

# Lei Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

49  
papers

1,159  
citations

430754

18  
h-index

454834

30  
g-index

49  
all docs

49  
docs citations

49  
times ranked

637  
citing authors

#	ARTICLE	IF	CITATIONS
1	Pareto-optimal performance-based robust design of braced excavations in soft clay with response surface methodology. <i>Marine Georesources and Geotechnology</i> , 2023, 41, 353-365.	1.2	1
2	Robust Optimization for Stability of I-Walls and Levee System Resting on Sandy Foundation. <i>KSCE Journal of Civil Engineering</i> , 2022, 26, 57-68.	0.9	1
3	A comparative study of Bayesian inverse analyses of spatially varying soil parameters for slope reliability updating. <i>Georisk</i> , 2022, 16, 746-765.	2.6	6
4	Safety Assessment of Pile-Founded T-Walls in the Face of Flooding Hazards. , 2022, , .		0
5	Robust design optimization of retaining wall backfilled with shredded tire in the face of earthquake hazards. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 1351-1363.	1.6	12
6	Probabilistic Stability Assessment of Earthen Levees Subjected to Earthquake Loads. , 2021, , .		0
7	Robust Design of Road-Sign Structure Footing in Face of Uncertainties. , 2021, , .		0
8	Probabilistic back analysis for improved reliability of geotechnical predictions considering parameters uncertainty, model bias, and observation error. <i>Tunnelling and Underground Space Technology</i> , 2021, 115, 104051.	3.0	19
9	Large-scale field test on abandoned deep anhydrite mine-out for reuse as crude oil storage – A case study. <i>Engineering Geology</i> , 2020, 267, 105477.	2.9	12
10	Experimental investigation on the long-term interactions of anhydrite rock, crude oil, and water in a mine-out space for crude-oil storage. <i>Engineering Geology</i> , 2020, 265, 105414.	2.9	13
11	Optimization design of stabilizing piles in slopes considering spatial variability. <i>Acta Geotechnica</i> , 2020, 15, 3243-3259.	2.9	45
12	Influence of Gaps in Capping Clay Layer on Liquefaction. , 2019, , .		0
13	Stability analysis of a group of underground anhydrite caverns used for crude oil storage considering rock tensile properties. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 6249-6265.	1.6	12
14	Functional efficiency assessment of the water curtain system in an underground water-sealed oil storage cavern based on time-series monitoring data. <i>Engineering Geology</i> , 2018, 239, 79-95.	2.9	37
15	Geotechnical Stability Analysis of Earthen Levees in the Face of Uncertainty. , 2018, , .		1
16	Simplified-robust geotechnical design of soldier pile–anchor tieback shoring system for deep excavation. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 157-169.	1.2	17
17	Site Characterization in Geotechnical Engineering – Does a Random Field Model Always Outperform a Random Variable Model?. , 2017, , .		0
18	Practical Robust Geotechnical Design of Supported Excavations – A Case History of Excavation in Taiwan. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Reliability-Based Geotechnical Design of Geothermal Foundations. , 2017, , .		3
20	Reliability Analysis of Geosynthetic Reinforced Soil Walls. , 2017, , .		1
21	Response surface-based robust geotechnical design of supported excavation “ spreadsheet-based solution. Georisk, 2017, 11, 90-102.	2.6	11
22	Bayesian Updating of a Spatially Varied Soil Property for Enhancing Reliability in Drilled Shaft Design. , 2016, , .		1
23	Probabilistic geotechnical analysis of energy piles in granular soils. Engineering Geology, 2016, 209, 119-127.	2.9	29
24	Simplified procedure for reliability-based robust geotechnical design of drilled shafts in clay using spreadsheet. Georisk, 2016, 10, 121-134.	2.6	4
25	Extended Kalman Filter for the Inverse Analysis of a Supported Excavation Based on Field Monitoring Data for Improving Predictions of Ground Responses. , 2016, , .		0
26	Mitigation of Soil Liquefaction Using Stone Columns: An Experimental Investigation. Marine Georesources and Geotechnology, 2016, 34, 244-251.	1.2	14
27	Assessing Liquefaction-Induced Lateral Spreads Using CPT Cases from the Christchurch, New Zealand, Earthquakes. , 2015, , .		0
28	Robust Design Optimization Applied to Braced Excavations. , 2015, , .		0
29	Reliability-Based Robust Geotechnical Design of Rock Bolts for Slope Stabilization. , 2015, , .		1
30	Simplified procedure for finite element analysis of the longitudinal performance of shield tunnels considering spatial soil variability in longitudinal direction. Computers and Geotechnics, 2015, 64, 132-145.	2.3	92
31	Robust Geotechnical Design of Earth Slopes Using Fuzzy Sets. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2015, 141, .	1.5	57
32	Robust design in geotechnical engineering “ an update. Georisk, 2014, 8, 217-234.	2.6	32
33	Moment Methods for Assessing the Probability of Serviceability Failure in Braced Excavations. , 2014, , .		1
34	Optimization of Site Exploration Effort to Improve the Accuracy of Tunneling-Induced Ground Settlement Prediction in Soft Clays. , 2014, , .		0
35	Robust Design of Braced Excavations Using Multiobjective Optimization-Focusing on Prevention of Damage to Adjacent Buildings. , 2014, , .		1
36	Effect of Spatial Variability on the Reliability-Based Design of Drilled Shafts. , 2014, , .		0

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37	Optimization of site exploration program for improved prediction of tunneling-induced ground settlement in clays. <i>Computers and Geotechnics</i> , 2014, 56, 69-79.	2.3	106
38	Robust design of rock slopes with multiple failure modes: modeling uncertainty of estimated parameter statistics with fuzzy number. <i>Environmental Earth Sciences</i> , 2014, 72, 2957-2969.	1.3	27
39	Robust geotechnical design of braced excavations in clays. <i>Structural Safety</i> , 2014, 49, 37-44.	2.8	43
40	Robust geotechnical design of shield-driven tunnels. <i>Computers and Geotechnics</i> , 2014, 56, 191-201.	2.3	55
41	Probabilistic Inverse Analysis of Excavation-Induced Wall and Ground Responses for Assessing Damage Potential of Adjacent Buildings. <i>Geotechnical and Geological Engineering</i> , 2014, 32, 273-285.	0.8	27
42	Strength and deformation characteristics of compacted silt from the lower reaches of the Yellow River of China under monotonic and repeated loading. <i>Engineering Geology</i> , 2014, 178, 49-57.	2.9	46
43	Simplified procedure for estimation of liquefaction-induced settlement and site-specific probabilistic settlement exceedance curve using cone penetration test (CPT). <i>Canadian Geotechnical Journal</i> , 2013, 50, 1055-1066.	1.4	56
44	Probabilistic back analysis of slope failure – A case study in Taiwan. <i>Computers and Geotechnics</i> , 2013, 51, 12-23.	2.3	100
45	Reliability-based design of rock slopes – A new perspective on design robustness. <i>Engineering Geology</i> , 2013, 154, 56-63.	2.9	80
46	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
47	Reliability-based robust geotechnical design of spread foundations using multi-objective genetic algorithm. <i>Computers and Geotechnics</i> , 2013, 48, 96-106.	2.3	80
48	Updating Uncertain Soil Parameters by Maximum Likelihood Method for Predicting Maximum Ground and Wall Movements in Braced Excavations. , 2013, , .		5
49	Bayesian updating of KJHH model for prediction of maximum ground settlement in braced excavations using centrifuge data. <i>Computers and Geotechnics</i> , 2012, 44, 1-8.	2.3	46