Ming-feng Lei

List of Publications by Year
in descending order

56	1,216	393982	414034
papers	citations	19 h-index	32 g-index

56	56	56	672
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Model test to investigate the failure mechanisms and lining stress characteristics of shallow buried tunnels under unsymmetrical loading. Tunnelling and Underground Space Technology, 2015, 46, 64-75.	3.0	104
2	Effects of lateral unloading on the mechanical and deformation performance of shield tunnel segment joints. Tunnelling and Underground Space Technology, 2016, 51, 175-188.	3.0	100
3	Squeezing failure of tunnels: A case study. Tunnelling and Underground Space Technology, 2018, 77, 188-203.	3.0	90
4	Soil-water inrush induced shield tunnel lining damage and its stabilization: A case study. Tunnelling and Underground Space Technology, 2020, 97, 103290.	3.0	60
5	Experimental study on the damage mechanism of tunnel structure suffering from sulfate attack. Tunnelling and Underground Space Technology, 2013, 36, 5-13.	3.0	46
6	An experimental study on durability of shield segments under load and chloride environment coupling effect. Tunnelling and Underground Space Technology, 2014, 42, 15-24.	3.0	43
7	An analysis of the ground deformation caused by shield tunnel construction combining an elastic half-space model and stochastic medium theory. KSCE Journal of Civil Engineering, 2017, 21, 1933-1944.	0.9	43
8	Time-dependent performance and constitutive model of EPDM rubber gasket used for tunnel segment joints. Tunnelling and Underground Space Technology, 2015, 50, 490-498.	3.0	42
9	Improved analytical method for evaluating the responses of a shield tunnel to adjacent excavations and its application. Tunnelling and Underground Space Technology, 2020, 98, 103339.	3.0	41
10	Research on the construction risk control technology of shield tunnel underneath an operational railway in sand pebble formation: a case study. European Journal of Environmental and Civil Engineering, 2020, 24, 1558-1572.	1.0	40
11	Model test to investigate failure mechanism and loading characteristics of shallow-bias tunnels with small clear distance. Journal of Central South University, 2016, 23, 3312-3321.	1.2	34
12	Deformation Characteristics and Countermeasures of shallow and Large-span Tunnel Under-crossing the Existing Highway in Soft Soil: a Case Study. KSCE Journal of Civil Engineering, 2018, 22, 3170-3181.	0.9	33
13	A study on damage mechanism modelling of shield tunnel under unloading based on damageâ€“plasticity model of concrete. Engineering Failure Analysis, 2021, 123, 105261.	1.8	33
14	Function mechanism and analytical method of a double layer pre-support system for tunnel underneath passing a large-scale underground pipe gallery in water-rich sandy strata: A case study. Tunnelling and Underground Space Technology, 2021, 115, 104041.	3.0	32
15	Calculation of the surrounding rock pressure on a shallow buried tunnel using linear and nonlinear failure criteria. Automation in Construction, 2014, 37, 191-195.	4.8	31
16	Experimental and model study on dynamic behaviour and fatigue damage of tunnel invert. Construction and Building Materials, 2016, 126, 777-784.	3.2	27
17	Sealing performance of a precast tunnel gasketed joint under high hydrostatic pressures: Site investigation and detailed numerical modeling. Tunnelling and Underground Space Technology, 2021, 115, 104082.	3.0	27
18	Damage mechanism modelling of shield tunnel with longitudinal differential deformation based on elastoplastic damage model. Tunnelling and Underground Space Technology, 2021, 113, 103952.	3.0	26

#	Article	IF	Citations
19	Construction technology for a shallow-buried underwater interchange tunnel with a large span. Tunnelling and Underground Space Technology, 2017, 70, 317-329.	3.0	24
20	Accumulated Deformation Behavior and Computational Model of Water-Rich Mudstone Under Cyclic Loading. Rock Mechanics and Rock Engineering, 2014, 47, 1485-1491.	2.6	18
21	Sealant Performance Test and Stressâ€“Seepage Coupling Model for Tunnel Segment Joints. Arabian Journal for Science and Engineering, 2019, 44, 4201-4212.	1.7	18
22	A Structural Calculation Model of Shield Tunnel Segment: Heterogeneous Equivalent Beam Model. Advances in Civil Engineering, 2018, 2018, 1-16.	0.4	17
23	Deformation Characteristics and Influence Factors of a Shallow Tunnel Excavated in Soft Clay with High Plasticity. Advances in Civil Engineering, 2019, 2019, 1-14.	0.4	17
24	Face stability analysis of shallow underwater tunnels in fractured zones. Arabian Journal of Geosciences, 2016, 9, 1.	0.6	16
25	Dewatering Characteristics and Inflow Prediction of Deep Foundation Pits with Partial Penetrating Curtains in Sand and Gravel Strata. Water (Switzerland), 2019, 11, 2182.	1.2	15
26	Anisotropic properties of shale and its impact on underground structures: an experimental and numerical simulation. Bulletin of Engineering Geology and the Environment, 2021, 80, 7731-7745.	1.6	15
27	Investigation of ultimate bearing capacity of shield tunnel based on concrete damage model. Tunnelling and Underground Space Technology, 2022, 125, 104510.	3.0	15
28	Waterproof Performance of Sealing Gasket in Shield Tunnel: A Review. Applied Sciences (Switzerland), 2022, 12, 4556.	1.3	14
29	Modified chloride diffusion model for concrete under the coupling effect of mechanical load and chloride salt environment. AIP Advances, 2018, 8, 035029.	0.6	13
30	Research on Crossing Tunnelsâ€™ Seismic Response Characteristics. KSCE Journal of Civil Engineering, 2019, 23, 4910-4920.	0.9	13
31	Sudden Variation Effect of Aerodynamic Loads and Safety Analysis of Running Trains When Entering Tunnel Under Crosswind. Applied Sciences (Switzerland), 2020, 10, 1445.	1.3	13
32	Cavity influence on fatigue performance of heavy haul railway Tunnelâ€™s bottom structure. Construction and Building Materials, 2020, 251, 118886.	3.2	12
33	Mechanical property test and analytical method for Reactive Powder Concrete columns under eccentric compression. KSCE Journal of Civil Engineering, 2017, 21, 1307-1318.	0.9	11
34	Effects of void morphology on fracturing characteristics of porous rock through a finite-discrete element method. Journal of Natural Gas Science and Engineering, 2022, 104, 104684.	2.1	11
35	Study on Train Vibration Response and Cumulative Deformation of Double Arch Tunnel in Kast Foundation. Geotechnical and Geological Engineering, 2015, 33, 549-558.	0.8	9
36	Optimal design and dynamic control of construction dewatering with the consideration of dewatering process. KSCE Journal of Civil Engineering, 2017, 21, 1161-1169.	0.9	9

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37	Predicting the Mechanical Properties of Bimrocks with High Rock Block Proportions Based on Resonance Testing Technology and Damage Theory. Applied Sciences (Switzerland), 2019, 9, 3537.	1.3	9
38	Mechanical properties of bimrocks with high rock block proportion. Journal of Central South University, 2019, 26, 3397-3409.	1.2	9
39	Model test to investigate reasonable reactive artificial boundary in shaking table test with a rigid container. Journal of Central South University, 2020, 27, 210-220.	1.2	9
40	An enhanced analytical model for predicting the nonlinear longitudinal equivalent bending stiffness of shield tunnels incorporating combined N-M actions. Tunnelling and Underground Space Technology, 2022, 126, 104567.	3.0	9
41	A Simplified Approach to Design Jet-Grouted Bottom Sealing Barriers for Deep Excavations in Deep Aquifers. Applied Sciences (Switzerland), 2019, 9, 2307.	1.3	8
42	Transfer station cracks induced by cutting anchor cables and crack stabilization: A case study. Engineering Failure Analysis, 2021, 126, 105460.	1.8	8
43	Fatigue Performance of Tunnel Invert in Newly Designed Heavy Haul Railway Tunnel. Applied Sciences (Switzerland), 2019, 9, 5514.	1.3	7
44	Novel Excavation and Construction Method for a Deep Shaft Excavation in Ultrathick Aquifers. Advances in Civil Engineering, 2019, 2019, 1-15.	0.4	7
45	Calculation Model of Supporting System for Tunnel Under Shallow and Weak Surrounding Rock Considering the Synergistic Effects. Geotechnical and Geological Engineering, 2020, 38, 1379-1388.	0.8	6
46	Analysis of Seepage Characteristics of a Foundation Pit with Horizontal Waterproof Curtain in Highly Permeable Strata. Water (Switzerland), 2021, 13, 1303.	1.2	6
47	Instability Mode Analysis of Surrounding Rocks in Tunnel Blasting Construction with Thin Bedrock Roofs. Geotechnical and Geological Engineering, 2018, 36, 2565-2576.	0.8	5
48	Research Progress on Stability of Slurry Wall Trench of Underground Diaphragm Wall and Design Method of Slurry Unit Weight. Advances in Civil Engineering, 2019, 2019, 1-19.	0.4	5
49	Study on the Generalized Displacement Boundary and Its Analytical Prediction for Ground Movements Induced by Shield Tunneling. Advances in Civil Engineering, 2021, 2021, 1-18.	0.4	5
50	Upper bound analytical solution for surrounding rock pressure of shallow unsymmetrical loading tunnels. Journal of Central South University, 2015, 22, 2339-2347.	1.2	4
51	Study on the mechanical properties of outwash deposits with random structure method. Transportation Safety and Environment, 2021, 3, .	1.1	3
52	Design and Application of Risk Early Warning System for Subway Station Construction Based on Building Information Modeling Real-Time Model. Advances in Civil Engineering, 2021, 2021, 1-12.	0.4	2
53	Experimental Investigation of Damage Evolution Characteristics of C50 Concrete under Impact Load. Shock and Vibration, 2020, 2020, 1-10.	0.3	1
54	Influence of unsupported length on underground cavity stability in sandstone stratum with weak interlayer. , 2021, , .		1

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55	Vibratory Influential Zoning for Grade-Separated Tunnels Under the Load of Trains. Geotechnical and Geological Engineering, 2018, 36, 723.	0.8	0
56	EMI Technique for Monitoring the Damage Evolution of Initial Damaged Tunnel Invert Concrete Subjected to High Traffic Cyclic Loading. Advances in Civil Engineering, 2020, 2020, 1-18.	0.4	0