Zhao-fei Chu

List of Publications by Year
in descending order

22 papers	658 citations	567281 15 h-index	752698 20 g-index
22 all docs	22 docs citations	22 times ranked	262 citing authors

#	Article	IF	Citations
1	Coupled analytical solutions for deep-buried circular lined tunnels considering tunnel face advancement and soft rock rheology effects. Tunnelling and Underground Space Technology, 2019, 94, 103111.	6.2	70
2	A critical review on the performance of yielding supports in squeezing tunnels. Tunnelling and Underground Space Technology, 2021, 115, 103815.	6.2	65
3	Analytical Solution for Lined Circular Tunnels in Deep Viscoelastic Burgers Rock Considering the Longitudinal Discontinuous Excavation and Sequential Installation of Liners. Journal of Engineering Mechanics - ASCE, 2021, 147, .	2.9	58
4	Evolutions of the unfrozen water content of saturated sandstones during freezing process and the freeze-induced damage characteristics. International Journal of Rock Mechanics and Minings Sciences, 2021, 142, 104757.	5.8	52
5	Analytical Approach to Estimating the Influence of Shotcrete Hardening Property on Tunnel Response. Journal of Engineering Mechanics - ASCE, 2022, 148, .	2.9	47
6	Real-time rock mass condition prediction with TBM tunneling big data using a novel rock–machine mutual feedback perception method. Journal of Rock Mechanics and Geotechnical Engineering, 2021, 13, 1311-1325.	8.1	44
7	Evaluating the Microstructure Evolution Behaviors of Saturated Sandstone Using NMR Testing Under Uniaxial Short-Term and Creep Compression. Rock Mechanics and Rock Engineering, 2021, 54, 4905-4927.	5.4	42
8	Analytical Solutions for Deep-Buried Lined Tunnels Considering Longitudinal Discontinuous Excavation in Rheological Rock Mass. Journal of Engineering Mechanics - ASCE, 2020, 146, .	2.9	40
9	An Improved Nonlinear Creep Model for Rock Applied to Tunnel Displacement Prediction. International Journal of Applied Mechanics, 2021, 13, .	2.2	39
10	Tunnel collapse risk assessment based on multistate fuzzy Bayesian networks. Quality and Reliability Engineering International, 2018, 34, 1646-1662.	2.3	38
11	Micro-mechanism of brittle creep in saturated sandstone and its mechanical behavior after creep damage. International Journal of Rock Mechanics and Minings Sciences, 2022, 149, 104994.	5.8	30
12	An extended numerical manifold method for simulation of grouting reinforcement in deep rock tunnels. Tunnelling and Underground Space Technology, 2021, 115, 104020.	6.2	29
13	Real-time characterization of the grouting diffusion process in fractured sandstone based on the low-field nuclear magnetic resonance technique. International Journal of Rock Mechanics and Minings Sciences, 2022, 152, 105060.	5.8	29
14	Time-Dependent Solutions for Lined Circular Tunnels Considering Rockbolts Reinforcement and Face Advancement Effects. International Journal of Geomechanics, 2021, 21, .	2.7	22
15	Time-dependent safety of lining structures of circular tunnels in weak rock strata. International Journal of Mining Science and Technology, 2022, 32, 323-334.	10.3	19
16	Mechanical response of inclined TBM tunnel due to drainage settlement of deep sandstone aquifer. Tunnelling and Underground Space Technology, 2022, 122, 104393.	6.2	12
17	Permeability, deformation characteristics, and damage constitutive model of shale under triaxial hydromechanical coupling. Bulletin of Engineering Geology and the Environment, 2022, 81, 1.	3.5	8
18	Experimental and numerical studies of the impact breakage of granite with high ejection velocities. PLoS ONE, 2022, 17, e0266241.	2.5	5

#	Article	IF	Citations
19	Numerical investigation of rock dynamic fragmentation during rockslides using a coupled 3D FEM-DEM method. Journal of Mountain Science, 2022, 19, 1051-1069.	2.0	5
20	An Improved Wave Velocity Model for Acoustic Emission Source Localization in Heterogeneous Rock Materials with Unknown Inclusions. Journal of Engineering Mechanics - ASCE, 2022, 148, .	2.9	4
21	A Novel Model Using Virtual State Variables and Bayesian Discriminant Analysis to Classify Surrounding Rock Stability. Shock and Vibration, 2021, 2021, 1-10.	0.6	0
22	Numerical Study on the Dynamic Fracture Energy of Concrete Based on a Rate-Dependent Cohesive Model. Materials, 2021, 14, 7421.	2.9	0