

Zhi-gang Tao

List of Publications by Year in descending order

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49
papers

1,027
citations

623188

14
h-index

433756

31
g-index

50
all docs

50
docs citations

50
times ranked

735
citing authors

#	ARTICLE	IF	CITATIONS
1	Development of a novel energy-absorbing bolt with extraordinarily large elongation and constant resistance. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 67, 29-42.	2.6	330
2	Investigating Toppling Failure Mechanism of Anti-dip Layered Slope due to Excavation by Physical Modelling. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5029-5050.	2.6	170
3	Failure mechanism and control technology of large deformation for Muzhailing Tunnel in stratified rock masses. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 4731-4750.	1.6	49
4	The mechanical mechanisms of large-scale toppling failure for counter-inclined rock slopes. <i>Journal of Geophysics and Engineering</i> , 2019, 16, 541-558.	0.7	43
5	Mechanical evolution of constant resistance and large deformation anchor cables and their application in landslide monitoring. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 4787-4803.	1.6	42
6	Failure mechanisms of soft rock roadways in steeply inclined layered rock formations. <i>Geomatics, Natural Hazards and Risk</i> , 2018, 9, 1186-1206.	2.0	39
7	Design and Application of a Monitoring System for a Deep Railway Foundation Pit Project. <i>IEEE Access</i> , 2019, 7, 107591-107601.	2.6	39
8	Combined Application of Optical Fibers and CRLD Bolts to Monitor Deformation of a Pit-in-Pit Foundation. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-16.	0.4	27
9	Slope stability evaluation and monitoring of Tonglushan ancient copper mine relics. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401879170.	0.8	25
10	Support principles of NPR bolt/cable and control techniques of large-deformation disasters. <i>International Journal of Mining Science and Technology</i> , 2016, 26, 967-973.	4.6	23
11	State of the art review of the large deformation rock bolts. <i>Underground Space (China)</i> , 2022, 7, 465-482.	3.4	23
12	Application of Constant Resistance and Large Deformation Anchor Cable in Soft Rock Highway Tunnel. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-19.	0.4	18
13	Design and operation of App-based intelligent landslide monitoring system: the case of Three Gorges Reservoir Region. <i>Geomatics, Natural Hazards and Risk</i> , 2019, 10, 1209-1226.	2.0	18
14	Characteristics of failure area and failure mechanism of a landslide in Yingjiang County, Yunnan, China. <i>Landslides</i> , 2021, 18, 721-735.	2.7	16
15	Longwall mining method with roof-cutting unloading and numerical investigation of ground pressure and roof stability. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	15
16	Stability analysis of open-pit gold mine slopes and optimization of mining scheme in Inner Mongolia, China. <i>Journal of Mountain Science</i> , 2020, 17, 2997-3011.	0.8	15
17	Eco-geological environment quality assessment based on multi-source data of the mining city in red soil hilly region, China. <i>Journal of Mountain Science</i> , 2022, 19, 253-275.	0.8	13
18	The Characteristics of Oil Migration due to Water Imbibition in Tight Oil Reservoirs. <i>Energies</i> , 2019, 12, 4199.	1.6	12

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19	Model test on support scheme for carbonaceous slate tunnel in high geostress zone at high depth. <i>Journal of Mountain Science</i> , 2021, 18, 764-778.	0.8	12
20	Monitoring prediction of a rockslide in an open-pit mine and numerical analysis using a material instability criterion. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 2041-2053.	1.6	11
21	Static Pull Testing of a New Type of Large Deformation Cable with Constant Resistance. <i>Advances in Materials Science and Engineering</i> , 2017, 2017, 1-9.	1.0	10
22	Analysis of the Critical Safety Thickness for Pretreatment of Mined-Out Areas Underlying the Final Slopes of Open-Pit Mines and the Effects of Treatment. <i>Shock and Vibration</i> , 2018, 2018, 1-8.	0.3	10
23	Method of equivalent core diameter of actual fracture section for the determination of point load strength index of rocks. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 4575-4585.	1.6	9
24	Start-Up Mechanism and Dynamic Process of Landslides in the Full High Waste Dump. <i>Water (Switzerland)</i> , 2020, 12, 2543.	1.2	7
25	Rock Failure and Instability from a Structural Perspective: Insights from the Shape Effect. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 937-952.	2.6	7
26	Comprehensive Engineering Geological Analysis on Large-Scale Anti-dip Slopes: A Case Study of Changshanhao Opencast Gold Mine in China. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 1181-1200.	0.8	6
27	Research on Deformation Mechanisms of a High Geostress Soft Rock Roadway and Double-Shell Grouting Technology. <i>Geofluids</i> , 2021, 2021, 1-13.	0.3	5
28	Deformation-softening behaviors of high-strength and high-toughness steels used for rock bolts. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1872-1884.	3.7	5
29	Experimental Study on Key Parameters of Bidirectional Cumulative Tensile Blasting with Coal-Containing Composite Roof. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 1718-1731.	0.9	4
30	Determining In-Situ Stress State by Anelastic Strain Recovery Method Beneath Xiamen: Implications for the Coastal Region of Southeastern China. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5687-5703.	2.6	4
31	Numerical Analysis and Deformation Mechanism Study on an Excavated High-Steep Slope of a Hydropower Station. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-17.	0.4	3
32	Research on Supporting Measure at Intersection of Inclined Shaft and Major Tunnel in Highway. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-15.	0.4	3
33	The Study of the Supernormal Mechanical Properties of Giant NPR Anchor Cables. <i>Shock and Vibration</i> , 2020, 2020, 1-13.	0.3	3
34	Prediction of Deep Rock Mass Quality and Spatial Distribution Law of Open-pit Gold Mine Based on 3D Geological Modeling. <i>Geotechnical and Geological Engineering</i> , 2021, 39, 3221-3238.	0.8	2
35	Visualization damage evaluation system research of structure in subsidence area based on GIS. , 2011, , .		1
36	Landslides Remote Monitoring System and its shortages appeared in applications. , 2011, , .		1

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37	An Improved Discontinuous Deformation Analysis to Solve Both Shear and Tensile Failure Problems. KSCE Journal of Civil Engineering, 2019, 23, 1974-1989.	0.9	1
38	Experimental System of Hydrodynamic Action of Dunhuang Mogao Grottoes under Temperature-Humidity-Mechanical (THM) Coupling. Geofluids, 2020, 2020, 1-23.	0.3	1
39	3D Numerical Simulation of Landslides for the Full High Waste Dump Using SPH Method. Advances in Civil Engineering, 2021, 2021, 1-16.	0.4	1
40	Classification and Recognition Model of Water Saturation Level of Rock Based on Near-Infrared Spectroscopy. Geotechnical Testing Journal, 2021, 44, 564-583.	0.5	1
41	Seepage Analysis of Orthogonal Shear Cracks in Granite Based on Fractal Theory. Geotechnical and Geological Engineering, 0, , 1.	0.8	1
42	Challenges and Opportunities in Rock Mechanics and Engineering—An Overview. Energies, 2022, 15, 807.	1.6	1
43	Comparative Study of Nine Intact Rock Failure Criteria via Analytical Geometry. Rock Mechanics and Rock Engineering, 2022, 55, 3083-3106.	2.6	1
44	Damage Constitutive Model of Microcrack Rock under Tension. Advances in Civil Engineering, 2020, 2020, 1-10.	0.4	0
45	Fracture Propagation Characteristics in Horizontal Wells. Chemistry and Technology of Fuels and Oils, 2020, 56, 405-410.	0.2	0
46	Microscopic Mechanism of Water Vapor Adsorption Experiments on Deep Soft Rock Water Vapor. Chemistry and Technology of Fuels and Oils, 2020, 56, 465-471.	0.2	0
47	Stability Evaluation of Deformation (Denudation) of Yuanjue Rock Cave Roof Based on Multisource Monitoring. Shock and Vibration, 2020, 2020, 1-12.	0.3	0
48	Triggering mechanism and dynamic process of water-rock flow in Nanfen waste dump in 2010. Journal of Mountain Science, 2021, 18, 2565-2579.	0.8	0
49	Intelligent Drilling Depth Monitoring System for Geotechnical Site Investigation. Shock and Vibration, 2022, 2022, 1-8.	0.3	0