Ning-Jun Jiang

List of Publications by Year
in descending order

48	2,398	304368	329751
papers	citations	22 h-index	37 g-index

51	51	51	1242
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Engineering properties and microstructural characteristics of cement-stabilized zinc-contaminated kaolin. Canadian Geotechnical Journal, 2014, 51, 289-302.	1.4	283
2	The applicability of microbially induced calcite precipitation (MICP) for internal erosion control in gravelâ€“sand mixtures. Geotechnique, 2017, 67, 42-55.	2.2	185
3	Factors affecting the performance of microbial-induced carbonate precipitation (MICP) treated soil: a review. Environmental Earth Sciences, 2020, 79, 1.	1.3	184
4	Microbial induced carbonate precipitation for immobilizing Pb contaminants: Toxic effects on bacterial activity and immobilization efficiency. Science of the Total Environment, 2019, 672, 722-731.	3.9	160
5	Microbially Induced Carbonate Precipitation for Seepage-Induced Internal Erosion Control in Sandâ€“Clay Mixtures. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2017, 143, .	1.5	159
6	Experimental investigation of influence of acid rain on leaching and hydraulic characteristics of cement-based solidified/stabilized lead contaminated clay. Journal of Hazardous Materials, 2012, 225-226, 195-201.	6.5	130
7	Multi-scale laboratory evaluation of the physical, mechanical, and microstructural properties of soft highway subgrade soil stabilized with calcium carbide residue. Canadian Geotechnical Journal, 2016, 53, 373-383.	1.4	124
8	Restraint of Particle Breakage by Biotreatment Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	109
9	Field evaluation of soft highway subgrade soil stabilized with calcium carbide residue. Soils and Foundations, 2016, 56, 301-314.	1.3	103
10	Applicability of Microbial Calcification Method for Sandy-Slope Surface Erosion Control. Journal of Materials in Civil Engineering, 2019, 31, .	1.3	102
11	Ureolytic activities of a urease-producing bacterium and purified urease enzyme in the anoxic condition: Implication for subseafloor sand production control by microbially induced carbonate precipitation (MICP). Ecological Engineering, 2016, 90, 96-104.	1.6	91
12	An experimental study of mitigating coastal sand dune erosion by microbial- and enzymatic-induced carbonate precipitation. Acta Geotechnica, 2021, 16, 467-480.	2.9	82
13	Durability of lightweight alkali-activated ground granulated blast furnace slag (GGBS) stabilized clayey soils subjected to sulfate attack. Applied Clay Science, 2018, 161, 70-75.	2.6	78
14	Physical, Hydraulic, and Mechanical Properties of Clayey Soil Stabilized by Lightweight Alkali-Activated Slag Geopolymer. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	71
15	Effects of acid rain on physical, mechanical and chemical properties of GGBSâ€“MgO-solidified/stabilized Pb-contaminated clayey soil. Acta Geotechnica, 2020, 15, 923-932.	2.9	66
16	Application of microbially induced carbonate precipitation to form bio-cemented artificial sandstone. Journal of Rock Mechanics and Geotechnical Engineering, 2021, , .	3.7	59
17	Erosional behavior of gravel-sand mixtures stabilized by microbially induced calcite precipitation (MICP). Soils and Foundations, 2019, 59, 699-709.	1.3	52
18	Bioâ€mediated soil improvement: The way forward. Soil Use and Management, 2020, 36, 185-188.	2.6	51

#	Article	IF	Citations
19	Bioâ€mediated soil improvement: An introspection into processes, materials, characterization and applications. Soil Use and Management, 2022, 38, 68-93.	2.6	43
20	Bio-mediated method for improving surface erosion resistance of clayey soils. Engineering Geology, 2021, 293, 106295.	2.9	33
21	The effect of enrichment media on the stimulation of native ureolytic bacteria in calcareous sand. International Journal of Environmental Science and Technology, 2020, 17, 1795-1808.	1.8	30
22	Triaxial behavior of cement-stabilized organic matterâ€“disseminated sand. Acta Geotechnica, 2021, 16, 211-220.	2.9	28
23	Environmental geotechnics: challenges and opportunities in the post-Covid-19 world. Environmental Geotechnics, 2021, 8, 172-192.	1.3	23
24	Dynamic behavior of cement-stabilized organic-matter-disseminated sand under cyclic triaxial condition. Soil Dynamics and Earthquake Engineering, 2021, 147, 106777.	1.9	16
25	Deep learning based approach for the instance segmentation of clayey soil desiccation cracks. Computers and Geotechnics, 2022, 146, 104733.	2.3	14
26	Experimental Study of the Mitigation of Soil Internal Erosion by Microbially Induced Calcite Precipitation. , 2014, , .		13
27	Compressibility characteristics of bio-cemented calcareous sand treated through the bio-stimulation approach. Journal of Rock Mechanics and Geotechnical Engineering, 2023, 15, 510-522.	3.7	12
28	Experimental investigation of the compressibility behaviour of cement-solidified/stabilised zinc-contaminated kaolin clay. Geotechnique Letters, 2014, 4, 27-32.	0.6	11
29	Extraction, characterisation and remediation of microplastics from organic solid matrices. Environmental Geotechnics, 0, , 1-34.	1.3	11
30	Undergraduate Geotechnical Engineering Education of the 21st Century. Journal of Professional Issues in Engineering Education and Practice, 2017, 143, .	0.9	10
31	Biochemical, Strength and Erosional Characteristics of Coral Sand Treated by Bio-Stimulated Microbial Induced Calcite Precipitation. Acta Geotechnica, 2022, 17, 4217-4229.	2.9	8
32	Effect of aluminate content in cement on the long-term sulfate resistance of cement stabilized sand. Marine Georesources and Geotechnology, 2020, 38, 844-853.	1.2	7
33	Geotechnical and geoenvironmental engineering education during the pandemic. Environmental Geotechnics, 2021, 8, 233-243.	1.3	7
34	Discussion of â€œAbout calcium carbonate precipitation on sand biocementationâ€•by Rafaela Cardoso, Rita Pedreira, Sofia O.D. Duarte, and Gabriel A. Monteiro. Engineering Geology, 2021, 282, 105726.	2.9	6
35	Effects of biochar-amended alkali-activated slag on the stabilization of coral sand in coastal areas. Journal of Rock Mechanics and Geotechnical Engineering, 2023, 15, 760-772.	3.7	5
36	Investigations on biosorption and biogenic calcite precipitation in sands. Soil Use and Management, 2020, 37, 772.	2.6	4

#	Article	IF	Citations
37	Stabilization of Calcareous Sand by Applying the Admixture of Alkali-Activated Slag (AAS) and Biochar. , 2020, , .		4
38	Compression Behavior of Zinc Contaminated Clayey Soils Solidified with Cement. , 2012, , .		3
39	Proposal for an initial screening method for identifying microplastics in marine sediments. Scientific Reports, 2021, 11, 20651.	1.6	3
40	Stabilization/solidification of contaminated soils: a case study. , 2022, , 75-92.		3
41	Automated Graffiti Detection: A Novel Approach to Maintaining Historical Architecture in Communities. Applied Sciences (Switzerland), 2022, 12, 2983.	1.3	2
42	Effect of Acid Rain on Chemical and Hydraulic Properties of Cement Solidified/Stabilized Lead Contaminated Marine Soft Clay. , 2012, , .		1
43	A High-Pressure Plane-Strain Testing System to Evaluate Microbially Induced Calcite Precipitation as a Sand Production Control Method. , 2018, , 499-506.		1
44	Enriching Indigenous Ureolytic Bacteria in Coastal Beach Sand. Environmental Science and Engineering, 2019, , 340-347.	0.1	1
45	On the Compressibility of Cement Stabilized Zinc-Contaminated Kaolin Clay. , 2013, , .		0
46	Special Issue on â€œMaterials and Processes for Ground Engineering Infrastructureâ€• International Journal of Geosynthetics and Ground Engineering, 2020, 6, 1.	0.9	0
47	A preliminary study of carbonate sand stabilization by bio-stimulation based MICP method. Japanese Geotechnical Society Special Publication, 2021, 9, 282-286.	0.2	0
48	A laboratory investigation of coastal sand stabilization using biochar-enhanced alkali-activated slag. Japanese Geotechnical Society Special Publication, 2021, 9, 292-295.	0.2	0