## List of Publications by Year in descending order

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YONG LUL

#	Article	IF	CITATIONS
1	Probabilistic stability analyses of undrained slopes by 3D random fields and finite element methods. Geoscience Frontiers, 2018, 9, 1657-1664.	4.3	105
2	Modified linear estimation method for generating multi-dimensional multi-variate Gaussian field in modelling material properties. Probabilistic Engineering Mechanics, 2014, 38, 42-53.	1.3	102
3	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.	2.5	101
4	Effect of in situ water content variation on the spatial variation of strength of deep cement-mixed clay. Geotechnique, 2019, 69, 391-405.	2.2	99
5	Determination of representative strength of deep cement-mixed clay from core strength data. Geotechnique, 2017, 67, 350-364.	2.2	87
6	Main frequency band of blast vibration signal based on wavelet packet transform. Applied Mathematical Modelling, 2019, 74, 569-585.	2.2	77
7	Effect of spatial variation of strength and modulus on the lateral compression response of cement-admixed clay slab. Geotechnique, 2015, 65, 851-865.	2.2	64
8	A three-dimensional large-deformation random finite-element study of landslide runout considering spatially varying soil. Landslides, 2021, 18, 3149-3162.	2.7	58
9	Effects of the lattice leg on cavities and bearing capacity of deeply embedded spudcans in clay. Geotechnique, 2017, 67, 1-17.	2.2	54
10	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.	2.3	52
11	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.	2.2	47
12	Probabilistic stability analyses of multi-stage soil slopes by bivariate random fields and finite element methods. Computers and Geotechnics, 2020, 122, 103529.	2.3	47
13	Coupled thermal–hydraulic modeling of artificial ground freezing with uncertainties in pipe inclination and thermal conductivity. Acta Geotechnica, 2022, 17, 257-274.	2.9	44
14	Optimal water-cement ratio of cement-stabilized soil. Construction and Building Materials, 2022, 320, 126211.	3.2	44
15	An experimental study of a novel liquid carbon dioxide rock-breaking technology. International Journal of Rock Mechanics and Minings Sciences, 2020, 128, 104244.	2.6	43
16	Estimating the thermal conductivity of soils using six machine learning algorithms. International Communications in Heat and Mass Transfer, 2022, 136, 106139.	2.9	42
17	Probabilistic investigation on defective jet-grouted cut-off wall with random geometric imperfections. Geotechnique, 2019, 69, 420-433.	2.2	40
18	Bounding Surface Cam-Clay Model with Cohesion for Cement-Admixed Clay. International Journal of Geomechanics, 2017, 17, .	1.3	39

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19	Rock-soil slope stability analysis by two-phase random media and finite elements. Geoscience Frontiers, 2018, 9, 1649-1655.	4.3	39
20	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.	3.2	37
21	Translation random field with marginal beta distribution in modeling material properties. Structural Safety, 2016, 61, 57-66.	2.8	36
22	Dynamic prediction of mechanized shield tunneling performance. Automation in Construction, 2021, 132, 103958.	4.8	36
23	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.	3.2	34
24	A large deformation finite element analysis of uplift behaviour for helical anchor in spatially variable clay. Computers and Geotechnics, 2022, 141, 104542.	2.3	34
25	A statistical model for the unconfined compressive strength of deep-mixed columns. Geotechnique, 2016, 66, 351-365.	2.2	33
26	A direct assessment for the stiffness development of artificially cemented clay. Geotechnique, 2019, 69, 741-747.	2.2	33
27	Effects of material and drilling uncertainties on artificial ground freezing of cement-admixed soils. Canadian Geotechnical Journal, 2017, 54, 1659-1671.	1.4	32
28	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.	3.2	32
29	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.	0.9	31
30	Geotechnical stability analysis considering strain softening using micro-polar continuum finite element method. Journal of Central South University, 2021, 28, 297-310.	1.2	31
31	Small-Strain Shear Modulus of Cement-Treated Marine Clay. Journal of Materials in Civil Engineering, 2020, 32, .	1.3	30
32	Model-independent strength-reduction factor for effect of spatial variability on tunnel with improved soil surrounds. Geotechnique, 2021, 71, 406-422.	2.2	29
33	Influence of ground motion duration on the seismic performance of earth slopes based on numerical analysis. Soil Dynamics and Earthquake Engineering, 2021, 143, 106595.	1.9	29
34	Effect of spatial variability on performance of cement-treated soil slab during deep excavation. Construction and Building Materials, 2018, 188, 505-519.	3.2	28
35	Finite-Element Analysis of Heat Transfer of Horizontal Ground-Freezing Method in Shield-Driven Tunneling. International Journal of Geomechanics, 2017, 17, .	1.3	27
36	Probabilistic investigations on the watertightness of jet-grouted ground considering geometric imperfections in diameter and position. Canadian Geotechnical Journal, 2017, 54, 1447-1459.	1.4	26

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37	Model for large strain consolidation under constant rate of strain. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 1574-1590.	1.7	25
38	Random finite element analysis on uplift bearing capacity and failure mechanisms of square plate anchors in spatially variable clay. Engineering Geology, 2022, 304, 106677.	2.9	25
39	Statistical evaluation of the overall strength of a soil-cement column under axial compression. Construction and Building Materials, 2017, 132, 51-60.	3.2	23
40	Holding capacity of dynamically installed anchors in normally consolidated clay under inclined loading. Canadian Geotechnical Journal, 2017, 54, 1257-1271.	1.4	22
41	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.	3.4	22
42	Meso-mechanical investigations on the overall elastic properties of multi-phase construction materials using finite element method. Construction and Building Materials, 2019, 228, 116727.	3.2	21
43	Numerical investigations on the seismic response of a subway tunnel embedded in spatially random clays. Underground Space (China), 2020, 5, 43-52.	3.4	21
44	A novel random discrete element analysis of rock fragmentation. International Journal for Numerical and Analytical Methods in Geomechanics, 2020, 44, 1386-1395.	1.7	21
45	A generalized model for effective thermal conductivity of soils considering porosity and mineral composition. Acta Geotechnica, 2021, 16, 3455-3466.	2.9	21
46	Effect of mesoscale internal structure on effective thermal conductivity of anisotropic geomaterials. Acta Geotechnica, 2022, 17, 3553-3566.	2.9	21
47	Experimental Investigations on the Pull-Out Behavior of Tire Strips Reinforced Sands. Materials, 2017, 10, 707.	1.3	20
48	Stress-dependent behavior of marine clay admixed with fly-ash-blended cement. International Journal of Pavement Research and Technology, 2018, 11, 611-616.	1.3	20
49	Seismic response of pile–raft system embedded in spatially random clay. Geotechnique, 2019, 69, 638-645.	2.2	19
50	Primary yielding locus of cement-stabilized marine clay and its applications. Marine Georesources and Geotechnology, 2019, 37, 488-505.	1.2	19
51	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.	1.3	18
52	Lateral compression response of overlapping jet-grout columns with geometric imperfections in radius and position. Canadian Geotechnical Journal, 2018, 55, 1282-1294.	1.4	18
53	Investigation on the Triaxial Mechanical Characteristics of Cement-Treated Subgrade Soil Admixed with Polypropylene Fiber. Applied Sciences (Switzerland), 2019, 9, 4557.	1.3	18
54	Estimation of failure probability in braced excavation using Bayesian networks with integrated model updating. Underground Space (China), 2020, 5, 315-323.	3.4	18

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55	Modeling response spectrum compatible pulse-like ground motion. Mechanical Systems and Signal Processing, 2022, 177, 109177.	4.4	18
56	Statistical Evaluation of the Load-Settlement Response of a Multicolumn Composite Foundation. International Journal of Geomechanics, 2018, 18, .	1.3	17
57	Analysis of cement-treated soil slab for deep excavation support – a rational approach. Geotechnique, 2019, 69, 888-905.	2.2	16
58	On spectral representation method and Karhunen–LoÔve expansion in modelling construction material properties. Archives of Civil and Mechanical Engineering, 2018, 18, 768-783.	1.9	15
59	Stability of Tunnels in Cement-Admixed Soft Soils with Spatial Variability. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	15
60	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.	1.0	14
61	A three-dimensional algorithm for estimating water-tightness of cement-treated ground with geometric imperfections. Computers and Geotechnics, 2019, 115, 103176.	2.3	14
62	Experimental Investigations on the Mechanical and Microscopic Behavior of Cement-Treated Clay Modified by Nano-MgO and Fibers. International Journal of Geomechanics, 2022, 22, .	1.3	14
63	Effect of sleeves and skirts on mitigating spudcan punch-through in sand overlying normally consolidated clay. Geotechnique, 2019, 69, 283-296.	2.2	12
64	Probabilistic risk assessment of landslide-induced surges considering the spatial variability of soils. Engineering Geology, 2021, 283, 105976.	2.9	12
65	Dyadic wavelet analysis of bender element signals in determining shear wave velocity. Canadian Geotechnical Journal, 2020, 57, 2027-2030.	1.4	11
66	A patching algorithm for conditional random fields in modeling material properties. Computer Methods in Applied Mechanics and Engineering, 2021, 377, 113719.	3.4	11
67	Bender Element Measurement for Small-Strain Shear Modulus of Compacted Loess. International Journal of Geomechanics, 2021, 21, .	1.3	11
68	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.	1.1	11
69	Equivalent Strength for Tunnels in Cement-Admixed Soil Columns with Spatial Variability and Positioning Error. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	10
70	Modeling Seepage Flow and Spatial Variability of Soil Thermal Conductivity during Artificial Ground Freezing for Tunnel Excavation. Applied Sciences (Switzerland), 2021, 11, 6275.	1.3	10
71	Statistical Evaluation for Strength of Pile by Deep Mixing Method. , 2008, , 195-200.		10
72	Determination of limiting cavity depths for offshore spudcan foundations in a spatially varying seabed. Marine Structures, 2020, 71, 102723.	1.6	9

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73	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.	1.9	9
74	Applicability of Continuous, Stationary, and Discrete Wavelet Transforms in Engineering Signal Processing. Journal of Performance of Constructed Facilities, 2021, 35, .	1.0	9
75	Experimental and Numerical Studies of the Excess Pore Pressure Field Surrounding an Advancing Spudcan Footing. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	0.6	8
76	Probabilistically quantifying the effect of geotechnical anisotropy on landslide susceptibility. Bulletin of Engineering Geology and the Environment, 2021, 80, 6615-6627.	1.6	8
77	A modified method to calculate reliability index using maximum entropy principle. Journal of Central South University, 2013, 20, 1058-1063.	1.2	7
78	Statistical Analysis of Earthquake-Induced Bending Moment in Fixed-Head Piles Embedded in Soft Clay. Journal of Engineering Mechanics - ASCE, 2017, 143, .	1.6	7
79	Seismic responses of rectangular subway tunnels in a clayey ground. PLoS ONE, 2018, 13, e0204672.	1.1	7
80	Enhanced Singular Value Truncation Method for Non-Destructive Evaluation of Structural Damage Using Natural Frequencies. Materials, 2019, 12, 1021.	1.3	7
81	An effective stress theoretical model for shear resistance and adhesion factor of dynamically installed anchors. Geotechnique, 2019, 69, 1004-1018.	2.2	7
82	Characteristic strength of soils underlying foundations considering effect of spatial variability. Canadian Geotechnical Journal, 2020, 57, 518-536.	1.4	7
83	Model updating for slope stability assessment in spatially varying soil parameters using multi-type observations. Mechanical Systems and Signal Processing, 2022, 171, 108906.	4.4	7
84	Miniature LVDT setup for local strain measurement on cement-treated clay specimens. Marine Georesources and Geotechnology, 2019, 37, 568-577.	1.2	6
85	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.	2.9	6
86	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, .	1.1	6
87	Experimental and theoretical investigations on fin configuration effects of dynamically installed anchors in clay. Canadian Geotechnical Journal, 2021, 58, 1527-1542.	1.4	6
88	Reliability-Based Design Applied to Multi-Column Composite Foundations. , 2009, , .		5
89	Parallel finite element analysis of seismic soil structure interaction using a PC cluster. Computers and Geotechnics, 2016, 80, 167-177.	2.3	5
90	Effects of reconsolidation time on holding capacity of deepwater dynamically installed anchors. Canadian Geotechnical Journal, 2019, 56, 1876-1888.	1.4	5

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91	Insight into centrifuge modelling errors in predicting embedment depths of dynamically installed anchors. Canadian Geotechnical Journal, 2020, 57, 1796-1804.	1.4	5
92	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.	1.1	5
93	Probabilistic decoupled approach to estimate seismic rotational displacements of flexible slopes considering depth-dependent soil variability. Acta Geotechnica, 2022, 17, 1551-1567.	2.9	5
94	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.	0.9	4
95	Experimental Investigations on Effect of Geocell, Waste Tire Chips, and Geocell–Tire Chips on Foundation Reinforcement. Journal of Performance of Constructed Facilities, 2019, 33, .	1.0	4
96	Laboratory Investigations on Geotechnical Characteristics of Albumen Treated Loess Soil. KSCE Journal of Civil Engineering, 2022, 26, 539-549.	0.9	4
97	Experimental Investigations on the Spillway Section Shape of the Breaching Process of Landslide Dams. International Journal of Geomechanics, 2022, 22, .	1.3	4
98	Maximum Shear Modulus of Cement-Treated Singapore Marine Clay. DEStech Transactions on Materials Science and Engineering, 2017, , .	0.0	3
99	Artificial Ground Freezing Technique in Tunnel Construction Considering Uncertain Drilling Inaccuracy of Freeze Pipes. , 2019, , .		3
100	Application of an immune algorithm to settlement prediction. Journal of Zhejiang University: Science A, 2009, 10, 93-100.	1.3	2
101	Effect of spatial variability on undrained triaxial test of cement-admixed soil. Japanese Geotechnical Society Special Publication, 2016, 2, 2101-2106.	0.2	2
102	Direct Simulation Methods for a Class of Normal and Lognormal Random Fields with Applications in Modeling Material Properties. Journal of Engineering Mechanics - ASCE, 2022, 148, .	1.6	2
103	Modeling Irregularly Inclined Fissure Surfaces within Nonuniform Expansive Soil Slopes. International Journal of Geomechanics, 2022, 22, .	1.3	2
104	Modeling Gaussian and Gamma random fields for layered material properties with transitional zones. Probabilistic Engineering Mechanics, 2022, 69, 103306.	1.3	2
105	An RVE recognition method for non-homogeneous materials based on two-point correlation function. Arabian Journal of Geosciences, 2022, 15, .	0.6	2
106	Notice of Retraction: PSO algorithm-based reliability analysis of bearing capacity of multi-pile composite foundation. , 2010, , .		1
107	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	1
108	Seepage Evaluation in Tunnel Construction Considering the Spatial Variability of Surrounding Soils. , 2019, , .		1

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109	Load-settlement Response of a Composite Foundation: A Reliability-Based Design Approach. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	1
110	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.	0.2	1
111	Hydrothermal Performance of In-Tunnel Ground Freezing Subjected to Drilling Inaccuracy and Seepage Flow. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.1	1
112	Numerical Analysis of a Temperature Field within a Vertical Frozen Soil Wall. , 2016, , .		0
113	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.	0.0	0
114	Preliminary Investigation on Overall Permeability of Granular Mixed Materials. Sustainable Civil Infrastructures, 2021, , 97-109.	0.1	0
115	Large-Scale 3D Random Finite Element Analysis of Embankment Seepage Stability. Sustainable Civil Infrastructures, 2021, , 1-13.	0.1	0
116	Numerical Analysis of Temperature Field of Horizontal Ground Freezing for Large-Diameter Tunnelling. DEStech Transactions on Engineering and Technology Research, 2017, , .	0.0	0
117	Observation of Reinforcement Methods in Organic Disseminated Sand. DEStech Transactions on Materials Science and Engineering, 2017, , .	0.0	0
118	A Design Framework for Spatial Variability in Cement-Treated Soft Clay in Deep Excavations and Underground Constructions. Developments in Geotechnical Engineering, 2019, , 59-69.	0.6	0