

Jian Ji

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/6040174/publications.pdf>

Version: 2024-02-01

53
papers

1,392
citations

331259

21
h-index

344852

36
g-index

53
all docs

53
docs citations

53
times ranked

790
citing authors

#	ARTICLE	IF	CITATIONS
1	Reliability based failure assessment of deteriorated cast iron pipes lined with polymeric liners. <i>Structure and Infrastructure Engineering</i> , 2023, 19, 1516-1529.	2.0	0
2	An extended numerical manifold method for two-phase seepage stress coupling process modelling in fractured porous medium. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2022, 391, 114514.	3.4	14
3	Predicting pipeline corrosion in heterogeneous soils using numerical modelling and artificial neural networks. <i>Acta Geotechnica</i> , 2022, 17, 1463-1476.	2.9	6
4	Efficient Geotechnical Reliability Analysis Using Weighted Uniform Simulation Method Involving Correlated Nonnormal Random Variables. <i>Journal of Engineering Mechanics - ASCE</i> , 2022, 148, .	1.6	10
5	Limit state line-based seismic stability charts for homogeneous earth slopes. <i>Computers and Geotechnics</i> , 2022, 146, 104749.	2.3	6
6	A GIS-based tool for probabilistic physical modelling and prediction of landslides: GIS-FORM landslide susceptibility analysis in seismic areas. <i>Landslides</i> , 2022, 19, 2213-2231.	2.7	30
7	A fully nonlinear coupled seismic displacement model for earth slope with multiple slip surfaces. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 159, 107353.	1.9	3
8	Closed-form solutions for regional earthquake induced landslide prediction: rotational failure mechanism. <i>Landslides</i> , 2022, 19, 2671-2684.	2.7	2
9	Probabilistic investigation of the seismic displacement of earth slopes under stochastic ground motion: a rotational sliding block analysis. <i>Canadian Geotechnical Journal</i> , 2021, 58, 952-968.	1.4	36
10	Time-dependent reliability analysis of rainfall-induced shallow landslides considering spatial variability of soil permeability. <i>Computers and Geotechnics</i> , 2021, 129, 103903.	2.3	26
11	A simplified nonlinear coupled Newmark displacement model with degrading yield acceleration for seismic slope stability analysis. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2021, 45, 1303-1322.	1.7	19
12	Failure assessment of reinforced rock slopes subjected to bolt corrosion considering correlated multiple failure modes. <i>Computers and Geotechnics</i> , 2021, 132, 104029.	2.3	9
13	A generalized seismic sliding model of slopes with multiple slip surfaces. <i>Earthquake Engineering and Structural Dynamics</i> , 2021, 50, 2595-2612.	2.5	12
14	A practical reliability assessment approach and its application for pile-stabilized slopes using FORM and support vector machine. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 6513-6525.	1.6	11
15	Undrained Bearing Capacity of Strip Footing near Slopes Considering the Orientation of Strength Increase. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	4
16	An efficient probabilistic design approach for tunnel face stability by inverse reliability analysis. <i>Geoscience Frontiers</i> , 2021, 12, 101210.	4.3	17
17	Numerical Investigation of Coupled Effects of Temperature and Confining Pressure on Rock Mechanical Properties in Fractured Rock Mass Using Thermal-Stress-Aperture Coupled Model. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	11
18	Optimum Scheme Selection for Multilayer Perceptron-Based Monte Carlo Simulation of Slope System Reliability. <i>International Journal of Geomechanics</i> , 2021, 21, .	1.3	6

#	ARTICLE	IF	CITATIONS
19	A numerical investigation and probabilistic analysis of excavation earth retaining wall instability caused by underground pipeline leakage. Computers and Geotechnics, 2021, 139, 104431.	2.3	2
20	Undrained stability analysis of trenches for buried submarine pipelines. Marine Georesources and Geotechnology, 2020, 38, 583-594.	1.2	6
21	Reliability analysis on permanent displacement of earth slopes using the simplified Bishop method. Computers and Geotechnics, 2020, 117, 103286.	2.3	58
22	Probabilistic failure investigation of small diameter cast iron pipelines for water distribution. Engineering Failure Analysis, 2020, 108, 104239.	1.8	24
23	Undrained bearing capacity of skids/pedrails during trenching for buried submarine pipelines. Computers and Geotechnics, 2020, 119, 103362.	2.3	8
24	SPH-based analysis of the post-failure flow behavior for soft and hard interbedded earth slope. Engineering Geology, 2020, 267, 105446.	2.9	13
25	Conditional probability-based system reliability analysis for geotechnical problems. Computers and Geotechnics, 2020, 126, 103751.	2.3	9
26	A Simplified Viscoelastic Solution of the Frost Heaving Force of Cavity Water behind Tunnel Linings. Advances in Civil Engineering, 2020, 2020, 1-8.	0.4	5
27	Behavior and design of reinforced concrete frames retrofitted with steel bracing against progressive collapse. Structural Design of Tall and Special Buildings, 2020, 29, e1771.	0.9	9
28	Spatial variability effect of internal friction angle on the post-failure behavior of landslides using a random and non-Newtonian fluid based SPH method. Geoscience Frontiers, 2020, 11, 1107-1121.	4.3	25
29	China's early warning system progress. Science, 2019, 365, 332-332.	6.0	19
30	Probabilistic assessment of seismic stability of a rock slope by combining the simulation of stochastic ground motion with permanent displacement analysis. Engineering Geology, 2019, 260, 105210.	2.9	22
31	Analysis of failure initiation in corroded cast iron pipes under cyclic loading due to formation of through-wall cracks. Engineering Failure Analysis, 2019, 103, 238-248.	1.8	12
32	Reliability-based design for geotechnical engineering: An inverse FORM approach for practice. Computers and Geotechnics, 2019, 111, 22-29.	2.3	98
33	Effect of 2D spatial variability on slope reliability: A simplified FORM analysis. Geoscience Frontiers, 2018, 9, 1631-1638.	4.3	98
34	Hyperbolic constitutive model to study cast iron pipes in 3-D nonlinear finite element analyses. Engineering Failure Analysis, 2017, 75, 26-36.	1.8	5
35	Numerical interpretation of pressurized corroded cast iron pipe tests. International Journal of Mechanical Sciences, 2017, 128-129, 116-124.	3.6	19
36	A Practical HLRF Algorithm for Slope Reliability Analysis. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
37	Evaluation of the performance of a breakage model for high porosity Haubourdin chalk. <i>Computers and Geotechnics</i> , 2017, 90, 113-119.	2.3	4
38	Moving least squares method for reliability assessment of rock tunnel excavation considering ground-support interaction. <i>Computers and Geotechnics</i> , 2017, 84, 88-100.	2.3	50
39	Reliability based design optimization for a rock tunnel support system with multiple failure modes using response surface method. <i>Tunnelling and Underground Space Technology</i> , 2017, 70, 1-10.	3.0	63
40	New Observations on the Application of LS-SVM in Slope System Reliability Analysis. <i>Journal of Computing in Civil Engineering</i> , 2017, 31, .	2.5	45
41	Probabilistic physical modelling of corroded cast iron pipes for lifetime prediction. <i>Structural Safety</i> , 2017, 64, 62-75.	2.8	63
42	Implicit integration of simple breakage constitutive model for crushable granular materials: A numerical test. <i>Computers and Geotechnics</i> , 2017, 82, 43-53.	2.3	7
43	The grain effect of intact rock modelling using discrete element method with Voronoi grains. <i>Geotechnique Letters</i> , 2016, 6, 136-143.	0.6	27
44	Evaluation of soil-concrete interface shear strength based on LS-SVM. <i>Geomechanics and Engineering</i> , 2016, 11, 361-372.	0.9	10
45	Efficient reliability method for implicit limit state surface with correlated non-Gaussian variables. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2015, 39, 1898-1911.	1.7	31
46	Prediction of stress concentration factor of corrosion pits on buried pipes by least squares support vector machine. <i>Engineering Failure Analysis</i> , 2015, 55, 131-138.	1.8	62
47	Discrete element modeling on the crack evolution behavior of brittle sandstone containing three fissures under uniaxial compression. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2015, 31, 871-889.	1.5	33
48	A simplified approach for modeling spatial variability of undrained shear strength in out-plane failure mode of earth embankment. <i>Engineering Geology</i> , 2014, 183, 315-323.	2.9	29
49	Long embankment failure accounting for longitudinal spatial variation – A probabilistic study. <i>Computers and Geotechnics</i> , 2014, 61, 50-56.	2.3	27
50	Sensitivity-based reliability analysis of earth slopes using finite element method. <i>Geomechanics and Engineering</i> , 2014, 6, 545-560.	0.9	15
51	Probabilistic Strength-Reduction Stability Analysis of Slopes Accounting for 2-D Spatial Variation. <i>Key Engineering Materials</i> , 2013, 535-536, 582-585.	0.4	1
52	Stratified Response Surfaces for System Probabilistic Evaluation of Slopes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2012, 138, 1398-1406.	1.5	141
53	Modeling 2-D spatial variation in slope reliability analysis using interpolated autocorrelations. <i>Computers and Geotechnics</i> , 2012, 40, 135-146.	2.3	130