

Xiao Zhang

List of Publications by Year in descending order

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papers

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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
2	Model experiment on surface subsidence induced by excavation of shallow small-spacing tunnels. <i>Environmental Earth Sciences</i> , 2022, 81, 1.	2.7	4
3	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
4	Shear strength of grouted clay: comparison of triaxial tests to direct shear tests. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, .	3.5	3
5	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
6	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
7	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
8	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
9	Dynamic alteration damage to granite by SC-CO ₂ : A proof of concept with an innovative apparatus design. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 184, 109969.	5.0	4
10	Enhanced geothermal system productivity analysis of a well-group in a limited area based on the flow field split method. <i>Environmental Earth Sciences</i> , 2021, 80, 1.	2.7	3
11	Layered Grouting Technology Based on a Comprehensive Water-to-Cement Ratio for the Overlying Loess Stratum of Urban Shallow Tunnels. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-13.	0.7	2
12	Experimental Research on Destruction Characteristics of Mud Inrush on Tunnel in Argillaceous Fault Fracture Zone. <i>IOP Conference Series: Earth and Environmental Science</i> , 2020, 555, 012110.	0.3	1
13	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
14	A Deep-Learning-Based Multiple Defect Detection Method for Tunnel Lining Damages. <i>IEEE Access</i> , 2019, 7, 182643-182657.	4.2	44
15	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
16	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
17	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
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

#	ARTICLE	IF	CITATIONS
19	Grouting rock fractures with cement and sodium silicate grout. Carbonates and Evaporites, 2018, 33, 211-222.	1.0	87
20	Experimental Study on the Ratio of Similar Materials in Weak Surrounding Rock Based on Orthogonal Design. Journal of Engineering (United States), 2018, 2018, 1-6.	1.0	6
21	Detection and treatment of water inflow in karst tunnel: A case study in Daba tunnel. Journal of Mountain Science, 2018, 15, 1585-1596.	2.0	19
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	Grouting Diffusion Characteristics in Faults Considering the Interaction of Multiple Grouting. International Journal of Geomechanics, 2017, 17, .	2.7	19
24	Simulated Grouting Diffusion Test in a Fault Medium by Single Injection Pipe. , 2016, , .		0
25	Analysis on a Strength of a Fault Gouge with a Preset Structural Plane after Strengthening by C-S Grout. , 2016, , .		0
26	Protection against water or mud inrush in tunnels by grouting: A review. Journal of Rock Mechanics and Geotechnical Engineering, 2016, 8, 753-766.	8.1	187
27	Parameters Optimization of Curtain Grouting Reinforcement Cycle in Yonglian Tunnel and Its Application. Mathematical Problems in Engineering, 2015, 2015, 1-15.	1.1	18