

Shui-Long Shen

List of Publications by Year in descending order

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331
papers

17,269
citations

8755

75
h-index

22832

112
g-index

345
all docs

345
docs citations

345
times ranked

5870
citing authors

#	ARTICLE	IF	CITATIONS
1	Long-term settlement behaviour of metro tunnels in the soft deposits of Shanghai. Tunnelling and Underground Space Technology, 2014, 40, 309-323.	6.2	484
2	Numerical evaluation of land subsidence induced by groundwater pumping in Shanghai. Canadian Geotechnical Journal, 2011, 48, 1378-1392.	2.8	318
3	Strength development in clay-fly ash geopolymer. Construction and Building Materials, 2013, 40, 566-574.	7.2	300
4	Flood risk assessment in metro systems of mega-cities using a GIS-based modeling approach. Science of the Total Environment, 2018, 626, 1012-1025.	8.0	287
5	Longitudinal structural modelling of shield tunnels considering shearing dislocation between segmental rings. Tunnelling and Underground Space Technology, 2015, 50, 317-323.	6.2	260
6	Generalized Approach for Prediction of Jet Grout Column Diameter. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2013, 139, 2060-2069.	3.0	236
7	Optimization techniques for identifying soil parameters in geotechnical engineering: Comparative study and enhancement. International Journal for Numerical and Analytical Methods in Geomechanics, 2018, 42, 70-94.	3.3	216
8	High calcium fly ash geopolymer stabilized lateritic soil and granulated blast furnace slag blends as a pavement base material. Journal of Hazardous Materials, 2018, 341, 257-267.	12.4	215
9	Perspectives for flood risk assessment and management for mega-city metro system. Tunnelling and Underground Space Technology, 2019, 84, 31-44.	6.2	207
10	Estimation of lateral displacement induced by jet grouting in clayey soils. Geotechnique, 2017, 67, 621-630.	4.0	197
11	Land subsidence due to groundwater drawdown in Shanghai. Geotechnique, 2004, 54, 143-147.	4.0	194
12	Inundation risk assessment of metro system using AHP and TFN-AHP in Shenzhen. Sustainable Cities and Society, 2020, 56, 102103.	10.4	194
13	Risk Assessment Using a New Consulting Process in Fuzzy AHP. Journal of Construction Engineering and Management - ASCE, 2020, 146, .	3.8	180
14	Factors influencing strength development in clay-fly ash geopolymer. Construction and Building Materials, 2013, 47, 1125-1136.	7.2	169
15	Jet grouting with a newly developed technology: The Twin-Jet method. Engineering Geology, 2013, 152, 87-95.	6.3	167
16	Assessment and management of lake eutrophication: A case study in Lake Erhai, China. Science of the Total Environment, 2021, 751, 141618.	8.0	167
17	Characteristics of dewatering induced drawdown curve under blocking effect of retaining wall in aquifer. Journal of Hydrology, 2016, 539, 554-566.	5.4	161
18	Simple Method of Modeling PVD-Improved Subsoil. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2001, 127, 965-972.	3.0	160

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19	Geological and hydrogeological environment in Shanghai with geohazards to construction and maintenance of infrastructures. <i>Engineering Geology</i> , 2009, 109, 241-254.	6.3	156
20	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
21	Soil-tunnel interaction modelling for shield tunnels considering shearing dislocation in longitudinal joints. <i>Tunnelling and Underground Space Technology</i> , 2018, 78, 168-177.	6.2	155
22	Analysis of shearing effect on tunnel induced by load transfer along longitudinal direction. <i>Tunnelling and Underground Space Technology</i> , 2008, 23, 421-430.	6.2	153
23	Analysis of field performance of embankments on soft clay deposit with and without PVD-improvement. <i>Geotextiles and Geomembranes</i> , 2005, 23, 463-485.	4.6	148
24	The state of land subsidence and prediction approaches due to groundwater withdrawal in China. <i>Natural Hazards</i> , 2008, 45, 123-135.	3.4	146
25	Ground Response to Multiple Parallel Microtunneling Operations in Cemented Silty Clay and Sand. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2016, 142, .	3.0	145
26	Interpretation of increased deformation rate in aquifer IV due to groundwater pumping in Shanghai. <i>Canadian Geotechnical Journal</i> , 2013, 50, 1129-1142.	2.8	144
27	Laboratory evaluation on the effectiveness of polypropylene fibers on the strength of fiber-reinforced and cement-stabilized Shanghai soft clay. <i>Geotextiles and Geomembranes</i> , 2015, 43, 515-523.	4.6	144
28	Stabilisation of marginal lateritic soil using high calcium fly ash-based geopolymer. <i>Road Materials and Pavement Design</i> , 2016, 17, 877-891.	4.0	144
29	Identification of Tunnel Settlement Caused by Land Subsidence in Soft Deposit of Shanghai. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	2.0	139
30	Three-dimensional numerical modelling on localised leakage in segmental lining of shield tunnels. <i>Computers and Geotechnics</i> , 2020, 122, 103549.	4.7	137
31	Deep Mixing Induced Property Changes in Surrounding Sensitive Marine Clays. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2008, 134, 845-854.	3.0	136
32	Calculation of head difference at two sides of a cut-off barrier during excavation dewatering. <i>Computers and Geotechnics</i> , 2017, 91, 192-202.	4.7	136
33	Analysis of urbanisation-induced land subsidence in Shanghai. <i>Natural Hazards</i> , 2012, 63, 1255-1267.	3.4	134
34	Experimental investigation of influence of acid rain on leaching and hydraulic characteristics of cement-based solidified/stabilized lead contaminated clay. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 195-201.	12.4	130
35	A field trial of horizontal jet grouting using the composite-pipe method in the soft deposits of Shanghai. <i>Tunnelling and Underground Space Technology</i> , 2013, 35, 142-151.	6.2	129
36	Investigation of field-installation effects of horizontal twin-jet grouting in Shanghai soft soil deposits. <i>Canadian Geotechnical Journal</i> , 2013, 50, 288-297.	2.8	127

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37	Prediction of Disc Cutter Life During Shield Tunneling with AI via the Incorporation of a Genetic Algorithm into a GMDH-Type Neural Network. <i>Engineering</i> , 2021, 7, 238-251.	6.7	126
38	Analysis of Factors in Land Subsidence in Shanghai: A View Based on a Strategic Environmental Assessment. <i>Sustainability</i> , 2016, 8, 573.	3.2	124
39	Risk assessment of mega-city infrastructures related to land subsidence using improved trapezoidal FAHP. <i>Science of the Total Environment</i> , 2020, 717, 135310.	8.0	124
40	Leaking behavior of shield tunnels under the Huangpu River of Shanghai with induced hazards. <i>Natural Hazards</i> , 2014, 70, 1115-1132.	3.4	120
41	Improved prediction of slope stability using a hybrid stacking ensemble method based on finite element analysis and field data. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 188-201.	8.1	119
42	Evaluation of the blocking effect of retaining walls on groundwater seepage in aquifers with different insertion depths. <i>Engineering Geology</i> , 2014, 183, 254-264.	6.3	118
43	Risk assessment and management of excavation system based on fuzzy set theory and machine learning methods. <i>Automation in Construction</i> , 2021, 122, 103490.	9.8	117
44	Chinese karst geology and measures to prevent geohazards during shield tunnelling in karst region with caves. <i>Natural Hazards</i> , 2015, 77, 129-152.	3.4	116
45	Selection of sand models and identification of parameters using an enhanced genetic algorithm. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 1219-1240.	3.3	116
46	Dewatering-Induced Building Settlement around a Deep Excavation in Soft Deposit in Tianjin, China. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2019, 145, .	3.0	112
47	Assessment of Geohazards and Preventative Countermeasures Using AHP Incorporated with GIS in Lanzhou, China. <i>Sustainability</i> , 2018, 10, 304.	3.2	109
48	Evaluation of hydraulic parameters from pumping tests in multi-aquifers with vertical leakage in Tianjin. <i>Computers and Geotechnics</i> , 2015, 68, 196-207.	4.7	108
49	Evaluation of land subsidence by considering underground structures that penetrate the aquifers of Shanghai, China. <i>Hydrogeology Journal</i> , 2012, 20, 1623-1634.	2.1	107
50	Flood risk assessment of metro systems in a subsiding environment using the interval FAHP-FCA approach. <i>Sustainable Cities and Society</i> , 2019, 50, 101682.	10.4	107
51	Characteristics of groundwater seepage with cut-off wall in gravel aquifer. I: Field observations. <i>Canadian Geotechnical Journal</i> , 2015, 52, 1526-1538.	2.8	105
52	Evaluation of hydraulic conductivity for both marine and deltaic deposits based on piezocone testing. <i>Ocean Engineering</i> , 2015, 110, 174-182.	4.3	104
53	Enhancing discharge of spoil to mitigate disturbance induced by horizontal jet grouting in clayey soil: Theoretical model and application. <i>Computers and Geotechnics</i> , 2019, 111, 222-228.	4.7	103
54	Evaluation of the Strength Increase of Marine Clay under Staged Embankment Loading: A Case Study. <i>Marine Georesources and Geotechnology</i> , 2015, 33, 532-541.	2.1	101

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55	Characteristics of groundwater seepage with cut-off wall in gravel aquifer. II: Numerical analysis. Canadian Geotechnical Journal, 2015, 52, 1539-1549.	2.8	99
56	Dynamic prediction of jet grouted column diameter in soft soil using Bi-LSTM deep learning. Acta Geotechnica, 2021, 16, 303-315.	5.7	99
57	Inundation analysis of metro systems with the storm water management model incorporated into a geographical information system: a case study in Shanghai. Hydrology and Earth System Sciences, 2019, 23, 4293-4307.	4.9	98
58	Analyses of leakage effect of waterproof curtain during excavation dewatering. Journal of Hydrology, 2020, 583, 124582.	5.4	96
59	Semi-analytical solution to pumping test data with barrier, wellbore storage, and partial penetration effects. Engineering Geology, 2017, 226, 44-51.	6.3	94
60	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.	3.3	94
61	Prediction Model of TBM Disc Cutter Wear During Tunnelling in Heterogeneous Ground. Rock Mechanics and Rock Engineering, 2018, 51, 3599-3611.	5.4	94
62	Evaluation of effect of basal geotextile reinforcement under embankment loading on soft marine deposits. Geotextiles and Geomembranes, 2015, 43, 506-514.	4.6	93
63	Design of sponge city: Lessons learnt from an ancient drainage system in Ganzhou, China. Journal of Hydrology, 2018, 563, 900-908.	5.4	92
64	Prediction Model of Shield Performance During Tunneling via Incorporating Improved Particle Swarm Optimization Into ANFIS. IEEE Access, 2020, 8, 39659-39671.	4.2	92
65	Marginal Lateritic Soil Stabilized with Calcium Carbide Residue and Fly Ash Geopolymers as a Sustainable Pavement Base Material. Journal of Materials in Civil Engineering, 2017, 29, .	2.9	88
66	Strength assessment of spent coffee grounds-geopolymer cement utilizing slag and fly ash precursors. Construction and Building Materials, 2016, 115, 565-575.	7.2	86
67	Application of LSTM approach for modelling stressâ€strain behaviour of soil. Applied Soft Computing Journal, 2021, 100, 106959.	7.2	86
68	Engineering properties of recycled Calcium Carbide Residue stabilized clay as fill and pavement materials. Construction and Building Materials, 2013, 46, 203-210.	7.2	85
69	Experimental investigation on the blocking of groundwater seepage from a waterproof curtain during pumped dewatering in an excavation. Hydrogeology Journal, 2019, 27, 2659-2672.	2.1	85
70	Modelling the cutoff behavior of underground structure in multi-aquifer-aquitard groundwater system. Natural Hazards, 2013, 66, 731-748.	3.4	84
71	Estimation of critical state-related formula in advanced constitutive modeling of granular material. Acta Geotechnica, 2017, 12, 1329-1351.	5.7	84
72	Approach based on TOPSIS and Monte Carlo simulation methods to evaluate lake eutrophication levels. Water Research, 2020, 187, 116437.	11.3	82

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73	Performance of embankments with and without reinforcement on soft subsoil. Canadian Geotechnical Journal, 2002, 39, 838-848.	2.8	81
74	Vacuum-drain consolidation induced pressure distribution and ground deformation. Geotextiles and Geomembranes, 2010, 28, 525-535.	4.6	81
75	Optimization of EPB Shield Performance with Adaptive Neuro-Fuzzy Inference System and Genetic Algorithm. Applied Sciences (Switzerland), 2019, 9, 780.	2.5	80
76	Investigation into factors affecting jacking force: a case study. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2017, 170, 322-334.	1.6	77
77	Evaluation of soil liquefaction using AI technology incorporating a coupled ENN / t-SNE model. Soil Dynamics and Earthquake Engineering, 2020, 130, 105988.	3.8	77
78	Evolutionary hybrid neural network approach to predict shield tunneling-induced ground settlements. Tunnelling and Underground Space Technology, 2020, 106, 103594.	6.2	77
79	Tunneling induced geohazards in mylonitic rock faults with rich groundwater: A case study in Guangzhou. Tunnelling and Underground Space Technology, 2018, 74, 262-272.	6.2	76
80	Analysis and GIS Mapping of Flooding Hazards on 10 May 2016, Guangzhou, China. Water (Switzerland), 2016, 8, 447.	2.7	75
81	Nonlinearity of one-dimensional creep characteristics of soft clays. Acta Geotechnica, 2016, 11, 887-900.	5.7	75
82	Evaluation of ground loss ratio with moving trajectories induced in double-O-tube (DOT) tunnelling. Canadian Geotechnical Journal, 2018, 55, 894-902.	2.8	75
83	Evaluation of optimized depth of waterproof curtain to mitigate negative impacts during dewatering. Journal of Hydrology, 2019, 577, 123969.	5.4	75
84	Interaction mechanism between deep mixing column and surrounding clay during installation. Canadian Geotechnical Journal, 2003, 40, 293-307.	2.8	74
85	Investigation into MOGA for identifying parameters of a critical-state-based sand model and parameters correlation by factor analysis. Acta Geotechnica, 2016, 11, 1131-1145.	5.7	74
86	Evaluation of the hydraulic conductivity of aquifers with piles. Hydrogeology Journal, 2014, 22, 371-382.	2.1	70
87	Experimental and Analytical Modeling of Shield Segment under Cyclic Loading. International Journal of Geomechanics, 2017, 17, .	2.7	70
88	Estimation of Bearing Capacity of Piles in Cohesionless Soil Using Optimised Machine Learning Approaches. Geotechnical and Geological Engineering, 2020, 38, 2271-2291.	1.7	70
89	Numerical investigation of the failure of a building in Shanghai, China. Computers and Geotechnics, 2014, 55, 482-493.	4.7	69
90	Centrifuge investigation into the effect of new shield tunnelling on an existing underlying large-diameter tunnel. Tunnelling and Underground Space Technology, 2014, 42, 59-66.	6.2	69

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91	Durability against wetting“drying cycles of sustainable Lightweight Cellular Cemented construction material comprising clay and fly ash wastes. Construction and Building Materials, 2015, 77, 41-49.	7.2	68
92	Consolidation analysis of clayey deposits under vacuum pressure with horizontal drains. Geotextiles and Geomembranes, 2014, 42, 437-444.	4.6	67
93	New Policy and Implementation of Municipal Solid Waste Classification in Shanghai, China. International Journal of Environmental Research and Public Health, 2019, 16, 3099.	2.6	65
94	A new hybrid real-coded genetic algorithm and its application to parameters identification of soils. Inverse Problems in Science and Engineering, 2017, 25, 1343-1366.	1.2	63
95	Excess pore water pressure caused by the installation of jet grouting columns in clay. Computers and Geotechnics, 2020, 125, 103667.	4.7	63
96	Sustainable development and environmental restoration in Lake Erhai, China. Journal of Cleaner Production, 2020, 258, 120758.	9.3	61
97	Environmental protection using dewatering technology in a deep confined aquifer beneath a shallow aquifer. Engineering Geology, 2015, 196, 59-70.	6.3	60
98	Compressive strength and microstructural properties of spent coffee grounds-bagasse ash based geopolymers with slag supplements. Journal of Cleaner Production, 2017, 162, 1491-1501.	9.3	60
99	A three-dimensional fluid-solid coupled numerical modeling of the barrier leakage below the excavation surface due to dewatering. Hydrogeology Journal, 2020, 28, 1449-1463.	2.1	60
100	Tornado hazards on June 23 in Jiangsu Province, China: preliminary investigation and analysis. Natural Hazards, 2017, 85, 597-604.	3.4	59
101	Modelling the performance of EPB shield tunnelling using machine and deep learning algorithms. Geoscience Frontiers, 2021, 12, 101177.	8.4	59
102	Evaluation of the effect of rolling correction of double-o-tunnel shields via one-side loading. Canadian Geotechnical Journal, 2010, 47, 1060-1070.	2.8	58
103	Geological and hydrogeological environment in Tianjin with potential geohazards and groundwater control during excavation. Environmental Earth Sciences, 2018, 77, 1.	2.7	57
104	Real-time prediction of shield moving trajectory during tunnelling. Acta Geotechnica, 2022, 17, 1533-1549.	5.7	57
105	Field performance of concrete pipes during jacking in cemented sandy silt. Tunnelling and Underground Space Technology, 2015, 49, 336-344.	6.2	56
106	Mitigation of geohazards during deep excavations in karst regions with caverns: A case study. Engineering Geology, 2015, 195, 16-27.	6.3	56
107	Lessons learnt from unusual ground settlement during Double-O-Tube tunnelling in soft ground. Tunnelling and Underground Space Technology, 2015, 49, 79-91.	6.2	56
108	Geological formation and geo-hazards during subway construction in Guangzhou. Environmental Earth Sciences, 2016, 75, 1.	2.7	56

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109	Calculation of groundwater head distribution with a close barrier during excavation dewatering in confined aquifer. <i>Geoscience Frontiers</i> , 2021, 12, 791-803.	8.4	56
110	Timoshenko beam solution for the response of existing tunnels because of tunneling underneath. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2016, 40, 766-784.	3.3	55
111	Deep learning analysis for energy consumption of shield tunneling machine drive system. <i>Tunnelling and Underground Space Technology</i> , 2022, 123, 104405.	6.2	55
112	Contaminant mitigating performance of Chinese standard municipal solid waste landfill liner systems. <i>Geotextiles and Geomembranes</i> , 2009, 27, 232-239.	4.6	54
113	Analysis of the behavior of DOT tunnel lining caused by rolling correction operation. <i>Tunnelling and Underground Space Technology</i> , 2009, 24, 84-90.	6.2	54
114	Evaluation of foam conditioning effect on groundwater inflow at tunnel cutting face. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 463-481.	3.3	53
115	Effect of fine content on the pullout resistance mechanism of bearing reinforcement embedded in cohesive-frictional soils. <i>Geotextiles and Geomembranes</i> , 2015, 43, 107-117.	4.6	52
116	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
117	Predicting the performance of embankments on PVD-improved subsoils. <i>Computers and Geotechnics</i> , 2018, 93, 222-231.	4.7	52
118	Real-Time Dynamic Earth-Pressure Regulation Model for Shield Tunneling by Integrating GRU Deep Learning Method With GA Optimization. <i>IEEE Access</i> , 2020, 8, 64310-64323.	4.2	52
119	Novel model for risk identification during karst excavation. <i>Reliability Engineering and System Safety</i> , 2021, 209, 107435.	8.9	52
120	Risk and impacts on the environment of free-phase biogas in quaternary deposits along the Coastal Region of Shanghai. <i>Ocean Engineering</i> , 2017, 137, 129-137.	4.3	51
121	Measurement and prediction of tunnelling-induced ground settlement in karst region by using expanding deep learning method. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 183, 109700.	5.0	51
122	Indices and models of surface water quality assessment: Review and perspectives. <i>Environmental Pollution</i> , 2022, 308, 119611.	7.5	51
123	Behaviour of a PVD unit cell under vacuum pressure and a new method for consolidation analysis. <i>Computers and Geotechnics</i> , 2020, 120, 103415.	4.7	50
124	Prediction of geological characteristics from shield operational parameters by integrating grid search and K-fold cross validation into stacking classification algorithm. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1292-1303.	8.1	50
125	Investigation into performance of deep excavation in sand covered karst: A case report. <i>Soils and Foundations</i> , 2018, 58, 1042-1058.	3.1	49
126	Investigation on Performance of Neural Networks Using Quadratic Relative Error Cost Function. <i>IEEE Access</i> , 2019, 7, 106642-106652.	4.2	49

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127	Comparison in Undrained Shear Strength between Undisturbed and Remolded Ariake Clays. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2006, 132, 272-275.	3.0	48
128	Enhancement of neural networks with an alternative activation function tanhLU. Expert Systems With Applications, 2022, 199, 117181.	7.6	48
129	Cutter-disc consumption during earth pressure balance tunnelling in mixed strata. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2018, 171, 363-376.	1.6	47
130	Risk assessment of geohazards along Cheng-Kun railway using fuzzy AHP incorporated into GIS. Geomatics, Natural Hazards and Risk, 2021, 12, 1508-1531.	4.3	47
131	Investigation into subsidence hazards due to groundwater pumping from Aquifer II in Changzhou, China. Natural Hazards, 2015, 78, 281-296.	3.4	46
132	Analysis of disc cutter failure in shield tunnelling using 3D circular cutting theory. Engineering Failure Analysis, 2018, 90, 23-35.	4.0	46
133	Estimation of Land Subsidence Based on Groundwater Flow Model. Marine Georesources and Geotechnology, 2006, 24, 149-167.	2.1	45
134	Enhancing behavior of large volume underground concrete structure using expansive agents. Construction and Building Materials, 2016, 114, 49-55.	7.2	45
135	Risk Assessment of Earthquake-Triggered Geohazards Surrounding Wenchuan, China. Natural Hazards Review, 2020, 21, .	1.5	44
136	Material properties of the seal gasket for shield tunnels: A review. Construction and Building Materials, 2018, 191, 877-890.	7.2	43
137	The use of tunnelling parameters and spoil characteristics to assess soil types: a case study from alluvial deposits at a pipejacking project site. Bulletin of Engineering Geology and the Environment, 2019, 78, 2933-2942.	3.5	43
138	Calculation of pressure on the shallow-buried twin-tunnel in layered strata. Tunnelling and Underground Space Technology, 2020, 103, 103465.	6.2	43
139	Optimum model for bearing capacity of concrete-steel columns with AI technology via incorporating the algorithms of IWO and ABC. Engineering With Computers, 2021, 37, 797-807.	6.1	43
140	Automatic control of groundwater balance to combat dewatering during construction of a metro system. Automation in Construction, 2021, 123, 103536.	9.8	43
141	Jet grouting for mitigation of installation disturbance. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2014, 167, 526-536.	1.6	42
142	Simple Method to Predict Ground Displacements Caused by Installing Horizontal Jet-Grouting Columns. Mathematical Problems in Engineering, 2018, 2018, 1-11.	1.1	42
143	Time-series prediction of shield movement performance during tunneling based on hybrid model. Tunnelling and Underground Space Technology, 2022, 119, 104245.	6.2	42
144	Ground fissures in Xi'an and measures to prevent damage to the Metro tunnel system due to geohazards. Environmental Earth Sciences, 2016, 75, 1.	2.7	41

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145	Structural Responses of Existing Metro Stations to Adjacent Deep Excavations in Suzhou, China. Journal of Performance of Constructed Facilities, 2016, 30, .	2.0	41
146	Evaluation of Effective Depth of PVD Improvement in Soft Clay Deposit: A Field Case Study. Marine Georesources and Geotechnology, 2016, 34, 420-430.	2.1	40
147	Recent Advances in Horizontal Jet Grouting (HJG): An Overview. Arabian Journal for Science and Engineering, 2018, 43, 1543-1560.	3.0	40
148	Distribution characteristics and utilization of shallow geothermal energy in China. Energy and Buildings, 2020, 229, 110479.	6.7	40
149	Variation of hydro-environment during past four decades with underground sponge city planning to control flash floods in Wuhan, China: An overview. Underground Space (China), 2020, 5, 184-198.	7.5	39
150	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.	8.1	38
151	Laboratory Studies on Property Changes in Surrounding Clays Due to Installation of Deep Mixing Columns. Marine Georesources and Geotechnology, 2003, 21, 15-35.	2.1	37
152	Modeling of Permeation and Fracturing Grouting in Sand: Laboratory Investigations. Journal of Testing and Evaluation, 2018, 46, 2067-2082.	0.7	37
153	Mining-induced geo-hazards with environmental protection measures in Yunnan, China: an overview. Bulletin of Engineering Geology and the Environment, 2015, 74, 141-150.	3.5	36
154	A micro-mechanical model for unsaturated soils based on DEM. Computer Methods in Applied Mechanics and Engineering, 2020, 368, 113183.	6.6	36
155	Evaluation of allowable withdrawn volume of groundwater based on observed data. Natural Hazards, 2013, 67, 513-522.	3.4	35
156	Evaluation of train-load-induced settlement in metro tunnels. Proceedings of the Institution of Civil Engineers: Geotechnical Engineering, 2015, 168, 396-406.	1.6	35
157	Lessons Learnt from Bridge Collapse: A View of Sustainable Management. Sustainability, 2020, 12, 1205.	3.2	35
158	The development of IFN-SPA: A new risk assessment method of urban water quality and its application in Shanghai. Journal of Cleaner Production, 2021, 282, 124542.	9.3	35
159	Risk evaluation of excavation based on fuzzy decision-making model. Automation in Construction, 2022, 136, 104143.	9.8	33
160	Field performance of underground structures during shield tunnel construction. Tunnelling and Underground Space Technology, 2012, 28, 272-277.	6.2	32
161	Engineering properties of lightweight cellular cemented clay-fly ash material. Soils and Foundations, 2015, 55, 471-483.	3.1	32
162	Experimental Evaluation of Aging Characteristics of EPDM as a Sealant for Undersea Shield Tunnels. Journal of Materials in Civil Engineering, 2020, 32, .	2.9	32

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163	Assessment of safety status of shield tunnelling using operational parameters with enhanced SPA. Tunnelling and Underground Space Technology, 2022, 123, 104428.	6.2	32
164	A brief report on the March 21, 2019 explosions at a chemical factory in Xiangshui, China. Process Safety Progress, 2019, 38, e12060.	1.0	31
165	Construction efficiency of shield tunnelling through soft deposit in Tianjin, China. Tunnelling and Underground Space Technology, 2021, 112, 103917.	6.2	31
166	Hydrogeochemical environment of aquifer groundwater in Shanghai and potential hazards to underground infrastructures. Natural Hazards, 2015, 78, 753-774.	3.4	30
167	Predicting self-healing ratio of GCL with a damage hole. Geotextiles and Geomembranes, 2016, 44, 761-769.	4.6	30
168	Protection of neighbour buildings due to construction of shield tunnel in mixed ground with sand over weathered granite. Environmental Earth Sciences, 2016, 75, 1.	2.7	30
169	Prediction of Ground Deformation during Pipe-Jacking Considering Multiple Factors. Applied Sciences (Switzerland), 2018, 8, 1051.	2.5	30
170	Investigation on inspection scheduling for the maintenance of tunnel with different degradation modes. Tunnelling and Underground Space Technology, 2020, 106, 103589.	6.2	29
171	Long-term settlement behavior of ground around shield tunnel due to leakage of water in soft deposit of Shanghai. Frontiers of Architecture and Civil Engineering in China, 2011, 5, 194-198.	0.4	28
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