Jiankun Liu

List of Publications by Year in descending order

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64 papers	1,555 citations	331670 21 h-index	330143 37 g-index
66 all docs	66 docs citations	66 times ranked	946 citing authors

#	Article	IF	Citations
1	Behavior of Compacted Collapsible Soil After Adding Calcium Chloride. Lecture Notes in Civil Engineering, 2022, , 387-399.	0.4	0
2	Impacts of organic matter and loading methods on one-dimensional compression behavior of calcareous sand. Marine Georesources and Geotechnology, 2022, 40, 1046-1059.	2.1	5
3	Proposed application of a geothermal heat pump technique to address frost damage of embankments in cold regions. Cold Regions Science and Technology, 2022, 195, 103474.	3.5	9
4	Fractal dimension, particle shape, and particle breakage analysis for calcareous sand. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	3.5	16
5	Prediction of dynamic pore water pressure for calcareous sand mixed with fine-grained soil under cyclic loading. Soil Dynamics and Earthquake Engineering, 2022, 157, 107276.	3.8	7
6	Mechanical characteristics and microstructure study of saline soil stabilized by quicklime after curing and freeze-thaw cycle. Cold Regions Science and Technology, 2022, 201, 103625.	3.5	10
7	Development of a novel vapor compression refrigeration system (VCRS) for permafrost cooling. Cold Regions Science and Technology, 2021, 181, 103173.	3.5	11
8	Experimental study on the correlation between the partial and total salt content in saline gravel using ion chromatography. Transportation Geotechnics, 2021, 26, 100424.	4.5	3
9	A Simplified Model for the Phase Composition Curve of Saline Soils Considering the Second Phase Transition. Water Resources Research, 2021, 57, .	4.2	7
10	Influence of specific surface area on sulfate attackâ€“induced expansion of cement-treated aggregates. Bulletin of Engineering Geology and the Environment, 2021, 80, 4841-4854.	3.5	3
11	One-dimensional compression feature and particle crushability behavior of dry calcareous sand considering fine-grained soil content and relative compaction. Bulletin of Engineering Geology and the Environment, 2021, 80, 4049-4065.	3.5	23
12	Calculation for Frost Jacking Resistance of Single Helical Steel Piles in Cohesive Soils. Journal of Cold Regions Engineering - ASCE, 2021, 35, .	1.1	5
13	Effects of microencapsulated phase change material characteristics on the thermal performance and mechanical behaviour of silty clay. Transportation Geotechnics, 2021, 29, 100584.	4.5	10
14	Numerical modeling of the thermal performance of soil containing microencapsulated PCM. Construction and Building Materials, 2021, 298, 123865.	7.2	13
15	A method for frost jacking prediction of single pile in permafrost. Acta Geotechnica, 2020, 15, 455-470.	5.7	16
16	A frost heaving mitigation method with the rubber-asphalt-fiber mixture cylinder. Cold Regions Science and Technology, 2020, 169, 102912.	3.5	8
17	Study of the thermal field of a mixture of soil and PCM materials with simulation of the warming effect during a phase change. Construction and Building Materials, 2020, 262, 120818.	7.2	10
18	Relationships between shear strength parameters and microstructure of alkaline-contaminated red clay. Environmental Science and Pollution Research, 2020, 27, 33848-33862.	5.3	7

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19	Dynamic characteristics of warm frozen soil under direct shear test-comparison with dynamic triaxial test. Soil Dynamics and Earthquake Engineering, 2020, 133, 106114.	3.8	21
20	Experimental Study on Salt Expansion Characteristics of Coarse-Grained Sulfate Soils. Journal of Cold Regions Engineering - ASCE, 2020, 34, .	1.1	6
21	Experimental and numerical investigation on the sunny-shady slopes effect of three cooling embankments along an expressway in warm permafrost region, China. Engineering Geology, 2020, 269, 105545.	6.3	21
22	Performance of silty sand reinforced with aqueous solution of polyvinyl alcohol subjected to freeze-thaw cycles. Cold Regions Science and Technology, 2020, 174, 103054.	3.5	9
23	Ground temperature and deformation analysis for an expressway embankment in warm permafrost regions of the Tibet plateau. Permafrost and Periglacial Processes, 2019, 30, 208-221.	3.4	27
24	Dynamic behavior of clay modified with polypropylene fiber under freeze-thaw cycles. Transportation Geotechnics, 2019, 21, 100282.	4.5	30
25	TWO-DIMENSIONAL FRACTAL MODEL FOR ULTIMATE CRUSHING STATE OF COARSE AGGREGATES. Fractals, 2019, 27, 1950109.	3.7	2
26	Applicability evaluation of cast-in-place bored pile in permafrost regions based on a temperature-tracking concrete hydration model. Applied Thermal Engineering, 2019, 149, 484-491.	6.0	16
27	Freeze-Thaw Cycle Impact on Volumetric and Low-Temperature Shear Behavior of High-Salinity Soils. Journal of Cold Regions Engineering - ASCE, 2019, 33, .	1.1	20
28	Experimental study on the volume and strength change of an unsaturated silty clay upon freezing. Cold Regions Science and Technology, 2019, 157, 1-12.	3.5	47
29	Characterization and evaluation of permafrost thawing using GPR attributes in the Qinghai-Tibet Plateau. Cold Regions Science and Technology, 2018, 151, 302-313.	3.5	11
30	Effect of sunny-shady slopes and strike on thermal regime of subgrade along a high-speed railway in cold regions, China. Engineering Geology, 2018, 232, 182-191.	6.3	44
31	Performance of clay soil reinforced with fibers subjected to freeze-thaw cycles. Cold Regions Science and Technology, 2018, 153, 18-24.	3.5	67
32	Evaluation and Analysis of Dam Operating Status Using One Clock-Synchronized Dual-Antenna Receiver. Journal of Sensors, 2018, 2018, 1-12.	1.1	3
33	The crystallization and salt expansion characteristics of a silty clay. Cold Regions Science and Technology, 2018, 154, 63-73.	3.5	30
34	New Approach for Predicting Particle Breakage of Granular Material Using the Grey System Theory. Journal of Materials in Civil Engineering, 2018, 30, .	2.9	12
35	Impact of cooling on shear strength of high salinity soils. Cold Regions Science and Technology, 2017, 141, 122-130.	3.5	28
36	Thermal characteristics and declining permafrost table beneath three cooling embankments in warm permafrost regions. Applied Thermal Engineering, 2017, 123, 435-447.	6.0	49

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37	Numerical modelling of anti-frost heave measures of high-speed railway subgrade in cold regions. Cold Regions Science and Technology, 2017, 141, 28-35.	3.5	56
38	Effect of freeze-thaw cycles on triaxial strength properties of fiber-reinforced clayey soil. KSCE Journal of Civil Engineering, 2017, 21, 2128-2140.	1.9	60
39	Frost jacking characteristics of screw piles by model testing. Cold Regions Science and Technology, 2017, 138, 98-107.	3.5	16
40	Performance of Clay Soil Reinforced with Fly Ash and Lignin Fiber Subjected to Freeze-Thaw Cycles. Journal of Cold Regions Engineering - ASCE, 2017, 31, .	1.1	19
41	Analysis of Slope Stability and Software Development Based on Single-Grid and Two-Grid Finite Element Methods. Geotechnical and Geological Engineering, 2017, 35, 1369-1382.	1.7	5
42	Frost jacking characteristics of screw piles in seasonally frozen regions based on thermo-mechanical simulations. Computers and Geotechnics, 2017, 91, 27-38.	4.7	18
43	Dynamic behavior of fiber-reinforced soil under freeze-thaw cycles. Soil Dynamics and Earthquake Engineering, 2017, 101, 269-284.	3.8	51
44	An experimental study on the effects of freezeâ€“thaw cycles on phosphorus adsorptionâ€“desorption processes in brown soil. RSC Advances, 2017, 7, 37441-37446.	3.6	17
45	Bagged Reinforced Concrete Shaft in Saline Soils in Cold Regions. , 2017, , .		0
46	The experiment study of frost heave characteristics and gray correlation analysis of graded crushed rock. Cold Regions Science and Technology, 2016, 126, 44-50.	3.5	51
47	Experimental Study on the Shear Strength of Fine Sand Reinforced by Grouting and Freezing. Transportation Infrastructure Geotechnology, 2016, 3, 21-35.	3.1	1
48	Frost depth prediction for seasonal freezing area in Eastern Turkey. Cold Regions Science and Technology, 2016, 124, 118-126.	3.5	22
49	Numerical Simulation of Coupled Water and Salt Transfer in Soil and a Case Study of the Expansion of Subgrade composed by Saline Soil. Procedia Engineering, 2016, 143, 315-322.	1.2	16
50	Influence of freeze-thaw cycles on mechanical properties of a silty sand. Engineering Geology, 2016, 210, 23-32.	6.3	179
51	Experimental and modeling investigation of the thermal conductivity of fiber-reinforced soil subjected to freeze-thaw cycles. Applied Thermal Engineering, 2016, 108, 824-832.	6.0	33
52	Macro- and micro-mechanical characteristics of crushed rock aggregate subjected to direct shearing. Transportation Geotechnics, 2015, 2, 10-19.	4.5	19
53	A New Approach to Improve Soft Ground in a Railway Station Applying Air-Boosted Vacuum Preloading. Geotechnical Testing Journal, 2015, 38, 373-386.	1.0	23
54	Robust partitioned block preconditioners for largeâ€scale geotechnical applications with soilâ€“structure interactions. International Journal for Numerical and Analytical Methods in Geomechanics, 2014, 38, 72-91.	3.3	3

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55	Design and validation of a new dynamic direct shear apparatus for frozen soil. Cold Regions Science and Technology, 2014, 106-107, 207-215.	3.5	14
56	A two-grid search scheme for large-scale 3-D finite element analyses of slope stability. Computers and Geotechnics, 2014, 62, 203-215.	4.7	27
57	Experimental study on direct shear behavior of frozen soilâ€“concrete interface. Cold Regions Science and Technology, 2014, 104-105, 1-6.	3.5	33
58	Nonlinear Analysis for the Cooling Effect of Road Subgrade with Varying Spacings of Thermosyphons in Cold Region. , 2013, , .		2
59	Experimental Study on Dynamic Properties of Clay Modified by Aught-Set Solidifying Agent Subjected to Freeze-Thaw Cycles. , 2013, , 86-94.		0
60	Experimental Study on the Stability of Railroad Silt Subgrade with Increasing Train Speed. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 833-841.	3.0	119
61	Experimental study of the dynamic properties of cement- and lime-modified clay soils subjected to freezeâ€“thaw cycles. Cold Regions Science and Technology, 2010, 61, 29-33.	3.5	109
62	Numeric simulation of permafrost degradation in the eastern Tibetan Plateau. Permafrost and Periglacial Processes, 2008, 19, 93-99.	3.4	8
63	Numerical studies for the thermal regime of a roadbed with insulation on permafrost. Cold Regions Science and Technology, 2002, 35, 1-13.	3.5	45
64	Modeling the Cutting and Filling Process of Roadbed Construction on Permafrost. , 2002, , 460.		0