

Hanlong Liu

List of Publications by Year in descending order

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93
papers

2,977
citations

172457

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182427

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docs citations

93
times ranked

1309
citing authors

#	ARTICLE	IF	CITATIONS
1	Improvement of uniformity of biocemented sand column using CH ₃ COOH-buffered one-phase-low-pH injection method. <i>Acta Geotechnica</i> , 2023, 18, 413-428.	5.7	7
2	Non-coaxiality of soft clay generated by principal stress rotation under high-speed train loading. <i>Acta Geotechnica</i> , 2022, 17, 411-426.	5.7	6
3	A Complex Variable Solution for Shallow Rectangular Tunnel in Semi-Infinite Plane. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	2.9	5
4	Ultimate Lateral Pressure of Circular Pile in Undrained Clay Considering the Strength Reduction Induced by Pile Installation. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	1
5	Kaolin-nucleation-based biotreated calcareous sand through unsaturated percolation method. <i>Acta Geotechnica</i> , 2022, 17, 3181-3193.	5.7	20
6	A simple estimation model for basal heave stability of braced excavations in anisotropic clay. <i>Acta Geotechnica</i> , 2022, 17, 5789-5800.	5.7	8
7	A simplified analysis approach for the effect of the installation of adjacent XCC pile on the existing single XCC pile in undrained clay. <i>Acta Geotechnica</i> , 2022, 17, 5499-5519.	5.7	4
8	Enhancing splitting tensile strength of biocarbonated reactive magnesia-based sand using polypropylene fiber reinforcement. <i>Acta Geotechnica</i> , 2022, 17, 4761-4768.	5.7	1
9	Fracturing and Ultimate State of Binary Carbonate Sands. <i>International Journal of Geomechanics</i> , 2022, 22, .	2.7	7
10	Noncircular Cavity Expansion in Undrained Soil: Semi-Analytical Solution. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	2.9	9
11	Finite element modelling of helical pile installation and its influence on uplift capacity in strain softening clay. <i>Canadian Geotechnical Journal</i> , 2022, 59, 2050-2066.	2.8	5
12	Mechanical properties of biocement formed by microbially induced carbonate precipitation. <i>Acta Geotechnica</i> , 2022, 17, 4905-4919.	5.7	12
13	Blast Liquefaction Test of Saturated Sand Foundations Disposed by a Drainage Rigid Pile. <i>Shock and Vibration</i> , 2022, 2022, 1-18.	0.6	2
14	Dynamic properties of polyurethane foam adhesive-reinforced gravels. <i>Science China Technological Sciences</i> , 2021, 64, 535-547.	4.0	20
15	Geotechnical properties of 3D-printed transparent granular soil. <i>Acta Geotechnica</i> , 2021, 16, 1789-1800.	5.7	9
16	Biocarbonation of reactive magnesia for soil improvement. <i>Acta Geotechnica</i> , 2021, 16, 1113-1125.	5.7	27
17	Analytical Solution for Cavity Expansion in Rate-Dependent and Strain-Softening Clay and Its Application for CPT Tests. <i>Journal of Engineering Mechanics - ASCE</i> , 2021, 147, .	2.9	5
18	Study on horizontal bearing characteristics of pile foundations in coral sand. <i>Canadian Geotechnical Journal</i> , 2021, 58, 1928-1942.	2.8	16

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19	Constitutive Modeling for Two Sands under High Pressure. International Journal of Geomechanics, 2021, 21, .	2.7	27
20	Theoretical Solution for Cavity Expansion in Crushable Soil. International Journal of Geomechanics, 2021, 21, .	2.7	6
21	Undrained cylindrical and spherical cavity expansion in elastic-viscoplastic soils. Canadian Geotechnical Journal, 2021, 58, 1543-1557.	2.8	6
22	Testing and Modeling on Particle Breakage for Granular Soils. International Journal of Geomechanics, 2021, 21, .	2.7	2
23	In situ desaturation tests by electrolysis for liquefaction mitigation. Canadian Geotechnical Journal, 2021, 58, 1744-1756.	2.8	4
24	Three-dimensional analytical continuum model for axially loaded noncircular piles in multilayered elastic soil. International Journal for Numerical and Analytical Methods in Geomechanics, 2021, 45, 2654-2681.	3.3	4
25	Dynamic Response of Ballastless Track XCC Pile-Raft Foundation under Train Axle Loads. Journal of Testing and Evaluation, 2021, 49, 20180032.	0.7	1
26	Limit lateral resistance of XCC pile group in undrained soil. Acta Geotechnica, 2020, 15, 1673-1683.	5.7	15
27	Gradation affects basic mechanical characteristics of Chinese calcareous sand as airport subgrade of reefs. Marine Georesources and Geotechnology, 2020, 38, 706-715.	2.1	20
28	Toe-Bearing Capacity of Precast Concrete Piles through Biogrouting Improvement. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	47
29	Model Test Study on Oil Leakage and Underground Pipelines Using Ground Penetrating Radar. Russian Journal of Nondestructive Testing, 2020, 56, 435-444.	0.9	5
30	Closure to "Unconfined Compressive and Splitting Tensile Strength of Basalt Fiber-Reinforced Biocemented Sand" by Yang Xiao, Xiang He, T. Matthew Evans, Armin W. Stuedlein, and Hanlong Liu. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, 07020017.	3.0	0
31	Large Deformation Numerical Analysis of Displacement-Controlled Cylindrical Cavity Expansion under Anisotropic Initial Stress. International Journal of Geomechanics, 2020, 20, 04020163.	2.7	2
32	Restraint of Particle Breakage by Biotreatment Method. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	3.0	109
33	Strength-increase mechanism and microstructural characteristics of a biotreated geomaterial. Frontiers of Structural and Civil Engineering, 2020, 14, 599-608.	2.9	7
34	Exact Solutions for Nonlocal Steady Fully Developed Debris Flows Down Inclines. Journal of Engineering Mechanics - ASCE, 2020, 146, 04020021.	2.9	0
35	Influence of Fiber Content and Length on Engineering Properties of MICP-Treated Coral Sand. Geomicrobiology Journal, 2020, 37, 582-594.	2.0	68
36	A "y curve model for laterally loaded XCC pile in soft clay. Acta Geotechnica, 2020, 15, 3229-3242.	5.7	14

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37	Efficient reliability analysis of earth dam slope stability using extreme gradient boosting method. <i>Acta Geotechnica</i> , 2020, 15, 3135-3150.	5.7	177
38	Probabilistic stability analysis of earth dam slope under transient seepage using multivariate adaptive regression splines. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 2763-2775.	3.5	143
39	Two-Dimensional Electroosmotic Consolidation Theory of Nonlinear Soil Voltage Distribution Characteristics. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-10.	0.7	5
40	Probabilistic Risk Assessment of unsaturated Slope Failure Considering Spatial Variability of Hydraulic Parameters. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 5032-5040.	1.9	27
41	Effect of particle shape of glass beads on the strength and deformation of cemented sands. <i>Acta Geotechnica</i> , 2019, 14, 2123-2131.	5.7	27
42	Analysis of dynamic spherical cavity expansion in undrained modified Cam Clay soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1686-1703.	3.3	6
43	Particle breakage and energy dissipation of carbonate sands under quasi-static and dynamic compression. <i>Acta Geotechnica</i> , 2019, 14, 1741-1755.	5.7	84
44	Avalanche mixing and the simultaneous collapse of two media under uniaxial stress. <i>Physical Review E</i> , 2019, 99, 023002.	2.1	10
45	Avalanches in Compressed Sandstone: Crackling Noise under Confinement. <i>Crystals</i> , 2019, 9, 582.	2.2	10
46	Influences of reservoir water level drawdown on slope stability and reliability analysis. <i>Georisk</i> , 2019, 13, 145-153.	3.5	24
47	Research advances and challenges in biogeotechnologies. <i>Geotechnical Research</i> , 2019, 6, 144-155.	1.4	25
48	Strength, stiffness, and microstructure characteristics of biocemented calcareous sand. <i>Canadian Geotechnical Journal</i> , 2019, 56, 1502-1513.	2.8	148
49	Performance of a geothermal energy deicing system for bridge deck using a pile heat exchanger. <i>International Journal of Energy Research</i> , 2019, 43, 596-603.	4.5	61
50	Thermo-mechanical behavior of energy pile under different climatic conditions. <i>Acta Geotechnica</i> , 2019, 14, 1495-1508.	5.7	34
51	Effect of temperature on behaviour of red clay-structure interface. <i>Canadian Geotechnical Journal</i> , 2019, 56, 126-134.	2.8	33
52	A novel analytical approach for predicting the noncylindrical pile penetration-induced soil displacement in undrained soil by combining use of cavity expansion and strain path methods. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 1270-1305.	3.3	11
53	Non-linear elastic model incorporating temperature effects. <i>Geotechnical Research</i> , 2018, 5, 22-30.	1.4	6
54	Influence of stress anisotropy on the cylindrical cavity expansion in undrained elastic-perfectly plastic soil. <i>Science China Technological Sciences</i> , 2018, 61, 370-380.	4.0	1

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55	Macro-meso effects of gradation and particle morphology on the compressibility characteristics of calcareous sand. <i>Bulletin of Engineering Geology and the Environment</i> , 2018, 77, 1047-1055.	3.5	44
56	Similarity solution for cavity expansion in thermoplastic soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2018, 42, 274-294.	3.3	74
57	Stress-Strain-Strength Response and Ductility of Gravels Improved by Polyurethane Foam Adhesive. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	75
58	Experimental and Numerical Analysis of XCC Pile-Geogrid Foundation for Existing Expressway Under Traffic Load. <i>International Journal of Civil Engineering</i> , 2018, 16, 1371-1388.	2.0	6
59	Intermittent flow under constant forcing: Acoustic emission from creep avalanches. <i>Applied Physics Letters</i> , 2018, 112, .	3.3	25
60	Effects of asphalt overlay on XCC pile-supported embankment vibration from a moving vehicle. <i>Soil Dynamics and Earthquake Engineering</i> , 2018, 112, 18-23.	3.8	0
61	Gradation-Dependent Thermal Conductivity of Sands. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018, 144, .	3.0	47
62	Influence of Temperature on the Volume Change Behavior of Saturated Sand. <i>Geotechnical Testing Journal</i> , 2018, 41, 20160308.	1.0	26
63	Elastoplastic Constitutive Model for Rockfill Materials Considering Particle Breakage. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	193
64	Performance of a Prestressed Concrete Pipe Energy Pile during Heating and Cooling. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	2.0	16
65	Constitutive Modeling for Transparent Granular Soils. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	53
66	Vibration velocity of X-section cast-in-place concrete (XCC) pile-raft foundation model for a ballastless track. <i>Canadian Geotechnical Journal</i> , 2017, 54, 1340-1345.	2.8	17
67	Closure to "Transitional Behaviors in Well-Graded Coarse Granular Soils" by Yang Xiao, M. R. Coop, Hong Liu, Hanlong Liu, and Jingshan Jiang. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2017, 143, 07017033.	3.0	0
68	Experimental Investigation on the Movement of Soil and Piles in Transparent Granular Soils. <i>Geotechnical and Geological Engineering</i> , 2017, 36, 783.	1.7	4
69	Predicting mining collapse: Superjerks and the appearance of record-breaking events in coal as collapse precursors. <i>Physical Review E</i> , 2017, 96, 023004.	2.1	38
70	Particle breakage and deformation of carbonate sands with wide range of densities during compression loading process. <i>Acta Geotechnica</i> , 2017, 12, 1177-1184.	5.7	129
71	Evolution of particle breakage and volumetric deformation of binary granular soils under impact load. <i>Granular Matter</i> , 2017, 19, 1.	2.2	67
72	Model Tests on Soil Movement during the Installation of Piles in Transparent Granular Soil. <i>International Journal of Geomechanics</i> , 2017, 17, .	2.7	30

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73	Experimental Study on the Behavior of X-Section Pile Subjected to Cyclic Axial Load in Sand. Shock and Vibration, 2017, 2017, 1-9.	0.6	4
74	Effect of Intermediate Principal-Stress Ratio on Particle Breakage of Rockfill Material. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	111
75	Guest Editorial "Advances in Reliability, Resiliency and Sustainability of Engineering Structures in Mountainous Cities. International Journal of Structural Stability and Dynamics, 2016, 16, 1602001.	2.4	0
76	Transitional Behaviors in Well-Graded Coarse Granular Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	3.0	26
77	Pressure-controlled elliptical cavity expansion under anisotropic initial stress: Elastic solution and its application. Science China Technological Sciences, 2016, 59, 1100-1119.	4.0	7
78	Comparative study of Y-shaped and circular floating piles in consolidating clay. Canadian Geotechnical Journal, 2016, 53, 1483-1494.	2.8	18
79	Lateral dynamic response of a pipe pile in saturated soil layer. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 159-184.	3.3	41
80	Strength and Dilatancy Behaviors of Dense Modeled Rockfill Material in General Stress Space. International Journal of Geomechanics, 2016, 16, 04016015.	2.7	20
81	Flat Cavity Expansion: Theoretical Model and Application to the Interpretation of the Flat Dilatometer Test. Journal of Engineering Mechanics - ASCE, 2016, 142, .	2.9	32
82	Three-dimensional effects in low-strain integrity testing of piles: analytical solution. Canadian Geotechnical Journal, 2016, 53, 225-235.	2.8	56
83	Influence of Particle Breakage on Critical State Line of Rockfill Material. International Journal of Geomechanics, 2016, 16, .	2.7	177
84	Physical modeling of lateral spreading induced by inclined sandy foundation in the state of zero effective stress. Soil Dynamics and Earthquake Engineering, 2015, 76, 80-85.	3.8	14
85	New Method for Improvement of Rockfill Material with Polyurethane Foam Adhesive. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	3.0	19
86	Grouted gravel column-supported highway embankment over soft clay: case study. Canadian Geotechnical Journal, 2015, 52, 1725-1733.	2.8	39
87	Influence of Intermediate Principal Stress on the Strength and Dilatancy Behavior of Rockfill Material. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	43
88	Strength and Deformation of Rockfill Material Based on Large-Scale Triaxial Compression Tests. I: Influences of Density and Pressure. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	77
89	A constitutive model for the state-dependent behaviors of rockfill material considering particle breakage. Science China Technological Sciences, 2014, 57, 1636-1646.	4.0	27
90	Strength and Deformation of Rockfill Material Based on Large-Scale Triaxial Compression Tests. II: Influence of Particle Breakage. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2014, 140, .	3.0	82

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91	A semi-analytical solution for displacement-controlled elliptical cavity expansion in undrained MCC soil. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 0, , .	3.3	4
92	A lateral soil resistance model for XCC pile in soft clay considering the effect of the geometry of cross section. <i>Acta Geotechnica</i> , 0, , 1.	5.7	3
93	Microscopic Mechanism Analysis of Calcareous Sand in Electrolysis Desaturation Using ¹ H L-F NMR. <i>Canadian Geotechnical Journal</i> , 0, , .	2.8	0