

# Zhi-gang Tao

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 2  | State of the art review of the large deformation rock bolts. <i>Underground Space (China)</i> , 2022, 7, 465-482.   | 3.4 | 23        |
| 3  | Challenges and Opportunities in Rock Mechanics and Engineering—An Overview. <i>Energies</i> , 2022, 15, 807.  | 1.6 | 1         |
| 4  | 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        |
| 5  | Comparative Study of Nine Intact Rock Failure Criteria via Analytical Geometry. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3083-3106.   | 2.6 | 1         |
| 6  | 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         |
| 7  | Intelligent Drilling Depth Monitoring System for Geotechnical Site Investigation. <i>Shock and Vibration</i> , 2022, 2022, 1-8.   | 0.3 | 0         |
| 8  | 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         |
| 9  | 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        |
| 10 | 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         |
| 11 | 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         |
| 12 | 3D Numerical Simulation of Landslides for the Full High Waste Dump Using SPH Method. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-16.   | 0.4 | 1         |
| 13 | Classification and Recognition Model of Water Saturation Level of Rock Based on Near-Infrared Spectroscopy. <i>Geotechnical Testing Journal</i> , 2021, 44, 564-583.  | 0.5 | 1         |
| 14 | 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         |
| 15 | 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        |
| 16 | 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         |
| 17 | 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        |
| 18 | Triggering mechanism and dynamic process of water-rock flow in Nanfen waste dump in 2010. <i>Journal of Mountain Science</i> , 2021, 18, 2565-2579.   | 0.8 | 0         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | 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         |
| 20 | Experimental System of Hydrodynamic Action of Dunhuang Mogao Grottoes under Temperature-Humidity-Mechanical (THM) Coupling. <i>Geofluids</i> , 2020, 2020, 1-23.                        | 0.3 | 1         |
| 21 | Damage Constitutive Model of Microcrack Rock under Tension. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-10.  | 0.4 | 0         |
| 22 | 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       |
| 23 | 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         |
| 24 | Fracture Propagation Characteristics in Horizontal Wells. <i>Chemistry and Technology of Fuels and Oils</i> , 2020, 56, 405-410.  | 0.2 | 0         |
| 25 | Microscopic Mechanism of Water Vapor Adsorption Experiments on Deep Soft Rock Water Vapor. <i>Chemistry and Technology of Fuels and Oils</i> , 2020, 56, 465-471.                       | 0.2 | 0         |
| 26 | 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         |
| 27 | Stability Evaluation of Deformation (Denudation) of Yuanjue Rock Cave Roof Based on Multisource Monitoring. <i>Shock and Vibration</i> , 2020, 2020, 1-12.                              | 0.3 | 0         |
| 28 | The Study of the Supernormal Mechanical Properties of Giant NPR Anchor Cables. <i>Shock and Vibration</i> , 2020, 2020, 1-13.   | 0.3 | 3         |
| 29 | 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        |
| 30 | Start-Up Mechanism and Dynamic Process of Landslides in the Full High Waste Dump. <i>Water (Switzerland)</i> , 2020, 12, 2543.  | 1.2 | 7         |
| 31 | 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        |
| 32 | 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        |
| 33 | 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        |
| 34 | An Improved Discontinuous Deformation Analysis to Solve Both Shear and Tensile Failure Problems. <i>KSCE Journal of Civil Engineering</i> , 2019, 23, 1974-1989.                        | 0.9 | 1         |
| 35 | 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        |
| 36 | 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        |

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|----|--|-----|-----------|
| 37 | The Characteristics of Oil Migration due to Water Imbibition in Tight Oil Reservoirs. <i>Energies</i> , 2019, 12, 4199.  | 1.6 | 12        |
| 38 | 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        |
| 39 | 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        |
| 40 | 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        |
| 41 | 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        |
| 42 | 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        |
| 43 | Slope stability evaluation and monitoring of Tonglushan ancient copper mine relics. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401879170.   | 0.8 | 25        |
| 44 | 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        |
| 45 | 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        |
| 46 | 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       |
| 47 | Visualization damage evaluation system research of structure in subsidence area based on GIS. , 2011, , .  |     | 1         |
| 48 | Landslides Remote Monitoring System and its shortages appeared in applications. , 2011, , .  |     | 1         |
| 49 | Seepage Analysis of Orthogonal Shear Cracks in Granite Based on Fractal Theory. <i>Geotechnical and Geological Engineering</i> , 0, , 1.   | 0.8 | 1         |