Dian-Qing Li

List of Publications by Year
in descending order

96 papers	4,848 citations	81743 39 h-index	98622 67 g-index
97 all docs	97 docs citations	97 times ranked	1642 citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Correlation between grain shape and critical state characteristics of uniformly graded sands: A 3D DEM study. Acta Geotechnica, 2022, 17, 2783-2798.	2.9	23
3	Efficient and flexible Bayesian updating of embankment settlement on soft soils based on different monitoring datasets. Acta Geotechnica, 2022, 17, 1273-1294.	2.9	7
4	Adaptive Monte Carlo Simulation Method and Its Applications to Reliability Analysis of Series Systems with a Large Number of Components. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2022, 8, .	1.1	1
5	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
6	Bayesian learning of Gaussian mixture model for calculating debris flow exceedance probability. Georisk, 2022, 16, 154-177.	2.6	5
7	Effect of mesoscale internal structure on effective thermal conductivity of anisotropic geomaterials. Acta Geotechnica, 2022, 17, 3553-3566.	2.9	21
8	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
9	Two-stage Bayesian experimental design optimization for measuring soil–water characteristic curve. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	1.6	1
10	Modeling Irregularly Inclined Fissure Surfaces within Nonuniform Expansive Soil Slopes. International Journal of Geomechanics, 2022, 22, .	1.3	2
11	Identification of optimal ground-motion intensity measures for assessing liquefaction triggering and lateral displacement of liquefiable sloping grounds. Earthquake Spectra, 2022, 38, 2707-2730.	1.6	8
12	Model-independent strength-reduction factor for effect of spatial variability on tunnel with improved soil surrounds. Geotechnique, 2021, 71, 406-422.	2.2	29
13	Efficient Bayesian characterization of cohesion and friction angle of soil using parametric bootstrap method. Bulletin of Engineering Geology and the Environment, 2021, 80, 1809-1828.	1.6	7
14	A patching algorithm for conditional random fields in modeling material properties. Computer Methods in Applied Mechanics and Engineering, 2021, 377, 113719.	3.4	11
15	Response surface guided adaptive slope reliability analysis in spatially varying soils. Computers and Geotechnics, 2021, 132, 103966.	2.3	34
16	Reply to the discussion on "Modeling multivariate cross-correlated geotechnical random fields using vine copulas for slope reliability analysis". Computers and Geotechnics, 2021, 132, 104023.	2.3	1
17	Probabilistically quantifying the effect of geotechnical anisotropy on landslide susceptibility. Bulletin of Engineering Geology and the Environment, 2021, 80, 6615-6627.	1.6	8
18	A generalized model for effective thermal conductivity of soils considering porosity and mineral composition. Acta Geotechnica, 2021, 16, 3455-3466.	2.9	21

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19	Reliability-based monitoring sensitivity analysis for reinforced slopes using BUS and subset simulation methods. Engineering Geology, 2021, 293, 106331.	2.9	11
20	Probabilistic Seismic Displacement Hazard Assessment of Earth Slopes Incorporating Spatially Random Soil Parameters. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2021, 147, .	1.5	14
21	Effects of specimen preparation method and strain rate on the mechanical responses of a clayey loess. Arabian Journal of Geosciences, 2021, 14, 1.	0.6	0
22	Subset simulation for efficient slope reliability analysis involving copula-based cross-correlated random fields. Computers and Geotechnics, 2020, 118, 103326.	2.3	50
23	Adaptive Monte Carlo simulation method for system reliability analysis of slope stability based on limit equilibrium methods. Engineering Geology, 2020, 264, 105384.	2.9	59
24	Probabilistic characterization and simulation of realistic particle shape based on sphere harmonic representation and Nataf transformation. Powder Technology, 2020, 360, 209-220.	2.1	39
25	Modeling multivariate distribution of multiple soil parameters using vine copula model. Computers and Geotechnics, 2020, 118, 103340.	2.3	36
26	Modeling multivariate cross-correlated geotechnical random fields using vine copulas for slope reliability analysis. Computers and Geotechnics, 2020, 127, 103784.	2.3	41
27	Influence of spatial variability of soil strength parameters on probabilistic seismic slope displacement hazard analysis. Engineering Geology, 2020, 276, 105744.	2.9	35
28	Expanded Database Assessment of Design Methods for Spread Foundations under Axial Compression and Uplift Loading. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	9
29	Jackknifing for modeling sampling properties of soil statistics for geotechnical reliability analysis. Computers and Geotechnics, 2020, 125, 103685.	2.3	12
30	SS-XGBoost: A Machine Learning Framework for Predicting Newmark Sliding Displacements of Slopes. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2020, 146, .	1.5	59
31	Numerical simulation of the 1995 rainfall-induced Fei Tsui Road landslide in Hong Kong: new insights from hydro-mechanically coupled material point method. Landslides, 2020, 17, 2755-2775.	2.7	31
32	Vine Copula-Based Dependence Modeling of Multivariate Ground-Motion Intensity Measures and the Impact on Probabilistic Seismic Slope Displacement Hazard Analysis. Bulletin of the Seismological Society of America, 2020, 110, 2967-2990.	1.1	9
33	Bayesian identification of soil stratigraphy based on soil behaviour type index. Canadian Geotechnical Journal, 2019, 56, 570-586.	1.4	66
34	Two-stage dimension reduction method for meta-model based slope reliability analysis in spatially variable soils. Structural Safety, 2019, 81, 101872.	2.8	27
35	Reliability analysis of unsaturated slope stability considering SWCC model selection and parameter uncertainties. Engineering Geology, 2019, 260, 105207.	2.9	58
36	Investigation of slope failure mode evolution during large deformation in spatially variable soils by random limit equilibrium and material point methods. Computers and Geotechnics, 2019, 111, 301-312.	2.3	78

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37	Stepwise covariance matrix decomposition for efficient simulation of multivariate large-scale three-dimensional random fields. Applied Mathematical Modelling, 2019, 68, 169-181.	2.2	48
38	Area failure probability method for slope system failure risk assessment. Computers and Geotechnics, 2019, 107, 36-44.	2.3	31
39	Joint Probability Modeling for Two Debris-Flow Variables: Copula Approach. Natural Hazards Review, 2018, 19, .	0.8	5
40	Determination of site-specific soil-water characteristic curve from a limited number of test data â€" A Bayesian perspective. Geoscience Frontiers, 2018, 9, 1665-1677.	4.3	38
41	Embankment prediction using testing data and monitored behaviour: A Bayesian updating approach. Computers and Geotechnics, 2018, 93, 150-162.	2.3	50
42	Efficient method for probabilistic estimation of spatially varied hydraulic properties in a soil slope based on field responses: A Bayesian approach. Computers and Geotechnics, 2018, 102, 262-272.	2.3	69
43	Revisiting statistical correlation between Mohr-Coulomb shear strength parameters of Hoek-Brown rock masses. Tunnelling and Underground Space Technology, 2018, 77, 36-44.	3.0	6
44	Effect of spatial variability of shear strength parameters on critical slip surfaces of slopes. Engineering Geology, 2018, 239, 41-49.	2.9	84
45	CPT-Based Probabilistic Characterization of Three-Dimensional Spatial Variability Using MLE. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2018, 144, .	1.5	79
46	Robustness of Subset Simulation to Functional Forms of Limit State Functions in System Reliability Analysis: Revisiting and Improvement. IEEE Transactions on Reliability, 2018, 67, 66-78.	3.5	8
47	Bayesian model comparison and characterization of bivariate distribution for shear strength parameters of soil. Computers and Geotechnics, 2018, 95, 110-118.	2.3	49
48	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
49	Statistical characterization of shear strength parameters of rock mass for hydropower projects in China. Engineering Geology, 2018, 245, 258-265.	2.9	18
50	Copula-based earthquake early warning decision-making strategy. Soil Dynamics and Earthquake Engineering, 2018, 115, 324-330.	1.9	8
51	Reliability sensitivity analysis of geotechnical monitoring variables using Bayesian updating. Engineering Geology, 2018, 245, 130-140.	2.9	16
52	Slope stability analysis in the Three Gorges Reservoir Area considering effect of antecedent rainfall. Georisk, 2017, 11, 161-172.	2.6	19
53	Reliability-based robust geotechnical design using Monte Carlo simulation. Bulletin of Engineering Geology and the Environment, 2017, 76, 1217-1227.	1.6	29
54	System reliability analysis of slope stability using generalized Subset Simulation. Applied Mathematical Modelling, 2017, 46, 650-664.	2.2	65

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55	Model Uncertainty for Predicting the Bearing Capacity of Sand Overlying Clay. International Journal of Geomechanics, 2017, 17, .	1.3	34
56	Full probabilistic design of slopes in spatially variable soils using simplified reliability analysis method. Georisk, 2017, 11, 146-159.	2.6	38
57	Auxiliary Random Finite Element Method for Risk Assessment of 3-D Slope. , 2017, , .		2
58	Efficient System Reliability Analysis of Multi-Layered Soil Slopes Using Multiple Stochastic Response Surfaces. , 2017, , .		4
59	Impact of sample size on geotechnical probabilistic model identification. Computers and Geotechnics, 2017, 87, 229-240.	2.3	30
60	Probabilistic Stratification Modeling in Geotechnical Site Characterization. ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering, 2017, 3, .	1.1	25
61	Reliability evaluation of slope considering geological uncertainty and inherent variability of soil parameters. Computers and Geotechnics, 2017, 92, 121-131.	2.3	77
62	An analytical method for quantifying the correlation among slope failure modes in spatially variable soils. Bulletin of Engineering Geology and the Environment, 2017, 76, 1343-1352.	1.6	8
63	Simulation of geologic uncertainty using coupled Markov chain. Engineering Geology, 2016, 207, 129-140.	2.9	89
64	Robust estimation of correlation coefficients among soil parameters under the multivariate normal framework. Structural Safety, 2016, 63, 21-32.	2.8	19
65	Site-specific characterization of soil properties using multiple measurements from different test procedures at different locations â€" A Bayesian sequential updating approach. Engineering Geology, 2016, 211, 150-161.	2.9	56
66	Chapter 4 Statistical characterization of multivariate geotechnical data. , 2016, , 89-126.		19
67	Bayesian identification of random field model using indirect test data. Engineering Geology, 2016, 210, 197-211.	2.9	60
68	Three-dimensional slope reliability and risk assessment using auxiliary random finite element method. Computers and Geotechnics, 2016, 79, 146-158.	2.3	109
69	Evaluating slope stability uncertainty using coupled Markov chain. Computers and Geotechnics, 2016, 73, 72-82.	2.3	92
70	Efficient and consistent reliability analysis of soil slope stability using both limit equilibrium analysis and finite element analysis. Applied Mathematical Modelling, 2016, 40, 5216-5229.	2.2	80
71	Response surface methods for slope reliability analysis: Review and comparison. Engineering Geology, 2016, 203, 3-14.	2.9	197
72	Enhancement of random finite element method in reliability analysis and risk assessment of soil slopes using Subset Simulation. Landslides, 2016, 13, 293-303.	2.7	187

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73	Estimation of horizontal transition probability matrix for coupled Markov chain. Japanese Geotechnical Society Special Publication, 2016, 2, 2423-2428.	0.2	0
74	Reliability analysis of strip footing considering spatially variable undrained shear strength that linearly increases with depth. Soils and Foundations, 2015, 55, 866-880.	1.3	56
75	A multiple response-surface method for slope reliability analysis considering spatial variability of soil properties. Engineering Geology, 2015, 187, 60-72.	2.9	340
76	Efficient reliability updating of slope stability by reweighting failure samples generated by Monte Carlo simulation. Computers and Geotechnics, 2015, 69, 588-600.	2.3	30
77	Efficient 3-D reliability analysis of the 530m high abutment slope at Jinping I Hydropower Station during construction. Engineering Geology, 2015, 195, 269-281.	2.9	44
78	Bivariate distribution of shear strength parameters using copulas and its impact on geotechnical system reliability. Computers and Geotechnics, 2015, 68, 184-195.	2.3	88
79	Bootstrap method for characterizing the effect of uncertainty in shear strength parameters on slope reliability. Reliability Engineering and System Safety, 2015, 140, 99-106.	5.1	57
80	Characterization of uncertainty in probabilistic model using bootstrap method and its application to reliability of piles. Applied Mathematical Modelling, 2015, 39, 5310-5326.	2.2	41
81	Copula-based approaches for evaluating slope reliability under incomplete probability information. Structural Safety, 2015, 52, 90-99.	2.8	156
82	Efficient System Reliability Analysis of Slope Stability in Spatially Variable Soils Using Monte Carlo Simulation. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	262
83	Effect of spatially variable shear strength parameters with linearly increasing mean trend on reliability of infinite slopes. Structural Safety, 2014, 49, 45-55.	2.8	197
84	Reliability analysis of serviceability performance for an underground cavern using a non-intrusive stochastic method. Environmental Earth Sciences, 2014, 71, 1169-1182.	1.3	23
85	Time-dependent system reliability of anchored rock slopes considering rock bolt corrosion effect. Engineering Geology, 2014, 175, 1-8.	2.9	47
86	Slope reliability analysis considering spatially variable shear strength parameters using a non-intrusive stochastic finite element method. Engineering Geology, 2014, 168, 120-128.	2.9	302
87	Bivariate simulation using copula and its application to probabilistic pile settlement analysis. International Journal for Numerical and Analytical Methods in Geomechanics, 2013, 37, 597-617.	1.7	108
88	Impact of copula selection on geotechnical reliability under incomplete probability information. Computers and Geotechnics, 2013, 49, 264-278.	2.3	159
89	Impact of copulas for modeling bivariate distributions on system reliability. Structural Safety, 2013, 44, 80-90.	2.8	98
90	Modeling multivariate distributions using Monte Carlo simulation for structural reliability analysis with complex performance function. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 109-118.	0.6	11

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91	Bivariate distribution models using copulas for reliability analysis. Proceedings of the Institution of Mechanical Engineers, Part O: Journal of Risk and Reliability, 2013, 227, 499-512.	0.6	27
92	Impact of translation approach for modelling correlated non-normal variables on parallel system reliability. Structure and Infrastructure Engineering, 2013, 9, 969-982.	2.0	12
93	A comparative study of three collocation point methods for odd order stochastic response surface method. Structural Engineering and Mechanics, 2013, 45, 595-611.	1.0	26
94	Performance of translation approach for modeling correlated non-normal variables. Structural Safety, 2012, 39, 52-61.	2.8	44
95	Improved knowledge-based clustered partitioning approach and its application to slope reliability analysis. Computers and Geotechnics, 2012, 45, 34-43.	2.3	46
96	System reliability analysis of rock slope stability involving correlated failure modes. KSCE Journal of Civil Engineering, 2011, 15, 1349-1359.	0.9	34