Jinsong Huang

List of Publications by Year
in descending order

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Version: 2024-02-01

136 papers	5,667 citations	61857 43 h-index	91712 69 g-index
144 all docs	144 docs citations	144 times ranked	2606 citing authors

#	Article	IF	Citations
1	Non-intrusive reliability analysis of unsaturated embankment slopes accounting for spatial variabilities of soil hydraulic and shear strength parameters. Engineering With Computers, 2022, 38, 1-14.	3.5	28
2	Uncertainty pattern in landslide susceptibility prediction modelling: Effects of different landslide boundaries and spatial shape expressions. Geoscience Frontiers, 2022, 13, 101317.	4.3	74
3	Advances in reliability and risk analyses of slopes in spatially variable soils: A state-of-the-art review. Computers and Geotechnics, 2022, 141, 104498.	2.3	79
4	A comparative study of Bayesian inverse analyses of spatially varying soil parameters for slope reliability updating. Georisk, 2022, 16, 746-765.	2.6	6
5	Optimal geotechnical site investigations for slope reliability assessment considering measurement errors. Engineering Geology, 2022, 297, 106497.	2.9	13
6	A comparative study of different machine learning methods for reservoir landslide displacement prediction. Engineering Geology, 2022, 298, 106544.	2.9	75
7	Development of two-dimensional ground models by combining geotechnical and geophysical data. Engineering Geology, 2022, 300, 106579.	2.9	9
8	Regional rainfall-induced landslide hazard warning based on landslide susceptibility mapping and a critical rainfall threshold. Geomorphology, 2022, 408, 108236.	1.1	73
9	The uncertainty of landslide susceptibility prediction modeling: suitability of linear conditioning factors. Bulletin of Engineering Geology and the Environment, 2022, 81, .	1.6	32
10	A Shear Device with Controlled Boundary Conditions for Very Large Nonplanar Rock Discontinuities. Geotechnical Testing Journal, 2022, 45, 725-752.	0.5	2
11	Landslide susceptibility prediction using an incremental learning Bayesian Network model considering the continuously updated landslide inventories. Bulletin of Engineering Geology and the Environment, 2022, 81, .	1.6	7
12	Efficient reliabilityâ€based design of slope angles in spatially variable soils with field data. International Journal for Numerical and Analytical Methods in Geomechanics, 2022, 46, 2461-2490.	1.7	16
13	Stability analysis of gravity anchorage: a case study of Taizhou Yangtze River Bridge. European Journal of Environmental and Civil Engineering, 2021, 25, 1002-1024.	1.0	4
14	A novel mathematical model for predicting landslide displacement. Soft Computing, 2021, 25, 2453-2466.	2.1	8
15	Experimental study of the failure mode and mechanism of loess fill slopes induced by rainfall. Engineering Geology, 2021, 280, 105941.	2.9	43
16	Simulating Subgrade Soil Fluidization Using LBM-DEM Coupling. International Journal of Geomechanics, 2021, 21, .	1.3	13
17	Uncertainty study of landslide susceptibility prediction considering the different attribute interval numbers of environmental factors and different data-based models. Catena, 2021, 202, 105250.	2.2	69
18	Efficient and automatic extraction of slope units based on multi-scale segmentation method for landslide assessments. Landslides, 2021, 18, 3715-3731.	2.7	63

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19	Landslide susceptibility zonation method based on C5.0 decision tree and K-means cluster algorithms to improve the efficiency of risk management. Geoscience Frontiers, 2021, 12, 101249.	4.3	109
20	Hydro-mechanical coupling in unsaturated soils covering a non-deformable structure. Computers and Geotechnics, 2020, 117, 103287.	2.3	38
21	A deep learning algorithm using a fully connected sparse autoencoder neural network for landslide susceptibility prediction. Landslides, 2020, 17, 217-229.	2.7	278
22	Global sensitivity analysis of the hydraulic parameters of the reservoir colluvial landslides in the Three Gorges Reservoir area, China. Landslides, 2020, 17, 483-494.	2.7	11
23	Bayesian Approach for Sequential Probabilistic Back Analysis of Uncertain Geomechanical Parameters and Reliability Updating of Tunneling-Induced Ground Settlements. Advances in Civil Engineering, 2020, 2020, 1-13.	0.4	1
24	Regional Terrain Complexity Assessment Based on Principal Component Analysis and Geographic Information System: A Case of Jiangxi Province, China. ISPRS International Journal of Geo-Information, 2020, 9, 539.	1.4	11
25	Uncertainties Analysis of Collapse Susceptibility Prediction Based on Remote Sensing and GIS: Influences of Different Data-Based Models and Connections between Collapses and Environmental Factors. Remote Sensing, 2020, 12, 4134.	1.8	37
26	Systematic Literature Review on Data-Driven Models for Predictive Maintenance of Railway Track: Implications in Geotechnical Engineering. Geosciences (Switzerland), 2020, 10, 425.	1.0	32
27	Bayesian back analysis of landslides considering slip surface uncertainty. Landslides, 2020, 17, 2125-2136.	2.7	12
28	Study on the creep behaviours and the improved Burgers model of a loess landslide considering matric suction. Natural Hazards, 2020, 103, 1479-1497.	1.6	26
29	Automatic identification of the critical slip surface of slopes. Engineering Geology, 2020, 273, 105672.	2.9	15
30	Landslide Susceptibility Prediction Considering Regional Soil Erosion Based on Machine-Learning Models. ISPRS International Journal of Geo-Information, 2020, 9, 377.	1.4	44
31	Landslide Susceptibility Prediction Modeling Based on Remote Sensing and a Novel Deep Learning Algorithm of a Cascade-Parallel Recurrent Neural Network. Sensors, 2020, 20, 1576.	2.1	67
32	Efficient probabilistic back analysis of spatially varying soil parameters for slope reliability assessment. Engineering Geology, 2020, 271, 105597.	2.9	76
33	Landslide susceptibility prediction based on a semi-supervised multiple-layer perceptron model. Landslides, 2020, 17, 2919-2930.	2.7	173
34	Phase-field modeling of hydraulic fracture network propagation in poroelastic rocks. Computational Geosciences, 2020, 24, 1767-1782.	1.2	19
35	A smoothed finite element method using second-order cone programming. Computers and Geotechnics, 2020, 123, 103547.	2.3	21
36	Dike-Break Induced Flood Simulation and Consequences Assessment in Flood Detention Basin. Springer Series in Geomechanics and Geoengineering, 2020, , 295-310.	0.0	2

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37	Importance of soil property sampling location in slope stability assessment. Canadian Geotechnical Journal, 2019, 56, 335-346.	1.4	23
38	Back analysis of settlement of Teven Road trial embankment using Bayesian updating. Georisk, 2019, 13, 320-325.	2.6	12
39	A static discrete element method with discontinuous deformation analysis. International Journal for Numerical Methods in Engineering, 2019, 120, 918-935.	1.5	7
40	A Novel Numerical Model for Fluid Flow in 3D Fractured Porous Media Based on an Equivalent Matrix-Fracture Network. Geofluids, 2019, 2019, 1-13.	0.3	9
41	Optimal geotechnical site investigations for slope design. Computers and Geotechnics, 2019, 114, 103111.	2.3	22
42	Three-dimensional spherical discontinuous deformation analysis using second-order cone programming. Computers and Geotechnics, 2019, 112, 319-328.	2.3	11
43	Probabilistic Analysis of Shallow Passive Trapdoor in Cohesive Soil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	8
44	Bayesian updating for progressive excavation of high rock slopes using multi-type monitoring data. Engineering Geology, 2019, 252, 1-13.	2.9	42
45	Secondâ€order cone programming formulation of discontinuous deformation analysis. International Journal for Numerical Methods in Engineering, 2019, 118, 243-257.	1.5	27
46	Effects of Desiccation Cracks on Slope Reliability. , 2019, , .		3
47	Quantitative Risk Assessment of Individual Landslides. , 2019, , .		2
48	Efficient Probabilistic Back Analysis of Slopes Accounting for Spatial Variation of Soil Properties. , 2019, , .		0
49	A discrete numerical method for brittle rocks using mathematical programming. Acta Geotechnica, 2018, 13, 283.	2.9	12
50	Object-oriented change detection and damage assessment using high-resolution remote sensing images, Tangjiao Landslide, Three Gorges Reservoir, China. Environmental Earth Sciences, 2018, 77, 1.	1.3	55
51	Modeling of non-stationary random field of undrained shear strength of soil for slope reliability analysis. Soils and Foundations, 2018, 58, 185-198.	1.3	57
52	Embankment prediction using testing data and monitored behaviour: A Bayesian updating approach. Computers and Geotechnics, 2018, 93, 150-162.	2.3	50
53	Outcomes of the Newcastle symposium for the prediction of embankment behaviour on soft soil. Computers and Geotechnics, 2018, 93, 9-41.	2.3	42
54	Probabilistic characterization of two-dimensional soil profile by integrating cone penetration test (CPT) with multi-channel analysis of surface wave (MASW) data. Canadian Geotechnical Journal, 2018, 55, 1168-1181.	1.4	29

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55	Discrete modelling jointed rock slopes using mathematical programming methods. Computers and Geotechnics, 2018, 96, 189-202.	2.3	44
56	Closure to â€œQuasi-Static Rheology of Granular Media Using the Static DEMâ€•by J. Meng, J. Huang, D. Sheng, and S. W. Sloan. International Journal of Geomechanics, 2018, 18, 07018016.	1.3	0
57	Approximate Analytical Solutions for One-Dimensional Consolidation of a Clay Layer with Variable Compressibility and Permeability under a Ramp Loading. International Journal of Geomechanics, 2018, 18, .	1.3	19
58	Stability analysis of unsaturated soil slopes under random rainfall patterns. Engineering Geology, 2018, 245, 322-332.	2.9	62
59	Probabilistic Analysis of Tunnel Face Stability below River Using Bayesian Framework. Mathematical Problems in Engineering, 2018, 2018, 1-8.	0.6	2
60	Modelling of spatial variability of soil undrained shear strength by conditional random fields for slope reliability analysis. Applied Mathematical Modelling, 2018, 63, 374-389.	2.2	120
61	The Effects of Sampling Number in Slope Stability Assessment. , 2018, , .		0
62	An Analytical Conditional Random field Sampling Approach for Slope Reliability Analysis. , 2018, , .		0
63	On the efficient estimation of small failure probability in slopes. Landslides, 2017, 14, 491-498.	2.7	59
64	Landslide displacement prediction based on multivariate chaotic model and extreme learning machine. Engineering Geology, 2017, 218, 173-186.	2.9	212
65	Identification of representative slip surfaces for reliability analysis of soil slopes based on shear strength reduction. Computers and Geotechnics, 2017, 85, 199-206.	2.3	44
66	Probabilistic stability analyses of undrained slopes with linearly increasing mean strength. Geotechnique, 2017, 67, 733-746.	2.2	59
67	Prediction of groundwater levels using evidence of chaos and support vector machine. Journal of Hydroinformatics, 2017, 19, 586-606.	1.1	67
68	Landslide susceptibility mapping based on self-organizing-map network and extreme learning machine. Engineering Geology, 2017, 223, 11-22.	2.9	164
69	Undrained stability of a single circular tunnel in spatially variable soil subjected to surcharge loading. Computers and Geotechnics, 2017, 84, 16-27.	2.3	36
70	Probabilistic stability assessment using adaptive limit analysis and random fields. Acta Geotechnica, 2017, 12, 937-948.	2.9	51
71	Probabilistic Stability Analysis of Slopes by Conditional Random Fields. , 2017, , .		14
72	Undrained Stability of an Unlined Square Tunnel in Spatially Random Soil. , 2017, , .		7

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73	Obtaining 2-D High-Resolution Cone Tip Resistance Fields. , 2017, , .		0
74	Probabilistic Design of Slopes in Normally Consolidated Clays. , 2017, , .		0
75	Quantitative risk assessment of slope failure in 2-D spatially variable soils by limit equilibrium method. Applied Mathematical Modelling, 2017, 47, 710-725.	2.2	75
76	The bearing capacity of spudcan foundations under combined loading in spatially variable soils. Engineering Geology, 2017, 227, 139-148.	2.9	42
77	Quasi-Static Rheology of Granular Media Using the Static DEM. International Journal of Geomechanics, 2017, 17, 04017094.	1.3	8
78	Long-term strength of soil-cement columns in coastal areas. Soils and Foundations, 2017, 57, 645-654.	1.3	29
79	Bearing capacity of spudcan foundations in a spatially varying clayey seabed. Ocean Engineering, 2017, 143, 97-105.	1.9	25
80	Efficient system reliability analysis of rock slopes based on Subset simulation. Computers and Geotechnics, 2017, 82, 31-42.	2.3	31
81	Granular contact dynamics with elastic bond model. Acta Geotechnica, 2017, 12, 479-493.	2.9	17
82	Probabilistic analysis of soil-water characteristic curve with Bayesian approach and its application on slope stability under rainfall via a difference equations approach. Journal of Difference Equations and Applications, 2017, 23, 322-333.	0.7	5
83	A web-based GPS system for displacement monitoring and failure mechanism analysis of reservoir landslide. Scientific Reports, 2017, 7, 17171.	1.6	33
84	Failure analysis of an infinite unsaturated soil slope. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2016, 169, 410-420.	0.9	16
85	Probabilistic identification of soil stratification. Geotechnique, 2016, 66, 16-26.	2.2	74
86	Poro-mechanical coupling influences on potential for rainfall-induced shallow landslides in unsaturated soils. Advances in Water Resources, 2016, 98, 114-121.	1.7	53
87	Updating reliability of single piles and pile groups by load tests. Computers and Geotechnics, 2016, 73, 221-230.	2.3	31
88	Efficient slope reliability analysis at low-probability levels in spatially variable soils. Computers and Geotechnics, 2016, 75, 18-27.	2.3	145
89	Modelling spatial variability in geotechnical engineering. Georisk, 2016, 10, 1-1.	2.6	5
90	Buried footings in random soils: comparison of limit analysis and finite element analysis. Georisk, 2016, 10, 55-65.	2.6	11

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91	Experiment and Modeling of Soil-Water Characteristic Curve of Unsaturated Soil in Collapsing Erosion Area. Polish Journal of Environmental Studies, 2016, 25, 2509-2517.	0.6	5
92	Updating Single Pile Capacity by Load Tests. , 2015, , .		0
93	Stochastic assessment for the behaviour of systems of dry soil mix columns. Computers and Geotechnics, 2015, 66, 75-84.	2.3	8
94	Determining an appropriate finite element size for modelling the strength of undrained random soils. Computers and Geotechnics, 2015, 69, 506-513.	2.3	78
95	Bayesian updating for one-dimensional consolidation measurements. Canadian Geotechnical Journal, 2015, 52, 1318-1330.	1.4	46
96	Boundary effects of rainfall-induced landslides. Computers and Geotechnics, 2014, 61, 341-354.	2.3	63
97	Simplified quantitative risk assessment of rainfall-induced landslides modelled by infinite slopes. Engineering Geology, 2014, 179, 102-116.	2.9	108
98	Effect of spatial variability on failure mechanism location in random undrained slopes. , 2014, , 1255-1258.		0
99	New Inversion Method to Determine In-Situ Stress From Borehole Induced Fractures. , 2014, , .		0
100	Upper limit of borehole fluid pressure to prevent near wellbore shear failure. , 2014, , 1687-1690.		0
101	Quantitative risk assessment of landslide by limit analysis and random fields. Computers and Geotechnics, 2013, 53, 60-67.	2.3	177
102	Three-dimensional granular contact dynamics with rolling resistance. Computers and Geotechnics, 2013, 49, 289-298.	2.3	48
103	Stochastic Evaluation of Hydraulic Hysteresis in Unsaturated Soils. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 1211-1214.	1.5	6
104	Statistical homogenization of elastic properties of cement paste based on X-ray microtomography images. International Journal of Solids and Structures, 2013, 50, 699-709.	1.3	47
105	Numerical analysis of effective elastic properties of geomaterials containing voids using 3D random fields and finite elements. International Journal of Solids and Structures, 2013, 50, 3233-3241.	1.3	34
106	A Benchmark Slope For System Reliability Analysis. , 2013, , .		1
107	Reliability analysis of beams on random elastic foundations. Geotechnique, 2013, 63, 180-188.	2.2	16
108	Granular contact dynamics with particle elasticity. Granular Matter, 2012, 14, 607-619.	1.1	39

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109	Risk Assessment in Geotechnical Engineering: Stability Analysis of Highly Variable Soils. , 2012, , .		7
110	Granular contact dynamics using mathematical programming methods. Computers and Geotechnics, 2012, 43, 165-176.	2.3	60
111	Initiation pressure, location and orientation of hydraulic fracture. International Journal of Rock Mechanics and Minings Sciences, 2012, 49, 59-67.	2.6	67
112	Homogenization of geomaterials containing voids by random fields and finite elements. International Journal of Solids and Structures, 2012, 49, 2006-2014.	1.3	41
113	Characterizing Natural-Fracture Permeability From Mud-Loss Data. SPE Journal, 2011, 16, 111-114.	1.7	31
114	Probabilistic Finite Element Analysis of a Raft Foundation Supported by Drilled Shafts in Karst. , 2011, , .		3
115	Probabilistic infinite slope analysis. Computers and Geotechnics, 2011, 38, 577-584.	2.3	202
116	Numerical and analytical observations on long and infinite slopes. International Journal for Numerical and Analytical Methods in Geomechanics, 2011, 35, 569-585.	1.7	62
117	In situ stress determination from inversion of hydraulic fracturing data. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 476-481.	2.6	28
118	Observations on FORM in a simple geomechanics example. Structural Safety, 2011, 33, 115-119.	2.8	21
119	Closure to â€œProbabilistic Analysis of Coupled Soil Consolidationâ€•by Jinsong Huang, D. V. Griffiths, and Gordon A. Fenton. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 858-860.	1.5	0
120	System Reliability of Slopes by RFEM. Soils and Foundations, 2010, 50, 343-353.	1.3	154
121	Probabilistic Analysis of Coupled Soil Consolidation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 417-430.	1.5	82
122	One-dimensional consolidation theories for layered soil and coupled and uncoupled solutions by the finite-element method. Geotechnique, 2010, 60, 709-713.	2.2	55
123	Probabilistic and Deterministic Slope Stability Analysis by Random Finite Elements. , 2010, , .		8
124	Comparison of Slope Reliability Methods of Analysis. , 2010, , .		5
125	Return Mapping Algorithms and Stress Predictors for Failure Analysis in Geomechanics. Journal of Engineering Mechanics - ASCE, 2009, 135, 276-284.	1.6	46
126	On the reliability of earth slopes in three dimensions. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2009, 465, 3145-3164.	1.0	55

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127	Elastic stiffness of straightâ€sided triangular finite elements by analytical and numerical integration. Communications in Numerical Methods in Engineering, 2009, 25, 247-262.	1.3	12
128	Observations on the extended Matsuokaâ€“Nakai failure criterion. International Journal for Numerical and Analytical Methods in Geomechanics, 2009, 33, 1889-1905.	1.7	18
129	Influence of Spatial Variability on Slope Reliability Using 2-D Random Fields. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 1367-1378.	1.5	416
130	Observations on Return Mapping Algorithms for Piecewise Linear Yield Criteria. International Journal of Geomechanics, 2008, 8, 253-265.	1.3	30
131	One-Dimensional Probabilistic Uncoupled Consolidation Analysis by the Random Finite Element Method. , 2008, , .		2
132	Analysis of Infinite Slopes with Spatially Random Shear Strength. , 2008, , .		3
133	Nonlinear Buckling of Composite Shells of Revolution. Journal of Aerospace Engineering, 2002, 15, 64-71.	0.8	3
134	Finite-element strength and stability analysis and experimental studies of a submarine-launched missile's composite dome. Engineering Structures, 2000, 22, 1189-1194.	2.6	11
135	Analysis and calculation of the nonlinear stability of the rotational composite shell. Applied Mathematics and Mechanics (English Edition), 2000, 21, 209-216.	1.9	1
136	Discretization Errors of Random Fields in Finite Element Analysis. Applied Mechanics and Materials, 0, 553, 405-409.	0.2	5