

Yong Liu

List of Publications by Year in Descending Order

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Version: 2024-04-23

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

107
papers

1,397
citations

21
h-index

31
g-index

119
ext. papers

1,877
ext. citations

3.5
avg, IF

5.62
L-index

#	Paper	IF	Citations
107	Model updating for slope stability assessment in spatially varying soil parameters using multi-type observations. <i>Mechanical Systems and Signal Processing</i> , 2022 , 171, 108906	7.8	0
106	A large deformation finite element analysis of uplift behaviour for helical anchor in spatially variable clay. <i>Computers and Geotechnics</i> , 2022 , 141, 104542	4.4	1
105	Laboratory Investigations on Geotechnical Characteristics of Albumen Treated Loess Soil. <i>KSCE Journal of Civil Engineering</i> , 2022 , 26, 539	1.9	1
104	Optimal water-cement ratio of cement-stabilized soil. <i>Construction and Building Materials</i> , 2022 , 320, 126211	6.7	5
103	Experimental Investigations on the Spillway Section Shape of the Breaching Process of Landslide Dams. <i>International Journal of Geomechanics</i> , 2022 , 22,	3.1	1
102	Experimental Investigations on the Mechanical and Microscopic Behavior of Cement-Treated Clay Modified by Nano-MgO and Fibers. <i>International Journal of Geomechanics</i> , 2022 , 22,	3.1	2
101	Random finite element analysis on uplift bearing capacity and failure mechanisms of square plate anchors in spatially variable clay. <i>Engineering Geology</i> , 2022 , 304, 106677	6	2
100	Modeling response spectrum compatible pulse-like ground motion. <i>Mechanical Systems and Signal Processing</i> , 2022 , 177, 109177	7.8	3
99	A novel method for modelling the existence of fault fracture zones within 3D weathered rock slopes. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021 , 861, 032036	0.3	0
98	A patching algorithm for conditional random fields in modeling material properties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 377, 113719	5.7	2
97	Seismic performance of earth dams founded on liquefiable soil layer subjected to near-fault pulse-like ground motions. <i>Soil Dynamics and Earthquake Engineering</i> , 2021 , 143, 106623	3.5	3
96	Influence of ground motion duration on the seismic performance of earth slopes based on numerical analysis. <i>Soil Dynamics and Earthquake Engineering</i> , 2021 , 143, 106595	3.5	15
95	Effect of uncertain hydrothermal properties and freezing temperature on the thermal process of frozen soil around a single freezing pipe. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 124, 105267	5.8	1
94	Bender Element Measurement for Small-Strain Shear Modulus of Compacted Loess. <i>International Journal of Geomechanics</i> , 2021 , 21, 04021063	3.1	2
93	A three-dimensional large-deformation random finite-element study of landslide runout considering spatially varying soil. <i>Landslides</i> , 2021 , 18, 3149-3162	6.6	13
92	Deterministic and Probabilistic Investigations of Piping Occurrence during Tunneling through Spatially Variable Soils. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021 , 7, 04021009	1.7	7
91	Probabilistically quantifying the effect of geotechnical anisotropy on landslide susceptibility. <i>Bulletin of Engineering Geology and the Environment</i> , 2021 , 80, 6615-6627	4	1

90	Model-independent strength-reduction factor for effect of spatial variability on tunnel with improved soil surrounds. <i>Geotechnique</i> , 2021 , 71, 406-422	3.4	20
89	Probabilistic risk assessment of landslide-induced surges considering the spatial variability of soils. <i>Engineering Geology</i> , 2021 , 283, 105976	6	8
88	Preliminary Investigation on Overall Permeability of Granular Mixed Materials. <i>Sustainable Civil Infrastructures</i> , 2021 , 97-109	0.2	
87	Geotechnical stability analysis considering strain softening using micro-polar continuum finite element method. <i>Journal of Central South University</i> , 2021 , 28, 297-310	2.1	28
86	Experimental Investigation on Mechanical Properties of Cemented Expansive Soil. <i>Sustainable Civil Infrastructures</i> , 2021 , 63-73	0.2	0
85	Modeling Seepage Flow and Spatial Variability of Soil Thermal Conductivity during Artificial Ground Freezing for Tunnel Excavation. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 6275	2.6	3
84	Model Updating of Slope Stability Analysis Using 3D Conditional Random Fields. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021 , 7, 04021034	1.7	
83	Applicability of Continuous, Stationary, and Discrete Wavelet Transforms in Engineering Signal Processing. <i>Journal of Performance of Constructed Facilities</i> , 2021 , 35, 04021060	2	2
82	Experimental and theoretical investigations on fin configuration effects of dynamically installed anchors in clay. <i>Canadian Geotechnical Journal</i> , 2021 , 58, 1527-1542	3.2	0
81	Dynamic prediction of mechanized shield tunneling performance. <i>Automation in Construction</i> , 2021 , 132, 103958	9.6	8
80	Three-Dimensional Seepage Investigation of Riverside Tunnel Construction Considering Heterogeneous Permeability. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021 , 7, 04021041	1.7	0
79	Large-Scale 3D Random Finite Element Analysis of Embankment Seepage Stability. <i>Sustainable Civil Infrastructures</i> , 2021 , 1-13	0.2	
78	A novel random discrete element analysis of rock fragmentation. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2020 , 44, 1386-1395	4	13
77	Small-Strain Shear Modulus of Cement-Treated Marine Clay. <i>Journal of Materials in Civil Engineering</i> , 2020 , 32, 04020114	3	21
76	Probabilistic stability analyses of multi-stage soil slopes by bivariate random fields and finite element methods. <i>Computers and Geotechnics</i> , 2020 , 122, 103529	4.4	25
75	Dyadic wavelet analysis of bender element signals in determining shear wave velocity. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 2027-2030	3.2	4
74	An experimental study of a novel liquid carbon dioxide rock-breaking technology. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020 , 128, 104244	6	22
73	Determination of limiting cavity depths for offshore spudcan foundations in a spatially varying seabed. <i>Marine Structures</i> , 2020 , 71, 102723	3.8	5

72	Meso-scale investigations on the effective thermal conductivity of multi-phase materials using the finite element method. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 151, 119383	4.9	46
71	Insight into centrifuge modelling errors in predicting embedment depths of dynamically installed anchors. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 1796-1804	3.2	0
70	A Wavelet-Based Fiber Optic Sensors Data Processing Method and Its Application on Embankment Sliding Surface Detection. <i>Springer Series in Geomechanics and Geoengineering</i> , 2020 , 333-339	0.1	
69	Experimental investigations on the mechanical behavior of iron tailings powder with compound admixture of cement and nano-clay. <i>Construction and Building Materials</i> , 2020 , 254, 119259	6.7	19
68	Equivalent Strength for Tunnels in Cement-Admixed Soil Columns with Spatial Variability and Positioning Error. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2020 , 146, 04020103-4	3.4	3
67	Numerical investigations on the seismic response of a subway tunnel embedded in spatially random clays. <i>Underground Space (China)</i> , 2020 , 5, 43-52	3.7	9
66	Characteristic strength of soils underlying foundations considering effect of spatial variability. <i>Canadian Geotechnical Journal</i> , 2020 , 57, 518-536	3.2	3
65	A large-deformation random finite-element study: failure mechanism and bearing capacity of spudcan in a spatially varying clayey seabed. <i>Geotechnique</i> , 2020 , 70, 392-405	3.4	20
64	Estimation of failure probability in braced excavation using Bayesian networks with integrated model updating. <i>Underground Space (China)</i> , 2020 , 5, 315-323	3.7	11
63	Experimental Investigations on Effect of Geocell, Waste Tire Chips, and Geocell/Tire Chips on Foundation Reinforcement. <i>Journal of Performance of Constructed Facilities</i> , 2019 , 33, 04019074	2	1
62	Meso-mechanical investigations on the overall elastic properties of multi-phase construction materials using finite element method. <i>Construction and Building Materials</i> , 2019 , 228, 116727	6.7	13
61	Enhanced Singular Value Truncation Method for Non-Destructive Evaluation of Structural Damage Using Natural Frequencies. <i>Materials</i> , 2019 , 12,	3.5	4
60	Main frequency band of blast vibration signal based on wavelet packet transform. <i>Applied Mathematical Modelling</i> , 2019 , 74, 569-585	4.5	37
59	Effects of reconsolidation time on holding capacity of deepwater dynamically installed anchors. <i>Canadian Geotechnical Journal</i> , 2019 , 56, 1876-1888	3.2	2
58	Seismic response of pile/raft system embedded in spatially random clay. <i>Geotechnique</i> , 2019 , 69, 638-645	3.4	12
57	Effect of in situ water content variation on the spatial variation of strength of deep cement-mixed clay. <i>Geotechnique</i> , 2019 , 69, 391-405	3.4	64
56	A direct assessment for the stiffness development of artificially cemented clay. <i>Geotechnique</i> , 2019 , 69, 741-747	3.4	21
55	Effect of sleeves and skirts on mitigating spudcan punch-through in sand overlying normally consolidated clay. <i>Geotechnique</i> , 2019 , 69, 283-296	3.4	7

54	A three-dimensional algorithm for estimating water-tightness of cement-treated ground with geometric imperfections. <i>Computers and Geotechnics</i> , 2019 , 115, 103176	4.4	9
53	Measure for Reducing the Tensile Stress in Cement-Treated Soil Layer in Deep Excavation in Soft Clay. <i>KSCE Journal of Civil Engineering</i> , 2019 , 23, 3924-3934	1.9	3
52	Probabilistic investigation on defective jet-grouted cut-off wall with random geometric imperfections. <i>Geotechnique</i> , 2019 , 69, 420-433	3.4	29
51	A Design Framework for Spatial Variability in Cement-Treated Soft Clay in Deep Excavations and Underground Constructions. <i>Developments in Geotechnical Engineering</i> , 2019 , 59-69	0.4	
50	Investigation on the Triaxial Mechanical Characteristics of Cement-Treated Subgrade Soil Admixed with Polypropylene Fiber. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 4557	2.6	10
49	An effective stress theoretical model for shear resistance and adhesion factor of dynamically installed anchors. <i>Geotechnique</i> , 2019 , 69, 1004-1018	3.4	1
48	Analysis of cement-treated soil slab for deep excavation support a rational approach. <i>Geotechnique</i> , 2019 , 69, 888-905	3.4	14
47	Primary yielding locus of cement-stabilized marine clay and its applications. <i>Marine Georesources and Geotechnology</i> , 2019 , 37, 488-505	2.2	13
46	Miniature LVDT setup for local strain measurement on cement-treated clay specimens. <i>Marine Georesources and Geotechnology</i> , 2019 , 37, 568-577	2.2	3
45	Artificial Ground Freezing In Tunnelling Through Aquifer Soil Layers: a Case Study in Nanjing Metro Line 2. <i>KSCE Journal of Civil Engineering</i> , 2018 , 22, 4136-4142	1.9	19
44	Bender element measurement of small strain shear modulus of cement-treated marine clay □ Effect of test setup and methodology. <i>Construction and Building Materials</i> , 2018 , 172, 433-447	6.7	23
43	Stress-dependent behavior of marine clay admixed with fly-ash-blended cement. <i>International Journal of Pavement Research and Technology</i> , 2018 , 11, 611-616	2	14
42	Statistical Evaluation of the Load-Settlement Response of a Multicolumn Composite Foundation. <i>International Journal of Geomechanics</i> , 2018 , 18, 04018015	3.1	13
41	Experimental and Numerical Studies of the Excess Pore Pressure Field Surrounding an Advancing Spudcan Footing. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2018 , 140,	1.5	4
40	Lateral compression response of overlapping jet-grout columns with geometric imperfections in radius and position. <i>Canadian Geotechnical Journal</i> , 2018 , 55, 1282-1294	3.2	14
39	On spectral representation method and Karhunen-Loève expansion in modelling construction material properties. <i>Archives of Civil and Mechanical Engineering</i> , 2018 , 18, 768-783	3.4	10
38	A prediction model for the tensile strength of cement-admixed clay with randomly orientated fibres. <i>European Journal of Environmental and Civil Engineering</i> , 2018 , 22, 1131-1145	1.5	11
37	Probabilistic stability analyses of undrained slopes by 3D random fields and finite element methods. <i>Geoscience Frontiers</i> , 2018 , 9, 1657-1664	6	55

36	Effect of spatial variability on short- and long-term behaviour of axially-loaded cement-admixed marine clay column. <i>Computers and Geotechnics</i> , 2018 , 94, 150-168	4.4	41
35	Rock-soil slope stability analysis by two-phase random media and finite elements. <i>Geoscience Frontiers</i> , 2018 , 9, 1649-1655	6	24
34	Stability of Tunnels in Cement-Admixed Soft Soils with Spatial Variability. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2018 , 144, 06018012	3.4	10
33	Seismic responses of rectangular subway tunnels in a clayey ground. <i>PLoS ONE</i> , 2018 , 13, e0204672	3.7	5
32	Effect of spatial variability on performance of cement-treated soil slab during deep excavation. <i>Construction and Building Materials</i> , 2018 , 188, 505-519	6.7	19
31	Bounding Surface Cam-Clay Model with Cohesion for Cement-Admixed Clay. <i>International Journal of Geomechanics</i> , 2017 , 17, 04016026	3.1	33
30	A direct simulation method and lower-bound estimation for a class of gamma random fields with applications in modelling material properties. <i>Probabilistic Engineering Mechanics</i> , 2017 , 47, 16-25	2.6	13
29	Statistical Analysis of Earthquake-Induced Bending Moment in Fixed-Head Piles Embedded in Soft Clay. <i>Journal of Engineering Mechanics - ASCE</i> , 2017 , 143, 04017059	2.4	5
28	Probabilistic investigations on the watertightness of jet-grouted ground considering geometric imperfections in diameter and position. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1447-1459	3.2	22
27	Effects of material and drilling uncertainties on artificial ground freezing of cement-admixed soils. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1659-1671	3.2	20
26	Propagation of corrosion and corrosion patterns of bars embedded in RC beams stored in chloride environment for various periods. <i>Construction and Building Materials</i> , 2017 , 145, 147-156	6.7	27
25	Holding capacity of dynamically installed anchors in normally consolidated clay under inclined loading. <i>Canadian Geotechnical Journal</i> , 2017 , 54, 1257-1271	3.2	12
24	Statistical evaluation of the overall strength of a soil-cement column under axial compression. <i>Construction and Building Materials</i> , 2017 , 132, 51-60	6.7	19
23	Experimental Investigations on the Pull-Out Behavior of Tire Strips Reinforced Sands. <i>Materials</i> , 2017 , 10,	3.5	16
22	Finite-Element Analysis of Heat Transfer of Horizontal Ground-Freezing Method in Shield-Driven Tunneling. <i>International Journal of Geomechanics</i> , 2017 , 17, 04017080	3.1	14
21	Determination of representative strength of deep cement-mixed clay from core strength data. <i>Geotechnique</i> , 2017 , 67, 350-364	3.4	69
20	Effects of the lattice leg on cavities and bearing capacity of deeply embedded spudcans in clay. <i>Geotechnique</i> , 2017 , 67, 1-17	3.4	49
19	A direct simulation algorithm for a class of beta random fields in modelling material properties. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2017 , 326, 642-655	5.7	19

18	Maximum Shear Modulus of Cement-Treated Singapore Marine Clay. <i>DEStech Transactions on Materials Science and Engineering</i> , 2017 ,		2
17	Some issues in core strength measurement in cement-soil treatment for deep excavation - Field data study. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 1563-1566	0.2	
16	A statistical model for the unconfined compressive strength of deep-mixed columns. <i>Geotechnique</i> , 2016 , 66, 351-365	3.4	26
15	Parallel finite element analysis of seismic soil structure interaction using a PC cluster. <i>Computers and Geotechnics</i> , 2016 , 80, 167-177	4.4	3
14	Translation random field with marginal beta distribution in modeling material properties. <i>Structural Safety</i> , 2016 , 61, 57-66	4.9	25
13	Effect of spatial variability on undrained triaxial test of cement-admixed soil. <i>Japanese Geotechnical Society Special Publication</i> , 2016 , 2, 2101-2106	0.2	2
12	Effect of spatial variation of strength and modulus on the lateral compression response of cement-admixed clay slab. <i>Geotechnique</i> , 2015 , 65, 851-865	3.4	62
11	Modified linear estimation method for generating multi-dimensional multi-variate Gaussian field in modelling material properties. <i>Probabilistic Engineering Mechanics</i> , 2014 , 38, 42-53	2.6	60
10	Model for large strain consolidation under constant rate of strain. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2013 , 37, 1574-1590	4	18
9	A modified method to calculate reliability index using maximum entropy principle. <i>Journal of Central South University</i> , 2013 , 20, 1058-1063	2.1	7
8	Notice of Retraction: PSO algorithm-based reliability analysis of bearing capacity of multi-pile composite foundation 2010 ,		1
7	Application of an immune algorithm to settlement prediction. <i>Journal of Zhejiang University: Science A</i> , 2009 , 10, 93-100	2.1	
6	Reliability-Based Design Applied to Multi-Column Composite Foundations 2009 ,		5
5	Statistical Evaluation for Strength of Pile by Deep Mixing Method 2008 , 195-200		8
4	Effect of mesoscale internal structure on effective thermal conductivity of anisotropic geomaterials. <i>Acta Geotechnica</i> ,1	4.9	2
3	Coupled thermalHydraulic modeling of artificial ground freezing with uncertainties in pipe inclination and thermal conductivity. <i>Acta Geotechnica</i> ,1	4.9	12
2	A generalized model for effective thermal conductivity of soils considering porosity and mineral composition. <i>Acta Geotechnica</i> ,1	4.9	5
1	Probabilistic decoupled approach to estimate seismic rotational displacements of flexible slopes considering depth-dependent soil variability. <i>Acta Geotechnica</i> ,1	4.9	0

