

Jian-xun Chen

List of Publications by Year in descending order

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Version: 2024-02-01

59
papers

1,793
citations

257101

24
h-index

276539

41
g-index

59
all docs

59
docs citations

59
times ranked

863
citing authors

#	ARTICLE	IF	CITATIONS
1	Characteristics of seismic disasters and aseismic measures of tunnels in Wenchuan earthquake. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	118
2	A state-of-the-art review of sustainable energy based freeze proof technology for cold-region tunnels in China. <i>Renewable and Sustainable Energy Reviews</i> , 2018, 82, 3554-3569.	8.2	109
3	Freeze-proof method and test verification of a cold region tunnel employing electric heat tracing. <i>Tunnelling and Underground Space Technology</i> , 2016, 60, 56-65.	3.0	103
4	Investigating the Long-Term Settlement of a Tunnel Built over Improved Loessial Foundation Soil Using Jet Grouting Technique. <i>Journal of Performance of Constructed Facilities</i> , 2018, 32, .	1.0	97
5	Fiber Bragg Grating Sensors-Based In Situ Monitoring and Safety Assessment of Loess Tunnel. <i>Journal of Sensors</i> , 2016, 2016, 1-10.	0.6	96
6	Extreme deformation characteristics and countermeasures for a tunnel in difficult grounds in southern Shaanxi, China. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	85
7	Vibration Response Characteristics of the Cross Tunnel Structure. <i>Shock and Vibration</i> , 2016, 2016, 1-16.	0.3	84
8	Longitudinal deformation profile of a tunnel in weak rock mass by using the back analysis method. <i>Tunnelling and Underground Space Technology</i> , 2018, 71, 478-493.	3.0	84
9	Prediction of Soil Deformation in Tunnelling Using Artificial Neural Networks. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-16.	1.1	72
10	Investigation Progresses and Applications of Fractional Derivative Model in Geotechnical Engineering. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-15.	0.6	63
11	Analysis of tunnel displacement accuracy with total station. <i>Measurement: Journal of the International Measurement Confederation</i> , 2016, 83, 29-37.	2.5	60
12	Investigation of microstructural damage in shotcrete under a freeze-thaw environment. <i>Construction and Building Materials</i> , 2015, 83, 275-282.	3.2	58
13	Deformation and mechanical model of temporary support sidewall in tunnel cutting partial section. <i>Tunnelling and Underground Space Technology</i> , 2017, 61, 40-49.	3.0	57
14	Failure Mechanisms and Modes of Tunnels in Monoclinic and Soft-Hard Interbedded Rocks: A Case Study. <i>KSCE Journal of Civil Engineering</i> , 2020, 24, 1357-1373.	0.9	56
15	Deformation Behaviors and Mechanical Mechanisms of Double Primary Linings for Large-Span Tunnels in Squeezing Rock: A Case Study. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2291-2310.	2.6	55
16	Blasting Vibration Monitoring of Undercrossing Railway Tunnel Using Wireless Sensor Network. <i>International Journal of Distributed Sensor Networks</i> , 2015, 11, 703980.	1.3	51
17	Stability analysis of super-large-section tunnel in loess ground considering water infiltration caused by irrigation. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	47
18	Structural Safety Assessment of Existing Multiarch Tunnel: A Case Study. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-11.	1.0	47

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19	New Technology and Experimental Study on Snow-Melting Heated Pavement System in Tunnel Portal. <i>Advances in Materials Science and Engineering</i> , 2015, 2015, 1-11.	1.0	46
20	Mechanical properties and reasonable proportioning of similar materials in physical model test of tunnel lining cracking. <i>Construction and Building Materials</i> , 2021, 300, 123960.	3.2	40
21	Mechanical characteristics of primary support of large span loess highway tunnel: A case study in Shaanxi Province, Loess Plateau, NW China primary. <i>Tunnelling and Underground Space Technology</i> , 2020, 104, 103532.	3.0	39
22	Nonlinear deformation behaviors and a new approach for the classification and prediction of large deformation in tunnel construction stage: a case study. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 2008-2036.	1.0	38
23	Deformation rule and mechanical characteristics of temporary support in soil tunnel constructed by sequential excavation method. <i>KSCE Journal of Civil Engineering</i> , 2017, 21, 2439-2449.	0.9	37
24	Application of a Total Station with RDM to Monitor Tunnel Displacement. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	1.0	30
25	Long-term stress monitoring and in-service durability evaluation of a large-span tunnel in squeezing rock. <i>Tunnelling and Underground Space Technology</i> , 2022, 127, 104611.	3.0	17
26	Research status and progress of tunnel frost damage. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2019, 6, 297-309.	2.0	15
27	Deformation Evolution and Failure Mechanism of Monoclinic and Soft-Hard Interbedded Strata: Study of Muzhailing Tunnel. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, .	1.0	13
28	Dynamic effect of metro-induced vibration on the rammed earth base of the Bell Tower. <i>SpringerPlus</i> , 2016, 5, 935.	1.2	12
29	Monitoring and analysis of the operational environment in an extra-long highway tunnel with longitudinal ventilation. <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 475-484.	3.0	12
30	The change of rock mass pressure of Lianchengshan tunnel. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	12
31	Pollutant concentration measurement and emission factor analysis of highway tunnel with mainly HCVs in mountainous area. <i>Tunnelling and Underground Space Technology</i> , 2020, 106, 103591.	3.0	11
32	Fiber Bragg Grating-Based Performance Monitoring of Piles Fiber in a Geotechnical Centrifugal Model Test. <i>Advances in Materials Science and Engineering</i> , 2014, 2014, 1-8.	1.0	10
33	Damage of shotcrete under freeze-thaw loading. <i>Journal of Civil Engineering and Management</i> , 2017, 23, 583-593.	1.9	10
34	Study of Deformation Behaviors and Mechanical Properties of Central Diaphragm in a Large-Span Loess Tunnel by the Upper Bench CD Method. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-19.	0.4	10
35	Long-term, real-time and multi-channel distributed temperature monitoring system for tunnels in cold regions. <i>Measurement Science and Technology</i> , 2019, 30, 065105.	1.4	9
36	Mechanical and Deformation Characteristics and Optimization of Support Parameters for Superlarge-Span Tunnel: A Case Study from Laohushan Tunnel. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-17.	0.4	8

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37	Geomechanical model test for mechanical properties and cracking features of Large-section tunnel lining under periodic temperature. <i>Tunnelling and Underground Space Technology</i> , 2022, 123, 104319.	3.0	8
38	Analysis of Pipe-Roof in Tunnel Exiting Portal by the Foundation Elastic Model. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-12.	0.6	6
39	Application of the Upper-Bench CD Method in Super Large-Span and Shallow Tunnel: A Case Study of Letuan Tunnel. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-16.	0.4	6
40	In Situ Test of Grouting Reinforcement for Water-Enriched Sandy Gravel Ground in River Floodplain. <i>Advances in Materials Science and Engineering</i> , 2016, 2016, 1-12.	1.0	5
41	Mechanical Properties and Acoustic Emission Characteristics of Karst Limestone under Uniaxial Compression. <i>Advances in Materials Science and Engineering</i> , 2018, 2018, 1-14.	1.0	5
42	Investigation of the Insulation Effect of Thermal Insulation Layer in the Seasonally Frozen Region Tunnel: A Case Study in the Zuomutai Tunnel, China. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-14.	0.4	5
43	Propagation Laws of Blasting Seismic Waves in Weak Rock Mass: A Case Study of Muzhailing Tunnel. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-15.	0.4	5
44	Back-Calculation Method of Rock Mass Pressure in a Shallow-Buried Super Large-Span Tunnel Using Upper-Bench CD Method. <i>KSCE Journal of Civil Engineering</i> , 2022, 26, 433-447.	0.9	5
45	Using the Schwarz Alternating Method to Identify Critical Water-Resistant Thickness between Tunnel and Concealed Cavity. <i>Advances in Civil Engineering</i> , 2018, 2018, 1-14.	0.4	4
46	Corrigendum to "Fiber Bragg Grating Sensors-Based In Situ Monitoring and Safety Assessment of Loess Tunnel". <i>Journal of Sensors</i> , 2019, 2019, 1-1.	0.6	4
47	Vertical Load and Settlement at the Foot of Steel Rib with the Support of Feet-Lock Pipe in Soft Ground Tunnel. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-12.	0.4	4
48	New Method of Monitoring Tunnel Feet-Lock Pipe (TFP) Mechanics Using Fiber Bragg Grating (FBG). <i>Journal of Testing and Evaluation</i> , 2020, 48, 20170364.	0.4	4
49	Stability Analysis of Water-Resistant Strata in Karst Tunnel Based on Releasable Elastic Strain Energy. <i>Mathematical Problems in Engineering</i> , 2017, 2017, 1-9.	0.6	3
50	Random Forests-Based Operational Status Perception Model in Extra-Long Highway Tunnels with Longitudinal Ventilation: A Case Study in China. <i>Journal of Advanced Transportation</i> , 2018, 2018, 1-10.	0.9	3
51	Variation of Rock Mass Pressure during Tunnel Construction in Phyllite Stratum. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	0.6	3
52	Performance of Super-Large-Span Tunnel Portal Excavated by Upper Bench CD Method Based on Field Monitoring and Numerical Modeling. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-15.	0.4	3
53	Strain Rate Effect on Acoustic Emission Characteristics and Energy Mechanisms of Karst Limestone under Uniaxial Compression. <i>Advances in Materials Science and Engineering</i> , 2020, 2020, 1-13.	1.0	3
54	Performance of Tunnel Feet-Lock Pipe (TFP) in Sharing Vertical Foundation Load. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 1086-1094.	0.9	2

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55	Study on the Annual Reduction Rate of Vehicle Emission Factors for Carbon Monoxide: A Case Study of Urban Road Tunnels in Shenzhen, China. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-17.	0.4	1
56	Laboratory Model Test Research on Mechanical Characteristics of Anchor in Loess Tunnel under the Action of Pull-Out Load. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-10.	0.4	1
57	Dynamic response characteristics of dry and water-saturated schist under impact loading. <i>Journal of Mountain Science</i> , 2020, 17, 3123-3136.	0.8	1
58	Mechanical properties of rock bolt and analysis for the full-process of sliding failure based on rock mass absolute displacement. <i>Journal of Traffic and Transportation Engineering (English Edition)</i> , 2022, 9, 490-506.	2.0	1
59	Mechanical Characteristic and Length Optimization of System Anchor in Loess Tunnel Based on Field Measurement and Analytical Solution. <i>Mathematical Problems in Engineering</i> , 2021, 2021, 1-11.	0.6	0