

Jie Zhang

List of Publications by Year in descending order

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88
papers

3,859
citations

117453

34
h-index

128067

60
g-index

92
all docs

92
docs citations

92
times ranked

1937
citing authors

#	ARTICLE	IF	CITATIONS
1	Quality Utility—A Compromise Programming Approach to Robust Design. Journal of Mechanical Design, Transactions of the ASME, 1999, 121, 179-187.	1.7	278
2	Stability analysis of rainfall-induced slope failure: a review. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2011, 164, 299-316.	0.9	206
3	Efficient system reliability analysis illustrated for a retaining wall and a soil slope. Computers and Geotechnics, 2011, 38, 196-204.	2.3	151
4	Bayesian Framework for Characterizing Geotechnical Model Uncertainty. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2009, 135, 932-940.	1.5	149
5	Back analysis of slope failure with Markov chain Monte Carlo simulation. Computers and Geotechnics, 2010, 37, 905-912.	2.3	149
6	New methods for system reliability analysis of soil slopes. Canadian Geotechnical Journal, 2011, 48, 1138-1148.	1.4	134
7	Probabilistic methods for unified treatment of geotechnical and geological uncertainties in a geotechnical analysis. Engineering Geology, 2019, 249, 148-161.	2.9	118
8	Efficient Probabilistic Back-Analysis of Slope Stability Model Parameters. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2010, 136, 99-109.	1.5	114
9	Investigation of the evolutionary process of a reinforced model slope using a fiber-optic monitoring network. Engineering Geology, 2015, 186, 34-43.	2.9	114
10	Application of the Kriging-Based Response Surface Method to the System Reliability of Soil Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 651-655.	1.5	113
11	Optimization of site exploration program for improved prediction of tunneling-induced ground settlement in clays. Computers and Geotechnics, 2014, 56, 69-79.	2.3	106
12	Probabilistic prediction of rainfall-induced slope failure using a mechanics-based model. Engineering Geology, 2014, 168, 129-140.	2.9	101
13	Influence of spatial variability of soil Young's modulus on tunnel convergence in soft soils. Engineering Geology, 2017, 228, 357-370.	2.9	95
14	Ground and tunnel responses induced by partial leakage in saturated clay with anisotropic permeability. Engineering Geology, 2015, 189, 104-115.	2.9	92
15	Extension of Hassan and Wolff method for system reliability analysis of soil slopes. Engineering Geology, 2013, 160, 81-88.	2.9	88
16	Characterising geotechnical model uncertainty by hybrid Markov Chain Monte Carlo simulation. Computers and Geotechnics, 2012, 43, 26-36.	2.3	83
17	Distributed fiber optic monitoring and stability analysis of a model slope under surcharge loading. Journal of Mountain Science, 2014, 11, 979-989.	0.8	80
18	Flattening of jointed shield-driven tunnel induced by longitudinal differential settlements. Tunnelling and Underground Space Technology, 2012, 31, 20-32.	3.0	72

#	ARTICLE	IF	CITATIONS
19	System reliability analysis of soil slopes stabilized with piles. <i>Engineering Geology</i> , 2017, 229, 45-52.	2.9	69
20	Grouting-based treatment of tunnel settlement: Practice in Shanghai. <i>Tunnelling and Underground Space Technology</i> , 2018, 80, 181-196.	3.0	66
21	Robust Geotechnical Design of Drilled Shafts in Sand: New Design Perspective. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 2007-2019.	1.5	65
22	Geotechnical reliability analysis with limited data: Consideration of model selection uncertainty. <i>Engineering Geology</i> , 2014, 181, 27-37.	2.9	61
23	Probabilistic slope stability analysis considering the variability of hydraulic conductivity under rainfall infiltration—redistribution conditions. <i>Engineering Geology</i> , 2014, 183, 1-13.	2.9	60
24	In situ rainfall infiltration studies at a hillside in Hubei Province, China. <i>Engineering Geology</i> , 2000, 57, 31-38.	2.9	58
25	Fiber Bragg grating-based performance monitoring of a slope model subjected to seepage. <i>Smart Materials and Structures</i> , 2014, 23, 095027.	1.8	58
26	Robust Geotechnical Design of Earth Slopes Using Fuzzy Sets. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	1.5	57
27	Robust geotechnical design of shield-driven tunnels. <i>Computers and Geotechnics</i> , 2014, 56, 191-201.	2.3	55
28	Kriging Numerical Models for Geotechnical Reliability Analysis. <i>Soils and Foundations</i> , 2011, 51, 1169-1177.	1.3	52
29	Unsaturated soil slope characterization with Karhunen—Loève and polynomial chaos via Bayesian approach. <i>Engineering With Computers</i> , 2019, 35, 337-350.	3.5	51
30	Reliability-Based Optimization of Geotechnical Systems. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 1211-1221.	1.5	50
31	Slope Reliability Analysis Considering Site-Specific Performance Information. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 227-238.	1.5	45
32	Identification of representative slip surfaces for reliability analysis of soil slopes based on shear strength reduction. <i>Computers and Geotechnics</i> , 2017, 85, 199-206.	2.3	44
33	Efficient response surface method for practical geotechnical reliability analysis. <i>Computers and Geotechnics</i> , 2015, 69, 496-505.	2.3	42
34	Risk assessment of slope failure considering multiple slip surfaces. <i>Computers and Geotechnics</i> , 2016, 74, 188-195.	2.3	41
35	Evaluating Model Uncertainty of an SPT-based Simplified Method for Reliability Analysis for Probability of Liquefaction. <i>Soils and Foundations</i> , 2009, 49, 135-152.	1.3	36
36	Calibration of empirical models considering model fidelity and model robustness — Focusing on predictions of liquefaction-induced settlements. <i>Engineering Geology</i> , 2016, 203, 168-177.	2.9	35

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37	Improved analytical model for circumferential behavior of jointed shield tunnels considering the longitudinal differential settlement. <i>Tunnelling and Underground Space Technology</i> , 2015, 45, 153-165.	3.0	33
38	Probabilistic calibration of a coupled hydro-mechanical slope stability model with integration of multiple observations. <i>Georisk</i> , 2018, 12, 169-182.	2.6	33
39	Predicting liquefaction probability based on shear wave velocity: an update. <i>Bulletin of Engineering Geology and the Environment</i> , 2016, 75, 1199-1214.	1.6	32
40	Simplified analysis method for predicting the influence of deep excavation on existing tunnels. <i>Computers and Geotechnics</i> , 2020, 121, 103477.	2.3	32
41	Inter-region variability of Robertson and Wride method for liquefaction hazard analysis. <i>Engineering Geology</i> , 2016, 203, 191-203.	2.9	28
42	Bayesian network for characterizing model uncertainty of liquefaction potential evaluation models. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 714-722.	0.9	27
43	Calibrating cross-site variability for reliability-based design of pile foundations. <i>Computers and Geotechnics</i> , 2014, 62, 154-163.	2.3	27
44	Evaluation of generalized linear models for soil liquefaction probability prediction. <i>Environmental Earth Sciences</i> , 2013, 68, 1925-1933.	1.3	25
45	Reliability analysis of slope stability under seismic condition during a given exposure time. <i>Landslides</i> , 2018, 15, 2303-2313.	2.7	25
46	Model Tests by Centrifuge of Soil Nail Reinforcements. <i>Journal of Testing and Evaluation</i> , 2001, 29, 315-328.	0.4	24
47	Establishing region-specific $N \sim V$ relationships through hierarchical Bayesian modeling. <i>Engineering Geology</i> , 2021, 287, 106105.	2.9	23
48	Back-Analysis and Parameter Identification for Deep Excavation Based on Pareto Multiobjective Optimization. <i>Journal of Aerospace Engineering</i> , 2015, 28, .	0.8	22
49	Influences of internal erosion on infiltration and slope stability. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 1815-1827.	1.6	21
50	Bayesian network based machine learning for design of pile foundations. <i>Automation in Construction</i> , 2020, 118, 103295.	4.8	21
51	Conditions of Hydraulic Heterogeneity under Which Bayesian Estimation is More Reliable. <i>Water (Switzerland)</i> , 2020, 12, 160.	1.2	20
52	Bayesian Methods for Geotechnical Applications—A Practical Guide. , 2017, , .		19
53	Value of information analysis of site investigation program for slope design. <i>Computers and Geotechnics</i> , 2021, 131, 103938.	2.3	18
54	Binary classification method for efficient and accurate system reliability analyses of layered soil slopes. <i>Georisk</i> , 0, , 1-17.	2.6	17

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55	Assessing the annual risk of vehicles being hit by a rainfall-induced landslide: a case study on Kennedy Road in Wan Chai, Hong Kong. <i>Natural Hazards and Earth System Sciences</i> , 2020, 20, 1833-1846.	1.5	16
56	Assessing annual probability of rainfall-induced slope failure through a mechanics-based model. <i>Acta Geotechnica</i> , 2022, 17, 949-964.	2.9	16
57	Reliability-based code revision for design of pile foundations: Practice in Shanghai, China. <i>Soils and Foundations</i> , 2015, 55, 637-649.	1.3	14
58	Probabilistic prediction of slope failure time. <i>Engineering Geology</i> , 2020, 271, 105586.	2.9	14
59	Bayesian machine learning-based method for prediction of slope failure time. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1188-1199.	3.7	14
60	Quantitative risk assessment of landslides with direct simulation of pre-failure to post-failure behaviors. <i>Acta Geotechnica</i> , 2022, 17, 4497-4514.	2.9	13
61	Probabilistic performance assessment of shield tunnels subjected to accidental surcharges. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 1500-1509.	2.0	12
62	Calibrating a standard penetration test based method for region-specific liquefaction potential assessment. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 5185-5204.	1.6	10
63	System reliability analysis of soil slopes through constrained optimization. <i>Landslides</i> , 2021, 18, 655-666.	2.7	10
64	Characterization of spatial variability with observed responses: application of displacement back estimation. <i>Journal of Zhejiang University: Science A</i> , 2020, 21, 478-495.	1.3	8
65	Study of time-dependent reliability of old man-made slopes considering model uncertainty. <i>Georisk</i> , 2009, 3, 106-113.	2.6	7
66	Effect of Soil Spatial Variability on Ground Settlement Induced by Shield Tunnelling. , 2017, , .		7
67	Developing joint distribution of a max and M w of seismic loading for performance-based assessment of liquefaction induced structural damage. <i>Engineering Geology</i> , 2018, 232, 1-11.	2.9	7
68	Assessing indirect economic losses of landslides along highways. <i>Natural Hazards</i> , 2021, 106, 2775-2796.	1.6	6
69	Chinese code methods for liquefaction potential assessment based on standard penetration test: An extension. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 144, 106697.	1.9	6
70	Performance-based assessment of permanent displacement of soil slopes using two-dimensional dynamic analysis. <i>Georisk</i> , 2022, 16, 178-195.	2.6	6
71	Reliability-based Assessment of Stability of Slopes. <i>IOP Conference Series: Earth and Environmental Science</i> , 2015, 26, 012006.	0.2	5
72	Probabilistic Methods for Assessing Soil Liquefaction Potential and Effect. , 2017, , .		5

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73	Importance sampling for system reliability analysis of soil slopes based on shear strength reduction. Georisk, 2020, , 1-12.	2.6	5
74	Depth-consistent models for probabilistic liquefaction potential assessment based on shear wave velocity. Bulletin of Engineering Geology and the Environment, 2022, 81, .	1.6	5
75	Bayesian estimation of soil-water characteristic curves. Canadian Geotechnical Journal, 2022, 59, 569-582.	1.4	4
76	Performance Assessment of Deteriorating Reinforced Concrete Drainage Culverts: A case study. Engineering Failure Analysis, 2021, 131, 105845.	1.8	4
77	Assessing expected benefit of site investigation program for reliability-based design of slope. Engineering Geology, 2022, 306, 106749.	2.9	4
78	Assessment of Error Assumption in Probabilistic Model Calibration of Rainfall Infiltration in Soil Slope. , 2017, , .		3
79	A FORM-based approach for probabilistic analysis in geotechnics: Application to a reinforced concrete drainage culvert. International Journal for Numerical and Analytical Methods in Geomechanics, 2019, 43, 2090-2105.	1.7	3
80	Prediction of Vibration Induced by High-Speed Train: Consideration of Soil Spatial Variability. , 2017, , .		2
81	Case Histories of Liquefaction-Induced Building Damage“Focusing on the 22 February 2011 Christchurch Earthquake. , 2018, , .		1
82	Developing Region-Specific Liquefaction Assessment Criterion for Bachu Region, China. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2020, 6, .	1.1	1
83	Performance of Subset Simulation Applied to A Simple System Reliability Problem. , 2012, , .		1
84	<i>R</i> -LRFD: <i>Robust</i> Load and Resistance Factor Design. , 2015, , .		0
85	Discussion on “Assessment of the application of point estimate methods in the probabilistic stability analysis of slopes” by A. Morteza and P. Rainer [Comput. Geotech. 69 (2015) 540–550]. Computers and Geotechnics, 2016, 75, 257-259.	2.3	0
86	Assessment of Site Exploration Program Considering Spatial Variability of Soils. , 2018, , 265-272.		0
87	Kriging based Response Surface Method for Geotechnical Reliability Analysis. , 2011, , .		0
88	Reliability analysis of karst roof stability based on strength reduction method. IOP Conference Series: Earth and Environmental Science, 2021, 861, 072118.	0.2	0