

Manchao He

List of Publications by Year in descending order

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55
papers

1,522
citations

331538

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times ranked

993
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	An Innovative Approach for Gob-Side Entry Retaining in Thick Coal Seam Longwall Mining. <i>Energies</i> , 2017, 10, 1785.	1.6	111
3	Moment Tensor Analysis of Acoustic Emissions for Cracking Mechanisms During Schist Strain Burst. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 153-170.	2.6	97
4	Effect of wetting and drying cycles on microstructure of rock based on SEM. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	93
5	Roof Deformation Characteristics and Preventive Techniques Using a Novel Non-Pillar Mining Method of Gob-Side Entry Retaining by Roof Cutting. <i>Energies</i> , 2018, 11, 627.	1.6	82
6	Shear mechanical responses of sandstone exposed to high temperature under constant normal stiffness boundary conditions. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	75
7	A damage model for modeling the complete stress-strain relations of brittle rocks under uniaxial compression. <i>International Journal of Damage Mechanics</i> , 2018, 27, 1000-1019.	2.4	69
8	Analysis and Optimization of Entry Stability in Underground Longwall Mining. <i>Sustainability</i> , 2017, 9, 2079.	1.6	64
9	Mine Strata Pressure Characteristics and Mechanisms in Gob-Side Entry Retention by Roof Cutting under Medium-Thick Coal Seam and Compound Roof Conditions. <i>Energies</i> , 2018, 11, 2539.	1.6	50
10	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
11	Key Technologies and Application Test of an Innovative Noncoal Pillar Mining Approach: A Case Study. <i>Energies</i> , 2018, 11, 2853.	1.6	43
12	Development of New Three-Dimensional Rock Mass Strength Criteria. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3537-3561.	2.6	40
13	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
14	Effect of Dry-Wet Cycling on the Mechanical Properties of Rocks: A Laboratory-Scale Experimental Study. <i>Processes</i> , 2018, 6, 199.	1.3	36
15	Key Parameters of Roof Cutting of Gob-Side Entry Retaining in a Deep Inclined Thick Coal Seam with Hard Roof. <i>Energies</i> , 2019, 12, 934.	1.6	35
16	Research on reasonable coal pillar width of roadway driven along goaf in deep mine. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	0.6	34
17	A Novel True Triaxial Apparatus for Simulating Strain Bursts Under High Stress. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 759-775.	2.6	32
18	An experimental investigation on acoustic emission characteristics of sandstone rockburst with different moisture contents. <i>Science China Technological Sciences</i> , 2016, 59, 1549-1558.	2.0	28

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19	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
20	Test of a liquid directional roof-cutting technology for pressure-relief entry retaining mining. <i>Journal of Geophysics and Engineering</i> , 2019, 16, 620-638.	0.7	26
21	Slope stability evaluation and monitoring of Tonglushan ancient copper mine relics. <i>Advances in Mechanical Engineering</i> , 2018, 10, 168781401879170.	0.8	25
22	Deformation and failure processes of kaolinite under tension: Insights from molecular dynamics simulations. <i>Science China: Physics, Mechanics and Astronomy</i> , 2019, 62, 1.	2.0	22
23	Rock-Cutting Mechanics Model and Its Application Based on Slip-Line Theory. <i>International Journal of Geomechanics</i> , 2018, 18, .	1.3	20
24	Effect of Mg(II) and Na(I) Doping on the Electronic Structure and Mechanical Properties of Kaolinite. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 368.	0.8	19
25	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
26	Research on Non-Pillar Coal Mining for Thick and Hard Conglomerate Roof. <i>Energies</i> , 2021, 14, 299.	1.6	15
27	Numerical simulation of rockfalls colliding with a gravel cushion with varying thicknesses and particle sizes. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	15
28	Experimental study on the mechanism of pressure releasing control in deep coal mine roadways located in faulted zone. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, 1.	1.3	15
29	Research on Intelligent Comprehensive Evaluation of Coal Seam Impact Risk Based on BP Neural Network Model. <i>Energies</i> , 2022, 15, 3292.	1.6	14
30	Test Study on Multi Tray Bolt in Gob-Side Entry Retaining Formed by Roof Cut and Pressure Releasing. <i>Geotechnical and Geological Engineering</i> , 2017, 35, 2497-2506.	0.8	12
31	Effect of Water on Long-Term Strength of Column Rocks Based on Creep Behavior in Yungang Grottoes, China. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 173-183.	0.8	12
32	Study of An Innovative Approach of Roof Presplitting for Gob-Side Entry Retaining in Longwall Coal Mining. <i>Energies</i> , 2019, 12, 3316.	1.6	12
33	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
34	Stability characteristics of a fractured high roof under nonpillar mining with an automatically formed roadway by using a visualized discrimination approach. <i>Energy Science and Engineering</i> , 2020, 8, 1541-1553.	1.9	11
35	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
36	Atomic Structure, Electronic and Mechanical Properties of Pyrophyllite under Pressure: A First-Principles Study. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 778.	0.8	9

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37	Stress and deformation evolution characteristics of gob-side entry retained by the N00 mining method. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	9
38	Laboratory Testing and Modeling of a High-Displacement Cable Bolt. <i>International Journal of Geomechanics</i> , 2019, 19, 04019078.	1.3	8
39	Temperature effect on granite strain burst based on binocular stereovision technology. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	7
40	Study on Mechanical Properties of Roof Rocks with Different Cutting Inclinations. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 2397-2407.	0.8	7
41	Mechanism and Control Methods of Roof Deformations in Gob-Side Entry Retention by Roof Cutting Under Medium-Thick Coal Seams. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 265-282.	0.8	7
42	A Rockburst Proneness Evaluation Method Based on Multidimensional Cloud Model Improved by Control Variable Method and Rockburst Database. <i>Lithosphere</i> , 2022, 2021, .	0.6	7
43	Thermography analyses of rock fracture due to excavation and overloading for tunnel in 30° inclined strata. <i>Science China Technological Sciences</i> , 2017, 60, 911-923.	2.0	5
44	Mechanical Model and Control Technology of Roadside Gangues in Gob-Side Entry Retaining by Roof Cutting. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 849-860.	0.8	5
45	Rheological and mechanical properties of fibre-reinforced cemented paste and foam backfill. <i>International Journal of Mining, Reclamation and Environment</i> , 2021, 35, 488-505.	1.2	5
46	Research and Application of Open-Off Cut Roof Cutting Pressure Releasing Technology. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-14.	0.4	5
47	Study on Coupling Support Technique in the Roadway of Hecaogou No. 2 Coal Mine with Soft Roadway of Large Deformation. <i>Geotechnical and Geological Engineering</i> , 2017, 36, 1161.	0.8	4
48	Entry Deformation Law in the Full Life Cycle Under Entry Retaining with Roof Cutting. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 4365-4379.	0.8	4
49	Acoustic Emission Waveform Analysis of Sandstone Failure with Different Water Content. <i>Geofluids</i> , 2021, 2021, 1-10.	0.3	4
50	Study on Mining Pressure Law and Pressure Relief Control under Influence of Key Layer. <i>Mining, Metallurgy and Exploration</i> , 2021, 38, 1985-1996.	0.4	3
51	Dynamic Model and Mechanical Properties of the Two Parallel-Connected CRLD Bolts Verified with the Impact Tensile Test. <i>Mathematical Problems in Engineering</i> , 2018, 2018, 1-17.	0.6	2
52	Mechanical Effect Analysis and Comparative Site Tests on Surrounding Rock with Different Bolt Anchoring Lengths and Pre-tightening Forces. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 1195-1209.	0.8	2
53	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
54	Damage Constitutive Model of Microcrack Rock under Tension. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-10.	0.4	0

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55	Research and Application of Integrated Presplitting Blasting in Nonpillar Mining Technology. Shock and Vibration, 2022, 2022, 1-15.	0.3	0