magnesia reactivity on activating efficacy for ground granulated blastfurnace slag for soft clay stabilisation. <i>Applied Clay Science</i> , 2016, 126, 57-62.	5.2	64
32	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.	7.5	60
33	Effects of Different Reactive MgOs on the Hydration of MgO-Activated GGBS Paste. <i>Journal of Materials in Civil Engineering</i> , 2015, 27, .	2.9	58
34	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.	8.0	57
35	The embryotoxicity of ZnO nanoparticles to marine medaka, <i>Oryzias melastigma</i> . <i>Aquatic Toxicology</i> , 2017, 185, 11-18.	4.0	56
36	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.	8.2	55

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37	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.	8.2	54
38	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.	12.4	52
39	Investigation of the properties of MgO recovered from reject brine obtained from desalination plants. <i>Journal of Cleaner Production</i> , 2018, 196, 100-108.	9.3	52
40	Temporal effect of MgO reactivity on the stabilization of lead contaminated soil. <i>Environment International</i> , 2019, 131, 104990.	10.0	49
41	Magnesium sulfate attack on clays stabilised by carbide slag- and magnesia-ground granulated blast furnace slag. <i>Geotechnique Letters</i> , 2015, 5, 306-312.	1.2	48
42	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.	12.4	47
43	Activation of ground granulated blast furnace slag by using calcined dolomite. <i>Construction and Building Materials</i> , 2014, 68, 252-258.	7.2	45
44	Incorporation of reactive magnesia and quicklime in sustainable binders for soil stabilisation. <i>Engineering Geology</i> , 2015, 195, 53-62.	6.3	44
45	Evaluation of Cement Hydration Properties of Cement-Stabilized Lead-Contaminated Soils Using Electrical Resistivity Measurement. <i>Journal of Hazardous, Toxic, and Radioactive Waste</i> , 2011, 15, 312-320.	2.0	43
46	Performance of magnesia-modified sodium carbonate-activated slag/fly ash concrete. <i>Cement and Concrete Composites</i> , 2019, 103, 160-174.	10.7	39
47	Multiscale Study of Sodium Sulfate Soaking Durability of Low Plastic Clay Stabilized by Reactive Magnesia-Activated Ground Granulated Blast-Furnace Slag. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	2.9	35
48	A study of the effect of temperature on the structural strength of a clayey soil using a micropenetrometer. <i>Bulletin of Engineering Geology and the Environment</i> , 2014, 73, 747-758.	3.5	34
49	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.	12.4	32
50	Comparison of nickel adsorption on biochars produced from mixed softwood and Miscanthus straw. <i>Environmental Science and Pollution Research</i> , 2018, 25, 14626-14635.	5.3	30
51	Engineering Properties of Vertical Cutoff Walls Consisting of Reactive Magnesia-Activated Slag and Bentonite: Workability, Strength, and Hydraulic Conductivity. <i>Journal of Materials in Civil Engineering</i> , 2019, 31, .	2.9	26
52	Microstructure and carbon storage capacity of hydrated magnesium carbonates synthesized from different sources and conditions. <i>Journal of CO2 Utilization</i> , 2019, 34, 353-361.	6.8	17
53	The engineering properties and reaction mechanism of MgO-activated slag cement-clayey sand-bentonite (MSB) cutoff wall backfills. <i>Construction and Building Materials</i> , 2021, 271, 121890.	7.2	16
54	Evaluation of Sulfate Resistance of Calcined Dolomite Activated Ground Granulated Blast Furnace Slag. <i>Journal of Materials in Civil Engineering</i> , 2016, 28, .	2.9	13

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55	One-pot synthesis of Mg Al layered double hydroxide (LDH) using MgO and metakaolin (MK) as precursors. <i>Applied Clay Science</i> , 2021, 206, 106070.	5.2	13
56	Influence of wet-dry cycles on vertical cutoff walls made of reactive magnesia-slag-bentonite-soil mixtures. <i>Journal of Zhejiang University: Science A</i> , 2019, 20, 948-960.	2.4	12
57	An Overview of Stabilization/Solidification Technique for Heavy Metals Contaminated Soils. , 2010, , 760-766.		9
58	Strength Comparison of Cement Solidified/Stabilized Soils Contaminated by Lead and Copper. , 2010, , .		8
59	Compressibility of cement-stabilized zinc-contaminated high plasticity clay. <i>Natural Hazards</i> , 2014, 73, 671-683.	3.4	7
60	Effects of biochar-amended alkali-activated slag on the stabilization of coral sand in coastal areas. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, 15, 760-772.	8.1	5
61	Application of Electrical Resistivity For Cement Solidified/Stabilized Heavy Metal Contaminated Soils. , 2010, , 259-264.		4
62	Initial Investigation of Soil Stabilization with Calcined Dolomite-GGBS Blends. , 2014, , .		3
63	Long-term effectiveness of inÂsitu solidification/stabilization. , 2020, , 247-278.		3
64	Magnesium oxychloride cement. , 2020, , 29-74.		3
65	Preliminary Investigation on the Development and Performance of Self-immune and Self-healing Soil-Cement Systems Under Freeze-Thaw Cycles. , 2018, , 84-91.		2
66	Introduction “ Characterization of MgO. , 2020, , 1-10.		1
67	Magnesia in alkali activated cements. , 2020, , 213-241.		1
68	Breakthrough Curve Modelling of ZSM-5 Zeolite Packed Fixed-Bed Columns for the Removal of MTBE. <i>Environmental Science and Engineering</i> , 2019, , 724-730.	0.2	0
69	Sustainable utilization of slags. , 2022, , 321-341.		0