Zhi-Feng Wang

List of Publications by Year
in descending order

71 papers	5,989 citations	71004 43 h-index	104191 69 g-index
71 all docs	71 docs citations	71 times ranked	2412 citing authors

#	Article	IF	Citations
1	Structural failures and geohazards caused by mountain tunnel construction in fault zone and its treatment measures: A case study in Shaanxi. Engineering Failure Analysis, 2022, 138, 106386.	1.8	17
2	Investigation of Coal Preparation for Life Cycle by Using Building Information Modeling (BIM): A Case Study. Geofluids, 2022, 2022, 1-13.	0.3	0
3	Predicting jet-grout column diameter to mitigate the environmental impact using an artificial intelligence algorithm. Underground Space (China), 2021, 6, 267-280.	3.4	13
4	Dynamic prediction of jet grouted column diameter in soft soil using Bi-LSTM deep learning. Acta Geotechnica, 2021, 16, 303-315.	2.9	99
5	Field Investigation of Blasting-Induced Vibration in Concrete Linings during Expansion of Old Highway Tunnel. Advances in Civil Engineering, 2021, 2021, 1-11.	0.4	2
6	Artificial neural network optimized by differential evolution for predicting diameters of jet grouted columns. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 1500-1512.	3.7	38
7	Evaluation of soil liquefaction using AI technology incorporating a coupled ENN / t-SNE model. Soil Dynamics and Earthquake Engineering, 2020, 130, 105988.	1.9	77
8	Evaluation of Ground Displacements Caused by Installing Jet Grouted Columns Using Machine Learning Methods. Advances in Civil Engineering, 2020, 2020, 1-11.	0.4	1
9	Calculation of pressure on the shallow-buried twin-tunnel in layered strata. Tunnelling and Underground Space Technology, 2020, 103, 103465.	3.0	43
10	Excess pore water pressure caused by the installation of jet grouting columns in clay. Computers and Geotechnics, 2020, 125, 103667.	2.3	63
11	Prediction Model of Shield Performance During Tunneling via Incorporating Improved Particle Swarm Optimization Into ANFIS. IEEE Access, 2020, 8, 39659-39671.	2.6	92
12	Analyses of leakage effect of waterproof curtain during excavation dewatering. Journal of Hydrology, 2020, 583, 124582.	2.3	96
13	Three-dimensional numerical modelling on localised leakage in segmental lining of shield tunnels. Computers and Geotechnics, 2020, 122, 103549.	2.3	137
14	Real-Time Dynamic Earth-Pressure Regulation Model for Shield Tunneling by Integrating GRU Deep Learning Method With GA Optimization. IEEE Access, 2020, 8, 64310-64323.	2.6	52
15	Quantitative Evaluation of Ground Movements Caused by Grouting during Shield Tunnelling in Clay. Advances in Civil Engineering, 2019, 2019, 1-7.	0.4	1
16	Land Subsidence Control Zone and Policy for the Environmental Protection of Shanghai. International Journal of Environmental Research and Public Health, 2019, 16, 2729.	1.2	25
17	Prediction of Landslide Position of Loose Rock Mass at Mountain Tunnel Exit. Advances in Civil Engineering, 2019, 2019, 1-9.	0.4	2
18	Dewateringâ€"Induced Building Settlement around a Deep Excavation in Soft Deposit in Tianjin, China. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2019, 145, .	1.5	112

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19	Enhancing discharge of spoil to mitigate disturbance induced by horizontal jet grouting in clayey soil: Theoretical model and application. Computers and Geotechnics, 2019, 111, 222-228.	2.3	103
20	Field monitoring on deformation of high rock slope during highway construction: A case study in Wenzhou, China. International Journal of Distributed Sensor Networks, 2019, 15, 155014771989595.	1.3	15
21	A review on land subsidence caused by groundwater withdrawal in Xiâ€™an, China. Bulletin of Engineering Geology and the Environment, 2019, 78, 2851-2863.	1.6	68
22	Flood risk assessment in metro systems of mega-cities using a GIS-based modeling approach. Science of the Total Environment, 2018, 626, 1012-1025.	3.9	287
23	Investigation into geohazards during urbanization process of Xiâ€™an, China. Natural Hazards, 2018, 92, 1937-1953.	1.6	64
24	Analytical approach for timeâ€dependent groundwater inflow into shield tunnel face in confined aquifer. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 655-673.	1.7	94
25	Evaluation of ground loss ratio with moving trajectories induced in double-O-tube (DOT) tunnelling. Canadian Geotechnical Journal, 2018, 55, 894-902.	1.4	75
26	Effect of Expanding a Rectangular Tunnel on Adjacent Structures. Advances in Civil Engineering, 2018, 2018, 1-13.	0.4	5
27	Simple Method to Predict Settlement of Composite Foundation under Embankment. International Journal of Geomechanics, 2018, 18, .	1.3	21
28	Simple Method to Predict Ground Displacements Caused by Installing Horizontal Jet-Grouting Columns. Mathematical Problems in Engineering, 2018, 2018, 1-11.	0.6	42
29	Shield tunnel uplift and deformation characterisation: A case study from Zhengzhou metro. Tunnelling and Underground Space Technology, 2018, 79, 83-95.	3.0	72
30	Modeling of Permeation and Fracturing Grouting in Sand: Laboratory Investigations. Journal of Testing and Evaluation, 2018, 46, 2067-2082.	0.4	37
31	Compression and strength behavior of cementâ€“limeâ€“polymer-solidified dredged material at high water content. Marine Georesources and Geotechnology, 2017, 35, 840-846.	1.2	20
32	Effect of Super-Absorbent Polymer on the Undrained Shear Behavior of Cemented Dredged Clay with High Water Content. Journal of Materials in Civil Engineering, 2017, 29, .	1.3	26
33	Numerical approach to predict ground displacement caused by installing a horizontal jet grout column. Marine Georesources and Geotechnology, 2017, 35, 970-977.	1.2	20
34	Calculation of head difference at two sides of a cut-off barrier during excavation dewatering. Computers and Geotechnics, 2017, 91, 192-202.	2.3	136
35	Identification of Tunnel Settlement Caused by Land Subsidence in Soft Deposit of Shanghai. Journal of Performance of Constructed Facilities, 2017, 31, .	1.0	139
36	Tornado hazards on June 23 in Jiangsu Province, China: preliminary investigation and analysis. Natural Hazards, 2017, 85, 597-604.	1.6	59

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37	Geotechnical characteristics of weathered granitic gneiss with geo-hazards investigation of pit excavation in Guangzhou, China. Bulletin of Engineering Geology and the Environment, 2017, 76, 681-694.	1.6	9
38	Experimental and Analytical Modeling of Shield Segment under Cyclic Loading. International Journal of Geomechanics, 2017, 17, .	1.3	70
39	Strength of cement-stabilised clay by hardness testing. Proceedings of Institution of Civil Engineers: Construction Materials, 2017, 170, 250-257.	0.7	3
40	Characteristics of dewatering induced drawdown curve under blocking effect of retaining wall in aquifer. Journal of Hydrology, 2016, 539, 554-566.	2.3	161
41	Compressibility of cemented dredged clay at high water content with super-absorbent polymer. Engineering Geology, 2016, 208, 198-205.	2.9	63
42	Automatic pressure-control equipment for horizontal jet-grouting. Automation in Construction, 2016, 69, 11-20.	4.8	20
43	Geological formation and geo-hazards during subway construction in Guangzhou. Environmental Earth Sciences, 2016, 75, 1.	1.3	56
44	Ground fissures in Xiâ€™an and measures to prevent damage to the Metro tunnel system due to geohazards. Environmental Earth Sciences, 2016, 75, 1.	1.3	41
45	Ground Response to Multiple Parallel Microtunneling Operations in Cemented Silty Clay and Sand. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2016, 142, .	1.5	145
46	Pore pressures induced by piezocone penetration. Canadian Geotechnical Journal, 2016, 53, 540-550.	1.4	10
47	Rapid field evaluation of the strength of cement-stabilized clayey soil. Bulletin of Engineering Geology and the Environment, 2015, 74, 991-999.	1.6	24
48	Longitudinal structural modelling of shield tunnels considering shearing dislocation between segmental rings. Tunnelling and Underground Space Technology, 2015, 50, 317-323.	3.0	260
49	Evaluation of hydraulic conductivity for both marine and deltaic deposits based on piezocone testing. Ocean Engineering, 2015, 110, 174-182.	1.9	104
50	Current State of the Art in Jet Grouting for Stabilizing Soft Soil. , 2014, , .		6
51	Evaluation of the blocking effect of retaining walls on groundwater seepage in aquifers with different insertion depths. Engineering Geology, 2014, 183, 254-264.	2.9	118
52	Evaluation of the hydraulic conductivity of aquifers with piles. Hydrogeology Journal, 2014, 22, 371-382.	0.9	70
53	Cone penetration-induced pore pressure distribution and dissipation. Computers and Geotechnics, 2014, 57, 105-113.	2.3	18
54	Long-term settlement behaviour of metro tunnels in the soft deposits of Shanghai. Tunnelling and Underground Space Technology, 2014, 40, 309-323.	3.0	484

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55	Jet grouting for mitigation of installation disturbance. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2014, 167, 526-536.	0.9	42
56	Leaking behavior of shield tunnels under the Huangpu River of Shanghai with induced hazards. Natural Hazards, 2014, 70, 1115-1132.	1.6	120
57	Evaluation of allowable withdrawn volume of groundwater based on observed data. Natural Hazards, 2013, 67, 513-522.	1.6	35
58	Modelling the cutoff behavior of underground structure in multi-aquifer-aquitard groundwater system. Natural Hazards, 2013, 66, 731-748.	1.6	84
59	Investigation of field-installation effects of horizontal twin-jet grouting in Shanghai soft soil deposits. Canadian Geotechnical Journal, 2013, 50, 288-297.	1.4	127
60	Generalized Approach for Prediction of Jet Grout Column Diameter. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2060-2069.	1.5	236
61	A field trial of horizontal jet grouting using the composite-pipe method in the soft deposits of Shanghai. Tunnelling and Underground Space Technology, 2013, 35, 142-151.	3.0	129
62	Jet grouting with a newly developed technology: The Twin-Jet method. Engineering Geology, 2013, 152, 87-95.	2.9	167
63	Interpretation of increased deformation rate in aquifer IV due to groundwater pumping in Shanghai. Canadian Geotechnical Journal, 2013, 50, 1129-1142.	1.4	144
64	Analysis of urbanisation-induced land subsidence in Shanghai. Natural Hazards, 2012, 63, 1255-1267.	1.6	134
65	Evaluation of land subsidence by considering underground structures that penetrate the aquifers of Shanghai, China. Hydrogeology Journal, 2012, 20, 1623-1634.	0.9	107
66	Experimental investigation of influence of acid rain on leaching and hydraulic characteristics of cement-based solidified/stabilized lead contaminated clay. Journal of Hazardous Materials, 2012, 225-226, 195-201.	6.5	130
67	Numerical evaluation of land subsidence induced by groundwater pumping in Shanghai. Canadian Geotechnical Journal, 2011, 48, 1378-1392.	1.4	318
68	The state of land subsidence and prediction approaches due to groundwater withdrawal in China. Natural Hazards, 2008, 45, 123-135.	1.6	146
69	Deep Mixing Induced Property Changes in Surrounding Sensitive Marine Clays. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2008, 134, 845-854.	1.5	136
70	Estimation of Land Subsidence Based on Groundwater Flow Model. Marine Georesources and Geotechnology, 2006, 24, 149-167.	1.2	45
71	Interaction mechanism between deep mixing column and surrounding clay during installation. Canadian Geotechnical Journal, 2003, 40, 293-307.	1.4	74