

# Jian-xun Chen

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1759683/publications.pdf>

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	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
2	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
3	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
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	Variation of Rock Mass Pressure during Tunnel Construction in Phyllite Stratum. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	0.6	3
13	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
14	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
15	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
16	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
17	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
18	Pollutant concentration measurement and emission factor analysis of highway tunnel with mainly HGVs in mountainous area. <i>Tunnelling and Underground Space Technology</i> , 2020, 106, 103591.	3.0	11

#	ARTICLE	IF	CITATIONS
19	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
20	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
21	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
22	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
23	The change of rock mass pressure of Lianchengshan tunnel. <i>Environmental Earth Sciences</i> , 2020, 79, 1.	1.3	12
24	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
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	Characteristics of seismic disasters and aseismic measures of tunnels in Wenchuan earthquake. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	118
40	Application of a Total Station with RDM to Monitor Tunnel Displacement. <i>Journal of Performance of Constructed Facilities</i> , 2017, 31, .	1.0	30
41	Damage of shotcrete under freeze-thaw loading. <i>Journal of Civil Engineering and Management</i> , 2017, 23, 583-593.	1.9	10
42	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
43	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
44	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
45	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
46	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
47	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
48	Prediction of Soil Deformation in Tunnelling Using Artificial Neural Networks. <i>Computational Intelligence and Neuroscience</i> , 2016, 2016, 1-16.	1.1	72
49	Vibration Response Characteristics of the Cross Tunnel Structure. <i>Shock and Vibration</i> , 2016, 2016, 1-16.	0.3	84
50	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
51	Investigation Progresses and Applications of Fractional Derivative Model in Geotechnical Engineering. <i>Mathematical Problems in Engineering</i> , 2016, 2016, 1-15.	0.6	63
52	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
53	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
54	Dynamic effect of metro-induced vibration on the rammed earth base of the Bell Tower. <i>SpringerPlus</i> , 2016, 5, 935.	1.2	12

#	ARTICLE	IF	CITATIONS
55	Analysis of tunnel displacement accuracy with total station. Measurement: Journal of the International Measurement Confederation, 2016, 83, 29-37.	2.5	60
56	Blasting Vibration Monitoring of Undercrossing Railway Tunnel Using Wireless Sensor Network. International Journal of Distributed Sensor Networks, 2015, 11, 703980.	1.3	51
57	New Technology and Experimental Study on Snow-Melting Heated Pavement System in Tunnel Portal. Advances in Materials Science and Engineering, 2015, 2015, 1-11.	1.0	46
58	Investigation of microstructural damage in shotcrete under a freeze-thaw environment. Construction and Building Materials, 2015, 83, 275-282.	3.2	58
59	Fiber Bragg Grating-Based Performance Monitoring of Piles Fiber in a Geotechnical Centrifugal Model Test. Advances in Materials Science and Engineering, 2014, 2014, 1-8.	1.0	10