

# Hong-Wei Huang

## List of Publications by Year in descending order

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200  
papers

6,715  
citations

47006

47  
h-index

82547

72  
g-index

202  
all docs

202  
docs citations

202  
times ranked

3293  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning based image recognition for crack and leakage defects of metro shield tunnel. <i>Tunnelling and Underground Space Technology</i> , 2018, 77, 166-176.	6.2	291
2	An adaptive extended Kalman filter for structural damage identification. <i>Structural Control and Health Monitoring</i> , 2006, 13, 849-867.	4.0	268
3	Simulation of strongly non-Gaussian processes using Karhunen-Loeve expansion. <i>Probabilistic Engineering Mechanics</i> , 2005, 20, 188-198.	2.7	197
4	Influence of Deep Excavations on Nearby Existing Tunnels. <i>International Journal of Geomechanics</i> , 2013, 13, 170-180.	2.7	173
5	An efficient optimization method for identifying parameters of soft structured clay by an enhanced genetic algorithm and elastic-viscoplastic model. <i>Acta Geotechnica</i> , 2017, 12, 849-867.	5.7	156
6	Resiliency assessment of urban rail transit networks: Shanghai metro as an example. <i>Safety Science</i> , 2018, 106, 230-243.	4.9	147
7	Quantitative vulnerability estimation for scenario-based landslide hazards. <i>Landslides</i> , 2010, 7, 125-134.	5.4	135
8	Bayesian Updating of Soil Parameters for Braced Excavations Using Field Observations. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 395-406.	3.0	134
9	Application of the Kriging-Based Response Surface Method to the System Reliability of Soil Slopes. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 651-655.	3.0	113
10	Rate-Dependent and Long-Term Yield Stress and Strength of Soft Wenzhou Marine Clay: Experiments and Modeling. <i>Marine Georesources and Geotechnology</i> , 2015, 33, 79-91.	2.1	109
11	Optimization of site exploration program for improved prediction of tunneling-induced ground settlement in clays. <i>Computers and Geotechnics</i> , 2014, 56, 69-79.	4.7	106
12	Resilience analysis of shield tunnel lining under extreme surcharge: Characterization and field application. <i>Tunnelling and Underground Space Technology</i> , 2016, 51, 301-312.	6.2	105
13	Application of ground penetrating radar in grouting evaluation for shield tunnel construction. <i>Tunnelling and Underground Space Technology</i> , 2010, 25, 99-107.	6.2	101
14	Probabilistic prediction of rainfall-induced slope failure using a mechanics-based model. <i>Engineering Geology</i> , 2014, 168, 129-140.	6.3	101
15	Deformational responses of operated shield tunnel to extreme surcharge: a case study. <i>Structure and Infrastructure Engineering</i> , 2017, 13, 345-360.	3.7	101
16	Inspection equipment study for subway tunnel defects by grey-scale image processing. <i>Advanced Engineering Informatics</i> , 2017, 32, 188-201.	8.0	96
17	Influence of spatial variability of soil Young's modulus on tunnel convergence in soft soils. <i>Engineering Geology</i> , 2017, 228, 357-370.	6.3	95
18	Simplified procedure for finite element analysis of the longitudinal performance of shield tunnels considering spatial soil variability in longitudinal direction. <i>Computers and Geotechnics</i> , 2015, 64, 132-145.	4.7	92

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19	Probabilistic analysis of tunnel longitudinal performance based upon conditional random field simulation of soil properties. <i>Tunnelling and Underground Space Technology</i> , 2018, 73, 1-14.	6.2	92
20	Extension of Hassan and Wolff method for system reliability analysis of soil slopes. <i>Engineering Geology</i> , 2013, 160, 81-88.	6.3	88
21	Fully probabilistic analysis of FRP-to-concrete bonded joints considering model uncertainty. <i>Composite Structures</i> , 2018, 185, 786-806.	5.8	87
22	Characterising geotechnical model uncertainty by hybrid Markov Chain Monte Carlo simulation. <i>Computers and Geotechnics</i> , 2012, 43, 26-36.	4.7	83
23	Multi-objective optimization-based updating of predictions during excavation. <i>Engineering Applications of Artificial Intelligence</i> , 2019, 78, 102-123.	8.1	82
24	Deep learning-based image instance segmentation for moisture marks of shield tunnel lining. <i>Tunnelling and Underground Space Technology</i> , 2020, 95, 103156.	6.2	78
25	Sequential non-linear least-square estimation for damage identification of structures. <i>International Journal of Non-Linear Mechanics</i> , 2006, 41, 124-140.	2.6	74
26	Effect of ground surface surcharge on deformational performance of tunnel in spatially variable soil. <i>Computers and Geotechnics</i> , 2021, 136, 104229.	4.7	74
27	Predicting the grouting effect on leakage-induced tunnels and ground response in saturated soils. <i>Tunnelling and Underground Space Technology</i> , 2017, 65, 76-90.	6.2	73
28	Flattening of jointed shield-driven tunnel induced by longitudinal differential settlements. <i>Tunnelling and Underground Space Technology</i> , 2012, 31, 20-32.	6.2	72
29	Sequential non-linear least-square estimation for damage identification of structures with unknown inputs and unknown outputs. <i>International Journal of Non-Linear Mechanics</i> , 2007, 42, 789-801.	2.6	71
30	Automated extraction and evaluation of fracture trace maps from rock tunnel face images via deep learning. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 142, 104745.	5.8	71
31	System reliability analysis of soil slopes stabilized with piles. <i>Engineering Geology</i> , 2017, 229, 45-52.	6.3	69
32	Deep learning based classification of rock structure of tunnel face. <i>Geoscience Frontiers</i> , 2021, 12, 395-404.	8.4	69
33	Novel approach to estimate vertical scale of fluctuation based on CPT data using convolutional neural networks. <i>Engineering Geology</i> , 2021, 294, 106342.	6.3	68
34	Centrifuge modelling of deep excavation over existing tunnels. <i>Proceedings of the Institution of Civil Engineers: Geotechnical Engineering</i> , 2014, 167, 3-18.	1.6	67
35	Void-induced liner deformation and stress redistribution. <i>Tunnelling and Underground Space Technology</i> , 2014, 40, 263-276.	6.2	66
36	Elastoplastic modeling of sand-silt mixtures. <i>Soils and Foundations</i> , 2016, 56, 520-532.	3.1	66

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37	Probability of serviceability failure in a braced excavation in a spatially random field: Fuzzy finite element approach. <i>Computers and Geotechnics</i> , 2011, 38, 1031-1040.	4.7	65
38	Robust Geotechnical Design of Drilled Shafts in Sand: New Design Perspective. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2013, 139, 2007-2019.	3.0	65
39	Geotechnical reliability analysis with limited data: Consideration of model selection uncertainty. <i>Engineering Geology</i> , 2014, 181, 27-37.	6.3	61
40	A new rheological model and its application in mountain tunnelling. <i>Tunnelling and Underground Space Technology</i> , 2008, 23, 292-299.	6.2	60
41	Quantitative evaluation of geological uncertainty and its influence on tunnel structural performance using improved coupled Markov chain. <i>Acta Geotechnica</i> , 2021, 16, 3709-3724.	5.7	59
42	Robust Geotechnical Design of Earth Slopes Using Fuzzy Sets. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2015, 141, .	3.0	57
43	Simulation of non-Gaussian processes using fractile correlation. <i>Probabilistic Engineering Mechanics</i> , 2004, 19, 287-292.	2.7	55
44	Reinforcement mechanics of passive bolts in conventional tunnelling. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2007, 44, 625-636.	5.8	55
45	Robust geotechnical design of shield-driven tunnels. <i>Computers and Geotechnics</i> , 2014, 56, 191-201.	4.7	55
46	Evolutionary polynomial regression based modelling of clay compressibility using an enhanced hybrid real-coded genetic algorithm. <i>Engineering Geology</i> , 2016, 210, 158-167.	6.3	52
47	Damage detection and quantitative analysis of shield tunnel structure. <i>Automation in Construction</i> , 2018, 94, 303-316.	9.8	51
48	Structural responses and treatments of shield tunnel due to leakage: A case study. <i>Tunnelling and Underground Space Technology</i> , 2020, 103, 103471.	6.2	49
49	Machine learning-based classification of rock discontinuity trace: SMOTE oversampling integrated with GBT ensemble learning. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 309-322.	10.3	48
50	Comparison analysis on present image-based crack detection methods in concrete structures. , 2010, , .		45
51	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.	4.7	44
52	A deep learning-based approach for refined crack evaluation from shield tunnel lining images. <i>Automation in Construction</i> , 2021, 132, 103934.	9.8	44
53	Efficient response surface method for practical geotechnical reliability analysis. <i>Computers and Geotechnics</i> , 2015, 69, 496-505.	4.7	42
54	Influence of multi-layered soil formation on shield tunnel lining behavior. <i>Tunnelling and Underground Space Technology</i> , 2015, 47, 123-135.	6.2	41

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55	Risk assessment of slope failure considering multiple slip surfaces. <i>Computers and Geotechnics</i> , 2016, 74, 188-195.	4.7	41
56	Towards Automated 3D Inspection of Water Leakages in Shield Tunnel Linings Using Mobile Laser Scanning Data. <i>Sensors</i> , 2020, 20, 6669.	3.8	41
57	Comparison between Karhunenâ€œLoeve and wavelet expansions for simulation of Gaussian processes. <i>Computers and Structures</i> , 2004, 82, 985-991.	4.4	39
58	Field data-based probabilistic assessment on degradation of deformational performance for shield tunnel in soft clay. <i>Tunnelling and Underground Space Technology</i> , 2017, 67, 107-119.	6.2	39
59	Random evolution of multiple cracks and associated mechanical behaviors of segmental tunnel linings using a multiscale modeling method. <i>Tunnelling and Underground Space Technology</i> , 2019, 90, 220-230.	6.2	38
60	Quantification of water inflow in rock tunnel faces via convolutional neural network approach. <i>Automation in Construction</i> , 2021, 123, 103526.	9.8	38
61	Evaluation of grout behind the lining of shield tunnels using ground-penetrating radar in the Shanghai Metro Line, China. <i>Journal of Geophysics and Engineering</i> , 2007, 4, 253-261.	1.4	37
62	Towards semi-automatic discontinuity characterization in rock tunnel faces using 3D point clouds. <i>Engineering Geology</i> , 2021, 291, 106232.	6.3	36
63	Deep learning-based evaluation of factor of safety with confidence interval for tunnel deformation in spatially variable soil. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 1358-1367.	8.1	36
64	Dynamic response and long-term settlement of a metro tunnel in saturated clay due to moving train load. <i>Soils and Foundations</i> , 2017, 57, 1059-1075.	3.1	35
65	The impact of environmental temperature change on the interior temperature of quasi-sandstone in cold region: Experiment and numerical simulation. <i>Engineering Geology</i> , 2018, 239, 241-253.	6.3	34
66	Deep learning-based instance segmentation of cracks from shield tunnel lining images. <i>Structure and Infrastructure Engineering</i> , 2022, 18, 183-196.	3.7	34
67	Deep learning-based classification and instance segmentation of leakage area and scaling images of shield tunnel linings. <i>Structural Control and Health Monitoring</i> , 2021, 28, e2732.	4.0	34
68	Improved coupled Markov chain method for simulating geological uncertainty. <i>Engineering Geology</i> , 2022, 298, 106539.	6.3	34
69	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.	6.2	33
70	Machine learning-based prediction of soil compression modulus with application of 1D settlement. <i>Journal of Zhejiang University: Science A</i> , 2020, 21, 430-444.	2.4	32
71	Robust retrofitting design for rehabilitation of segmental tunnel linings: Using the example of steel plates. <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 231-242.	6.2	31
72	An optimization strategy to improve the deep learning-based recognition model of leakage in shield tunnels. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2022, 37, 386-402.	9.8	31

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73	Experimental study on the effectiveness of strengthening over-deformed segmental tunnel lining by steel plates. <i>Tunnelling and Underground Space Technology</i> , 2020, 104, 103530.	6.2	30
74	Image-based segmentation and quantification of weak interlayers in rock tunnel face via deep learning. <i>Automation in Construction</i> , 2020, 120, 103371.	9.8	30
75	Adaptive Quadratic Sum-Squares Error for Structural Damage Identification. <i>Journal of Engineering Mechanics - ASCE</i> , 2009, 135, 67-77.	2.9	29
76	Characterization of model uncertainty of adhesively bonded CFRP-to-steel joints. <i>Composite Structures</i> , 2019, 215, 150-165.	5.8	29
77	Meta-modelling of coupled thermo-hydro-mechanical behaviour of hydrate reservoir. <i>Computers and Geotechnics</i> , 2020, 128, 103848.	4.7	29
78	Machine learning-based automatic control of tunneling posture of shield machine. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1153-1164.	8.1	29
79	Inter-region variability of Robertson and Wride method for liquefaction hazard analysis. <i>Engineering Geology</i> , 2016, 203, 191-203.	6.3	28
80	Bayesian network for characterizing model uncertainty of liquefaction potential evaluation models. <i>KSCE Journal of Civil Engineering</i> , 2012, 16, 714-722.	1.9	27
81	Calibrating cross-site variability for reliability-based design of pile foundations. <i>Computers and Geotechnics</i> , 2014, 62, 154-163.	4.7	27
82	Modified analytical solution of shield tunnel lining considering nonlinear bending stiffness of longitudinal joint. <i>Tunnelling and Underground Space Technology</i> , 2020, 106, 103625.	6.2	27
83	Evaluation of generalized linear models for soil liquefaction probability prediction. <i>Environmental Earth Sciences</i> , 2013, 68, 1925-1933.	2.7	25
84	Reliability analysis of slope stability under seismic condition during a given exposure time. <i>Landslides</i> , 2018, 15, 2303-2313.	5.4	25
85	Evaluation of train-induced settlement for metro tunnel in saturated clay based on an elastoplastic constitutive model. <i>Underground Space (China)</i> , 2018, 3, 109-124.	7.5	24
86	Damage identification of substructure for local health monitoring. <i>Smart Structures and Systems</i> , 2008, 4, 795-807.	1.9	24
87	Behaviour of tunnel lining strengthened by textile-reinforced concrete. <i>Structure and Infrastructure Engineering</i> , 2016, 12, 964-976.	3.7	23
88	Theoretical Analysis of the Joint Leakage in Shield Tunnel Considering the Typical Deformation Mode. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	23
89	Theoretical and Experimental Studies on the Signal Propagation in Soil for Wireless Underground Sensor Networks. <i>Sensors</i> , 2020, 20, 2580.	3.8	23
90	Vibration mitigation of stay cable using optimally tuned MR damper. <i>Smart Structures and Systems</i> , 2012, 9, 35-53.	1.9	23

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91	Multi-source data driven method for assessing the rock mass quality of a NATM tunnel face via hybrid ensemble learning models. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 147, 104914.	5.8	22
92	Hybrid machine learning model with random field and limited CPT data to quantify horizontal scale of fluctuation of soil spatial variability. <i>Acta Geotechnica</i> , 2022, 17, 1129-1145.	5.7	22
93	Experimental and numerical study on short eccentric columns strengthened by textile-reinforced concrete under sustaining load. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 1712-1726.	3.1	21
94	A double-weighted vulnerability assessment model for metrorail transit networks and its application in Shanghai metro. <i>International Journal of Critical Infrastructure Protection</i> , 2020, 29, 100358.	4.6	21
95	A Novel Approach to Automated 3D Spalling Defects Inspection in Railway Tunnel Linings Using Laser Intensity and Depth Information. <i>Sensors</i> , 2021, 21, 5725.	3.8	21
96	Resilience-Based Strategies for Topology Enhancement and Recovery of Metrorail Transit Networks. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020, 6, .	1.7	20
97	Spatial-temporal compression and recovery in a wireless sensor network in an underground tunnel environment. <i>Knowledge and Information Systems</i> , 2014, 41, 449-465.	3.2	19
98	Cut-slope versus shallow tunnel: Risk-based decision making framework for alternative selection. <i>Engineering Geology</i> , 2014, 176, 11-23.	6.3	18
99	Improved shield tunnel design methodology incorporating design robustness. <i>Canadian Geotechnical Journal</i> , 2015, 52, 1575-1591.	2.8	18
100	Multivariate probability distribution of Shanghai clay properties. <i>Engineering Geology</i> , 2020, 273, 105675.	6.3	18
101	Probabilistic estimation of ground condition and construction cost for mountain tunnels. <i>Tunnelling and Underground Space Technology</i> , 2014, 42, 175-183.	6.2	17
102	Simplified-robust geotechnical design of soldier pile-anchor tieback shoring system for deep excavation. <i>Marine Georesources and Geotechnology</i> , 2017, 35, 157-169.	2.1	17
103	Geomechanical responses during depressurization of hydrate-bearing sediment formation over a long methane gas production period. <i>Geomechanics for Energy and the Environment</i> , 2020, 23, 100111.	2.5	17
104	Face stability analysis of circular tunnels in layered rock masses using the upper bound theorem. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1836-1848.	8.1	17
105	Risk assessment of rockfall hazards on highways. <i>Georisk</i> , 2009, 3, 147-154.	3.5	16
106	A modified solution of radial subgrade modulus for a circular tunnel in elastic ground. <i>Soils and Foundations</i> , 2014, 54, 225-232.	3.1	16
107	An integrated risk sensing system for geo-structural safety. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2017, 9, 226-238.	8.1	16
108	Characterization of Crack and Leakage Defects of Concrete Linings of Road Tunnels in China. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2018, 4, .	1.7	16

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109	Cracking feature and mechanical behavior of shield tunnel lining simulated by a phase-field modeling method based on spectral decomposition. <i>Tunnelling and Underground Space Technology</i> , 2022, 119, 104246.	6.2	16
110	Quantitative Risk Assessment of Cut-Slope Projects under Construction. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2010, 136, 1644-1654.	3.0	15
111	Back analysis technique for mountain tunneling based on the complex variable solution. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 59, 15-21.	5.8	15
112	Analytical model for tunnel face stability in longitudinally inclined layered rock masses with weak interlayer. <i>Computers and Geotechnics</i> , 2022, 143, 104608.	4.7	15
113	Nonlinear subgrade reaction solution for circular tunnel lining design based on mobilized strength of undrained clay. <i>Canadian Geotechnical Journal</i> , 2018, 55, 155-170.	2.8	14
114	Time-Dependent Fragility Functions for Circular Tunnels in Soft Soils. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.7	14
115	Comparative Performance Test of an Inclinometer Wireless Smart Sensor Prototype for Subway Tunnel. <i>International Journal of Architecture Engineering and Construction</i> , 0, , 25-34.	0.0	13
116	Resilience-Based Design of Infrastructure: Review of Models, Methodologies, and Computational Tools. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.7	13
117	A novel image-based approach for interactive characterization of rock fracture spacing in a tunnel face. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1077-1088.	8.1	13
118	Probabilistic performance assessment of shield tunnels subjected to accidental surcharges. <i>Structure and Infrastructure Engineering</i> , 2019, 15, 1500-1509.	3.7	12
119	Probabilistic characteristics analysis for the time-dependent deformation of clay soils due to spatial variability. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 6096-6114.	2.1	12
120	Unified modeling of the monotonic and cyclic behaviors of sand and clay. <i>Acta Mechanica Solida Sinica</i> , 2015, 28, 111-132.	1.9	11
121	Full-scale experimental verification on the vibration control of stay cable using optimally tuned MR damper. <i>Smart Structures and Systems</i> , 2015, 16, 1003-1021.	1.9	11
122	Adaptive quadratic sum-squares error with unknown inputs for damage identification of structures. <i>Structural Control and Health Monitoring</i> , 2009, 17, n/a-n/a.	4.0	10
123	Role of municipal database in constructing site-specific multivariate probability distribution. <i>Computers and Geotechnics</i> , 2020, 124, 103623.	4.7	10
124	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.	3.5	10
125	Reliability Analysis of Slope Stability Considering Uncertainty in Water Table Level. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2020, 6, .	1.7	10
126	Dynamic response of a stratified transversely isotropic half-space with a poroelastic interlayer due to a buried moving source. <i>Applied Mathematical Modelling</i> , 2020, 82, 45-71.	4.2	10



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127	System reliability analysis of soil slopes through constrained optimization. <i>Landslides</i> , 2021, 18, 655-666.	5.4	10
128	RESEARCHES AND IMPLEMENTATIONS OF STRUCTURAL HEALTH MONITORING SYSTEMS FOR LONG SPAN BRIDGES IN CHINA. <i>Doboku Gakkai Ronbunshuu A</i> , 2009, 65, 15-29.	0.3	9
129	Research on the characteristics of transverse dynamic stiffness of an inclined shallow cable. <i>JVC/Journal of Vibration and Control</i> , 2016, 22, 812-825.	2.6	9
130	Impact of Water Level Rise on Urban Infrastructures: Washington, DC, and Shanghai as Case Studies. <i>Risk Analysis</i> , 2019, 39, 2718-2731.	2.7	9
131	A horizontal convergence monitoring method based on wireless tilt sensors for shield tunnels with straight joints. <i>Structure and Infrastructure Engineering</i> , 2021, 17, 1194-1209.	3.7	9
132	A phase-field modeling method for the mixed-mode fracture of brittle materials based on spectral decomposition. <i>Engineering Fracture Mechanics</i> , 2021, 242, 107473.	4.3	9
133	Simplified algorithm for reliability sensitivity analysis of structures: A spreadsheet implementation. <i>PLoS ONE</i> , 2019, 14, e0213199.	2.5	8
134	Probabilistic modeling of excavation-induced damage depth around rock-excavated tunnels. <i>Results in Engineering</i> , 2020, 5, 100075.	5.1	8
135	Probabilistic Analysis of Tunnel Roof Deflection under Sequential Excavation Using ANN-Based Monte Carlo Simulation and Simplified Reliability Approach. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021, 7, 04021043.	1.7	8
136	Effect of Soil Spatial Variability on Ground Settlement Induced by Shield Tunnelling. , 2017, , .		7
137	Comparison of various structural damage tracking techniques based on experimental data. <i>Smart Structures and Systems</i> , 2010, 6, 1057-1077.	1.9	7
138	Numerical modeling of creep degradation of natural soft clays under one-dimensional condition. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 1668-1678.	1.9	6
139	Centrifuge modelling of shallow and large sectional tunnel under full pipe-jacked ring. <i>Tunnelling and Underground Space Technology</i> , 2019, 89, 189-204.	6.2	6
140	A Swarm Optimization-Enhanced Data Aggregation Tree Based on a Nonuniform Clustering Structure for Long and Linear Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2020, 112, 2285-2295.	2.7	6
141	Effect of Normal Transformation Methods on Performance of Multivariate Normal Distribution. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2022, 8, .	1.7	6
142	A hierarchical DCNN-based approach for classifying imbalanced water inflow in rock tunnel faces. <i>Tunnelling and Underground Space Technology</i> , 2022, 122, 104399.	6.2	6
143	Analysis of cement-treated clay behavior by micromechanical approach. <i>Frontiers of Structural and Civil Engineering</i> , 2013, 7, 137-153.	2.9	5
144	The State of the Art of Risk Management Standards on Tunnels and Underground Works in China. , 2014, , .		5

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145	Temporal Data-Driven Sleep Scheduling and Spatial Data-Driven Anomaly Detection for Clustered Wireless Sensor Networks. <i>Sensors</i> , 2016, 16, 1601.	3.8	5
146	Enhancing Civil Infrastructure Resilience with Structural Health Monitoring. , 2018, , .		5
147	Importance sampling for system reliability analysis of soil slopes based on shear strength reduction. <i>Georisk</i> , 2020, , 1-12.	3.5	5
148	Deformation recoverability of longitudinal joints in segmental tunnel linings: An experimental study. <i>Tunnelling and Underground Space Technology</i> , 2022, 124, 104475.	6.2	5
149	Risk Analysis of Building Structure Due to Shield Tunneling in Urban Area. , 2006, , 150.		4
150	Substructure damage identification using damage tracking technique. , 2007, , .		4
151	Robust Geotechnical Design of Shield-Driven Tunnels Using Fuzzy Sets. , 2014, , .		4
152	Assessing the Performance of Shield Tunnels Due to Corrosion Using Bayesian MCMC. , 2017, , .		4
153	A discussion of "a simplified prediction method for evaluating tunnel displacement induced by laterally adjacent excavations" by Zheng et al. (2018). <i>Computers and Geotechnics</i> , 2019, 109, 293-296.	4.7	4
154	On-line damage identification of nonlinear structures. , 2005, 5765, 731.		3
155	Damage tracking of base-isolated building using sequential nonlinear LSE with unknown inputs and outputs. , 2006, , .		3
156	Tunnel Fire Staff Evacuation Channel Distance Design Based on EXODUS. , 2009, , .		3
157	A fuzzy comprehensive evaluation system of mountain tunnel lining based on the fast nondestructive inspection. , 2011, , .		3
158	Global Parametric Identification of a Cable-Stayed Bridge Model under Vertical Excitations Using SNLSE Approach. <i>Advances in Structural Engineering</i> , 2015, 18, 381-393.	2.4	3
159	Investigating the Effect of Geological Heterogeneity of Strata on the Bearing Capacity of Shallow Foundations Using Markov Random Field. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part A: Civil Engineering</i> , 2021, 7, .	1.7	3
160	Fire Evacuation Underground Space Based on Building EXODUS. , 2009, , .		2
161	Fire Evacuation of Underground Tunnel Based Building EXODUS. , 2009, , .		2
162	Examination of Multivariate Dependency Structure in Soil Parameters. , 2012, , .		2

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163	Resilience Analysis of Metro Networks: A Case Study of Shanghai Metro Network. , 2017, , .		2
164	Post-Failure Recovery Strategies for Metrorail Transit Networks With Washington D.C. As a Case Study. , 2018, , .		2
165	Parametric identification of a cable-stayed bridge using least square estimation with substructure approach. Smart Structures and Systems, 2015, 15, 425-445.	1.9	2
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