

Xiao Zhang

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

530
citations

933447

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642732

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docs citations

27
times ranked

378
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Protection against water or mud inrush in tunnels by grouting: A review. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 753-766. | 8.1 | 187 |
| 2 | Grouting rock fractures with cement and sodium silicate grout. <i>Carbonates and Evaporites</i> , 2018, 33, 211-222. | 1.0 | 87 |
| 3 | A Deep-Learning-Based Multiple Defect Detection Method for Tunnel Lining Damages. <i>IEEE Access</i> , 2019, 7, 182643-182657. | 4.2 | 44 |
| 4 | Mud inrush flow mechanisms: a case study in a water-rich fault tunnel. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 6267-6283. | 3.5 | 34 |
| 5 | Model test on development characteristics and displacement variation of water and mud inrush on tunnel in fault fracture zone. <i>Natural Hazards</i> , 2019, 99, 467-492. | 3.4 | 20 |
| 6 | Grouting Diffusion Characteristics in Faults Considering the Interaction of Multiple Grouting. <i>International Journal of Geomechanics</i> , 2017, 17, . | 2.7 | 19 |
| 7 | Detection and treatment of water inflow in karst tunnel: A case study in Daba tunnel. <i>Journal of Mountain Science</i> , 2018, 15, 1585-1596. | 2.0 | 19 |
| 8 | Parameters Optimization of Curtain Grouting Reinforcement Cycle in Yonglian Tunnel and Its Application. <i>Mathematical Problems in Engineering</i> , 2015, 2015, 1-15. | 1.1 | 18 |
| 9 | Analysis of Water and Mud Inrush in Tunnel Fault Fracture Zone—A Case Study of Yonglian Tunnel. <i>Sustainability</i> , 2021, 13, 9585. | 3.2 | 12 |
| 10 | Modified Burgers model of creep behavior of grouting-reinforced body and its long-term effect on tunnel operation. <i>Tunnelling and Underground Space Technology</i> , 2022, 127, 104537. | 6.2 | 12 |
| 11 | Experimental Study on Grouting Reinforcement Mechanism of Heterogeneous Fractured Rock and Soil Mass. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 4949-4967. | 1.7 | 10 |
| 12 | Bridging the gap between engineering properties and grouting reinforcement mechanisms for loess in eastern China: taking Jinan loess as an example. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 4125-4141. | 3.5 | 9 |
| 13 | Influence of Mineralogy on Rock Mechanical Behaviour Considering Dynamic Alteration Damage Caused by SC-CO ₂ : A Comparative Study on Different Rock Types. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3129-3151. | 5.4 | 9 |
| 14 | Mitigation of Karst Tunnel Water Inrush during Operation in Seasonal Variation Zone: Case Study in Nanshibi Tunnel. <i>Journal of Performance of Constructed Facilities</i> , 2021, 35, . | 2.0 | 8 |
| 15 | Bubble behaviors in chemical direct foaming process and effects on pore structures of geopolymer foams. <i>Journal of the American Ceramic Society</i> , 2022, 105, 6063-6075. | 3.8 | 8 |
| 16 | Experimental Study on the Ratio of Similar Materials in Weak Surrounding Rock Based on Orthogonal Design. <i>Journal of Engineering (United States)</i> , 2018, 2018, 1-6. | 1.0 | 6 |
| 17 | Cohesion variation during instability evolution of disaster medium in mud inrush of mountain tunnel. <i>Journal of Mountain Science</i> , 2019, 16, 2519-2531. | 2.0 | 4 |
| 18 | Performance evaluation and flow analysis of two-cylinder triangular rotor pump based on experiment and numerical simulation. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2019, 13, JAMDSM0003-JAMDSM0003. | 0.7 | 4 |

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|----|--|-----|-----------|
| 19 | Dynamic alteration damage to granite by SC-CO ₂ : A proof of concept with an innovative apparatus design. Measurement: Journal of the International Measurement Confederation, 2021, 184, 109969. | 5.0 | 4 |
| 20 | Model experiment on surface subsidence induced by excavation of shallow small-spacing tunnels. Environmental Earth Sciences, 2022, 81, 1. | 2.7 | 4 |
| 21 | Enhanced geothermal system productivity analysis of a well-group in a limited area based on the flow field split method. Environmental Earth Sciences, 2021, 80, 1. | 2.7 | 3 |
| 22 | Optimization Analysis of Construction Scheme for Large-Span Highway Tunnel Under Complex Conditions. Archives of Civil Engineering, 2018, 64, 55-68. | 0.7 | 3 |
| 23 | Shear strength of grouted clay: comparison of triaxial tests to direct shear tests. Bulletin of Engineering Geology and the Environment, 2022, 81, . | 3.5 | 3 |
| 24 | Layered Grouting Technology Based on a Comprehensive Water-to-Cement Ratio for the Overlying Loess Stratum of Urban Shallow Tunnels. Advances in Civil Engineering, 2020, 2020, 1-13. | 0.7 | 2 |
| 25 | Experimental Research on Destruction Characteristics of Mud Inrush on Tunnel in Argillaceous Fault Fracture Zone. IOP Conference Series: Earth and Environmental Science, 2020, 555, 012110. | 0.3 | 1 |
| 26 | Simulated Grouting Diffusion Test in a Fault Medium by Single Injection Pipe. , 2016, , . | | 0 |
| 27 | Analysis on a Strength of a Fault Gouge with a Preset Structural Plane after Strengthening by C-S Grout. , 2016, , . | | 0 |