Yong Liu

List of Publications by Citations

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	Determination of representative strength of deep cement-mixed clay from core strength data. *Geotechnique*, **2017**, 67, 350-364	3.4	69
106	Effect of in situ water content variation on the spatial variation of strength of deep cement-mixed clay. *Geotechnique*, **2019**, 69, 391-405	3.4	64
105	Effect of spatial variation of strength and modulus on the lateral compression response of cement-admixed clay slab. *Geotechnique*, **2015**, 65, 851-865	3.4	62
104	Modified linear estimation method for generating multi-dimensional multi-variate Gaussian field in modelling material properties. *Probabilistic Engineering Mechanics*, **2014**, 38, 42-53	2.6	60
103	Probabilistic stability analyses of undrained slopes by 3D random fields and finite element methods. *Geoscience Frontiers*, **2018**, 9, 1657-1664	6	55
102	Effects of the lattice leg on cavities and bearing capacity of deeply embedded spudcans in clay. *Geotechnique*, **2017**, 67, 1-17	3.4	49
101	Meso-scale investigations on the effective thermal conductivity of multi-phase materials using the finite element method. *International Journal of Heat and Mass Transfer*, **2020**, 151, 119383	4.9	46
100	Effect of spatial variability on short- and long-term behaviour of axially-loaded cement-admixed marine clay column. *Computers and Geotechnics*, **2018**, 94, 150-168	4.4	41
99	Main frequency band of blast vibration signal based on wavelet packet transform. *Applied Mathematical Modelling*, **2019**, 74, 569-585	4.5	37
98	Bounding Surface Cam-Clay Model with Cohesion for Cement-Admixed Clay. *International Journal of Geomechanics*, **2017**, 17, 04016026	3.1	33
97	Probabilistic investigation on defective jet-grouted cut-off wall with random geometric imperfections. *Geotechnique*, **2019**, 69, 420-433	3.4	29
96	Geotechnical stability analysis considering strain softening using micro-polar continuum finite element method. *Journal of Central South University*, **2021**, 28, 297-310	2.1	28
95	Propagation of corrosion and corrosion patterns of bars embedded in RC beams stored in chloride environment for various periods. *Construction and Building Materials*, **2017**, 145, 147-156	6.7	27
94	A statistical model for the unconfined compressive strength of deep-mixed columns. *Geotechnique*, **2016**, 66, 351-365	3.4	26
93	Probabilistic stability analyses of multi-stage soil slopes by bivariate random fields and finite element methods. *Computers and Geotechnics*, **2020**, 122, 103529	4.4	25
92	Translation random field with marginal beta distribution in modeling material properties. *Structural Safety*, **2016**, 61, 57-66	4.9	25
91	Rock-soil slope stability analysis by two-phase random media and finite elements. *Geoscience Frontiers*, **2018**, 9, 1649-1655	6	24

90	Bender element measurement of small strain shear modulus of cement-treated marine clay □ Effect of test setup and methodology. *Construction and Building Materials*, **2018**, 172, 433-447	6.7	23
89	Probabilistic investigations on the watertightness of jet-grouted ground considering geometric imperfections in diameter and position. *Canadian Geotechnical Journal*, **2017**, 54, 1447-1459	3.2	22
88	An experimental study of a novel liquid carbon dioxide rock-breaking technology. *International Journal of Rock Mechanics and Minings Sciences*, **2020**, 128, 104244	6	22
87	Small-Strain Shear Modulus of Cement-Treated Marine Clay. *Journal of Materials in Civil Engineering*, **2020**, 32, 04020114	3	21
86	A direct assessment for the stiffness development of artificially cemented clay. *Geotechnique*, **2019** , 69, 741-747	3.4	21
85	Effects of material and drilling uncertainties on artificial ground freezing of cement-admixed soils. *Canadian Geotechnical Journal*, **2017**, 54, 1659-1671	3.2	20
84	A large-deformation random finite-element study: failure mechanism and bearing capacity of spudcan in a spatially varying clayey seabed. *Geotechnique*, **2020**, 70, 392-405	3.4	20
83	Model-independent strength-reduction factor for effect of spatial variability on tunnel with improved soil surrounds. *Geotechnique*, **2021**, 71, 406-422	3.4	20
82	Statistical evaluation of the overall strength of a soil-cement column under axial compression. *Construction and Building Materials*, **2017**, 132, 51-60	6.7	19
81	Experimental investigations on the mechanical behavior of iron tailings powder with compound admixture of cement and nano-clay. *Construction and Building Materials*, **2020**, 254, 119259	6.7	19
80	Artificial Ground Freezing In Tunnelling Through Aquifer Soil Layers: a Case Study in Nanjing Metro Line 2. *KSCE Journal of Civil Engineering*, **2018**, 22, 4136-4142	1.9	19
79	A direct simulation algorithm for a class of beta random fields in modelling material properties. *Computer Methods in Applied Mechanics and Engineering*, **2017**, 326, 642-655	5.7	19
78	Effect of spatial variability on performance of cement-treated soil slab during deep excavation. *Construction and Building Materials*, **2018**, 188, 505-519	6.7	19
77	Model for large strain consolidation under constant rate of strain. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2013**, 37, 1574-1590	4	18
76	Experimental Investigations on the Pull-Out Behavior of Tire Strips Reinforced Sands. *Materials*, **2017**, 10,	3.5	16
75	Influence of ground motion duration on the seismic performance of earth slopes based on numerical analysis. *Soil Dynamics and Earthquake Engineering*, **2021**, 143, 106595	3.5	15
74	Stress-dependent behavior of marine clay admixed with fly-ash-blended cement. *International Journal of Pavement Research and Technology*, **2018**, 11, 611-616	2	14
73	Lateral compression response of overlapping jet-grout columns with geometric imperfections in radius and position. *Canadian Geotechnical Journal*, **2018**, 55, 1282-1294	3.2	14

72	Finite-Element Analysis of Heat Transfer of Horizontal Ground-Freezing Method in Shield-Driven Tunneling. *International Journal of Geomechanics*, **2017**, 17, 04017080	3.1	14
71	Analysis of cement-treated soil slab for deep excavation support – a rational approach. *Geotechnique*, **2019**, 69, 888-905	3.4	14
70	A direct simulation method and lower-bound estimation for a class of gamma random fields with applications in modelling material properties. *Probabilistic Engineering Mechanics*, **2017**, 47, 16-25	2.6	13
69	Meso-mechanical investigations on the overall elastic properties of multi-phase construction materials using finite element method. *Construction and Building Materials*, **2019**, 228, 116727	6.7	13
68	A novel random discrete element analysis of rock fragmentation. *International Journal for Numerical and Analytical Methods in Geomechanics*, **2020**, 44, 1386-1395	4	13
67	Statistical Evaluation of the Load-Settlement Response of a Multicolumn Composite Foundation. *International Journal of Geomechanics*, **2018**, 18, 04018015	3.1	13
66	A three-dimensional large-deformation random finite-element study of landslide runout considering spatially varying soil. *Landslides*, **2021**, 18, 3149-3162	6.6	13
65	Primary yielding locus of cement-stabilized marine clay and its applications. *Marine Georesources and Geotechnology*, **2019**, 37, 488-505	2.2	13
64	Holding capacity of dynamically installed anchors in normally consolidated clay under inclined loading. *Canadian Geotechnical Journal*, **2017**, 54, 1257-1271	3.2	12
63	Seismic response of pile–raft system embedded in spatially random clay. *Geotechnique*, **2019**, 69, 638-645	3.4	12
62	Coupled thermal–hydraulic modeling of artificial ground freezing with uncertainties in pipe inclination and thermal conductivity. *Acta Geotechnica*,1	4.9	12
61	A prediction model for the tensile strength of cement-admixed clay with randomly orientated fibres. *European Journal of Environmental and Civil Engineering*, **2018**, 22, 1131-1145	1.5	11
60	Estimation of failure probability in braced excavation using Bayesian networks with integrated model updating. *Underground Space (China)*, **2020**, 5, 315-323	3.7	11
59	On spectral representation method and Karhunen–Loève expansion in modelling construction material properties. *Archives of Civil and Mechanical Engineering*, **2018**, 18, 768-783	3.4	10
58	Investigation on the Triaxial Mechanical Characteristics of Cement-Treated Subgrade Soil Admixed with Polypropylene Fiber. *Applied Sciences (Switzerland)*, **2019**, 9, 4557	2.6	10
57	Stability of Tunnels in Cement-Admixed Soft Soils with Spatial Variability. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2018**, 144, 06018012	3.4	10
56	A three-dimensional algorithm for estimating water-tightness of cement-treated ground with geometric imperfections. *Computers and Geotechnics*, **2019**, 115, 103176	4.4	9
55	Numerical investigations on the seismic response of a subway tunnel embedded in spatially random clays. *Underground Space (China)*, **2020**, 5, 43-52	3.7	9

54	Statistical Evaluation for Strength of Pile by Deep Mixing Method **2008**, 195-200		8
53	Probabilistic risk assessment of landslide-induced surges considering the spatial variability of soils. *Engineering Geology*, **2021**, 283, 105976	6	8
52	Dynamic prediction of mechanized shield tunneling performance. *Automation in Construction*, **2021**, 132, 103958	9.6	8
51	Effect of sleeves and skirts on mitigating spudcan punch-through in sand overlying normally consolidated clay. *Geotechnique*, **2019**, 69, 283-296	3.4	7
50	A modified method to calculate reliability index using maximum entropy principle. *Journal of Central South University*, **2013**, 20, 1058-1063	2.1	7
49	Deterministic and Probabilistic Investigations of Piping Occurrence during Tunneling through Spatially Variable Soils. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2021**, 7, 04021009	1.7	7
48	Statistical Analysis of Earthquake-Induced Bending Moment in Fixed-Head Piles Embedded in Soft Clay. *Journal of Engineering Mechanics - ASCE*, **2017**, 143, 04017059	2.4	5
47	Determination of limiting cavity depths for offshore spudcan foundations in a spatially varying seabed. *Marine Structures*, **2020**, 71, 102723	3.8	5
46	Reliability-Based Design Applied to Multi-Column Composite Foundations **2009**,		5
45	Optimal water-cement ratio of cement-stabilized soil. *Construction and Building Materials*, **2022**, 320, 126211	6.7	5
44	Seismic responses of rectangular subway tunnels in a clayey ground. *PLoS ONE*, **2018**, 13, e0204672	3.7	5
43	A generalized model for effective thermal conductivity of soils considering porosity and mineral composition. *Acta Geotechnica*,1	4.9	5
42	Enhanced Singular Value Truncation Method for Non-Destructive Evaluation of Structural Damage Using Natural Frequencies. *Materials*, **2019**, 12,	3.5	4
41	Dyadic wavelet analysis of bender element signals in determining shear wave velocity. *Canadian Geotechnical Journal*, **2020**, 57, 2027-2030	3.2	4
40	Experimental and Numerical Studies of the Excess Pore Pressure Field Surrounding an Advancing Spudcan Footing. *Journal of Offshore Mechanics and Arctic Engineering*, **2018**, 140,	1.5	4
39	Parallel finite element analysis of seismic soil structure interaction using a PC cluster. *Computers and Geotechnics*, **2016**, 80, 167-177	4.4	3
38	Measure for Reducing the Tensile Stress in Cement-Treated Soil Layer in Deep Excavation in Soft Clay. *KSCE Journal of Civil Engineering*, **2019**, 23, 3924-3934	1.9	3
37	Equivalent Strength for Tunnels in Cement-Admixed Soil Columns with Spatial Variability and Positioning Error. *Journal of Geotechnical and Geoenvironmental Engineering - ASCE*, **2020**, 146, 04020101	3.4	3

36	Seismic performance of earth dams founded on liquefiable soil layer subjected to near-fault pulse-like ground motions. *Soil Dynamics and Earthquake Engineering*, **2021**, 143, 106623	3.5	3
35	Miniature LVDT setup for local strain measurement on cement-treated clay specimens. *Marine Georesources and Geotechnology*, **2019**, 37, 568-577	2.2	3
34	Characteristic strength of soils underlying foundations considering effect of spatial variability. *Canadian Geotechnical Journal*, **2020**, 57, 518-536	3.2	3
33	Modeling Seepage Flow and Spatial Variability of Soil Thermal Conductivity during Artificial Ground Freezing for Tunnel Excavation. *Applied Sciences (Switzerland)*, **2021**, 11, 6275	2.6	3
32	Modeling response spectrum compatible pulse-like ground motion. *Mechanical Systems and Signal Processing*, **2022**, 177, 109177	7.8	3
31	Effects of reconsolidation time on holding capacity of deepwater dynamically installed anchors. *Canadian Geotechnical Journal*, **2019**, 56, 1876-1888	3.2	2
30	Effect of mesoscale internal structure on effective thermal conductivity of anisotropic geomaterials. *Acta Geotechnica*,1	4.9	2
29	Maximum Shear Modulus of Cement-Treated Singapore Marine Clay. *DEStech Transactions on Materials Science and Engineering*, **2017**,		2
28	A patching algorithm for conditional random fields in modeling material properties. *Computer Methods in Applied Mechanics and Engineering*, **2021**, 377, 113719	5.7	2
27	Bender Element Measurement for Small-Strain Shear Modulus of Compacted Loess. *International Journal of Geomechanics*, **2021**, 21, 04021063	3.1	2
26	Effect of spatial variability on undrained triaxial test of cement-admixed soil. *Japanese Geotechnical Society Special Publication*, **2016**, 2, 2101-2106	0.2	2
25	Applicability of Continuous, Stationary, and Discrete Wavelet Transforms in Engineering Signal Processing. *Journal of Performance of Constructed Facilities*, **2021**, 35, 04021060	2	2
24	Experimental Investigations on the Mechanical and Microscopic Behavior of Cement-Treated Clay Modified by Nano-MgO and Fibers. *International Journal of Geomechanics*, **2022**, 22,	3.1	2
23	Random finite element analysis on uplift bearing capacity and failure mechanisms of square plate anchors in spatially variable clay. *Engineering Geology*, **2022**, 304, 106677	6	2
22	Experimental Investigations on Effect of Geocell, Waste Tire Chips, and Geocell□ire Chips on Foundation Reinforcement. *Journal of Performance of Constructed Facilities*, **2019**, 33, 04019074	2	1
21	Notice of Retraction: PSO algorithm-based reliability analysis of bearing capacity of multi-pile composite foundation **2010**,		1
20	A large deformation finite element analysis of uplift behaviour for helical anchor in spatially variable clay. *Computers and Geotechnics*, **2022**, 141, 104542	4.4	1
19	Laboratory Investigations on Geotechnical Characteristics of Albumen Treated Loess Soil. *KSCE Journal of Civil Engineering*, **2022**, 26, 539	1.9	1

18	Effect of uncertain hydrothermal properties and freezing temperature on the thermal process of frozen soil around a single freezing pipe. *International Communications in Heat and Mass Transfer*, **2021**, 124, 105267	5.8	1
17	Probabilistically quantifying the effect of geotechnical anisotropy on landslide susceptibility. *Bulletin of Engineering Geology and the Environment*, **2021**, 80, 6615-6627	4	1
16	An effective stress theoretical model for shear resistance and adhesion factor of dynamically installed anchors. *Geotechnique*, **2019**, 69, 1004-1018	3.4	1
15	Experimental Investigations on the Spillway Section Shape of the Breaching Process of Landslide Dams. *International Journal of Geomechanics*, **2022**, 22,	3.1	1
14	Insight into centrifuge modelling errors in predicting embedment depths of dynamically installed anchors. *Canadian Geotechnical Journal*, **2020**, 57, 1796-1804	3.2	0
13	Model updating for slope stability assessment in spatially varying soil parameters using multi-type observations. *Mechanical Systems and Signal Processing*, **2022**, 171, 108906	7.8	0
12	A novel method for modelling the existence of fault fracture zones within 3D weathered rock slopes. *IOP Conference Series: Earth and Environmental Science*, **2021**, 861, 032036	0.3	0
11	Experimental Investigation on Mechanical Properties of Cemented Expansive Soil. *Sustainable Civil Infrastructures*, **2021**, 63-73	0.2	0
10	Experimental and theoretical investigations on fin configuration effects of dynamically installed anchors in clay. *Canadian Geotechnical Journal*, **2021**, 58, 1527-1542	3.2	0
9	Three-Dimensional Seepage Investigation of Riverside Tunnel Construction Considering Heterogeneous Permeability. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2021**, 7, 04021041	1.7	0
8	Probabilistic decoupled approach to estimate seismic rotational displacements of flexible slopes considering depth-dependent soil variability. *Acta Geotechnica*,1	4.9	0
7	Some issues in core strength measurement in cement-soil treatment for deep excavation - Field data study. *Japanese Geotechnical Society Special Publication*, **2016**, 2, 1563-1566	0.2	
6	A Wavelet-Based Fiber Optic Sensors Data Processing Method and Its Application on Embankment Sliding Surface Detection. *Springer Series in Geomechanics and Geoengineering*, **2020**, 333-339	0.1	
5	Application of an immune algorithm to settlement prediction. *Journal of Zhejiang University: Science A*, **2009**, 10, 93-100	2.1	
4	A Design Framework for Spatial Variability in Cement-Treated Soft Clay in Deep Excavations and Underground Constructions. *Developments in Geotechnical Engineering*, **2019**, 59-69	0.4	
3	Preliminary Investigation on Overall Permeability of Granular Mixed Materials. *Sustainable Civil Infrastructures*, **2021**, 97-109	0.2	
2	Model Updating of Slope Stability Analysis Using 3D Conditional Random Fields. *ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering*, **2021**, 7, 04021034	1.7	
1	Large-Scale 3D Random Finite Element Analysis of Embankment Seepage Stability. *Sustainable Civil Infrastructures*, **2021**, 1-13	0.2	