

Zilong Zhou

List of Publications by Year in descending order

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81
papers

5,027
citations

101496

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81
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docs citations

81
times ranked

2738
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Axial Air Deck on Blast-Induced Ground Vibration. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 1037-1053.	2.6	18
2	A novel AE source localization method using clustering detection to eliminate abnormal arrivals. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 51-62.	4.6	14
3	The role of water content in rate dependence of tensile strength of a fine-grained sandstone. <i>Archives of Civil and Mechanical Engineering</i> , 2022, 22, 1.	1.9	20
4	Analysis of mechanical behaviour and fracture interaction of multi-hole rock mass with DIC measurement. <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 191, 110794.	2.5	17
5	Progressive destabilization and triggering mechanism analysis using multiple data for Chamoli rockslide of 7 February 2021. <i>Geomatics, Natural Hazards and Risk</i> , 2022, 13, 35-53.	2.0	16
6	Regressive and Big-Data-Based Analyses of Rock Drillability Based on Drilling Process Monitoring (DPM) Parameters. <i>Mathematics</i> , 2022, 10, 628.	1.1	6
7	Responses of Pre-Holed Granite under Coupled Biaxial Loading and Unloading Stress Condition. <i>Minerals (Basel, Switzerland)</i> , 2022, 12, 372.	0.8	2
8	A novel robust AE/MS source location method using optimized M-estimate consensus sample. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 779-791.	4.6	10
9	A New Algebraic Solution for Acoustic Emission Source Localization without Premeasuring Wave Velocity. <i>Sensors</i> , 2021, 21, 459.	2.1	10
10	Microscopic Failure Mechanism Analysis of Rock Under Dynamic Brazilian Test Based on Acoustic Emission and Moment Tensor Simulation. <i>Frontiers in Physics</i> , 2021, 8, .	1.0	6
11	Digital Image Processing Method for Characterization of Fractures, Fragments, and Particles of Soil/Rock-Like Materials. <i>Mathematics</i> , 2021, 9, 815.	1.1	14
12	Coupled Effects of Water and Low Temperature on Quasistatic and Dynamic Mechanical Behavior of Sandstone. <i>Geofluids</i> , 2021, 2021, 1-12.	0.3	6
13	A novel linear-correction localization method of acoustic emission source for velocity-free system. <i>Ultrasonics</i> , 2021, 115, 106458.	2.1	8
14	Bending and Buckling of Circular Sandwich Plates with a Hardened Core. <i>Materials</i> , 2021, 14, 4741.	1.3	2
15	Constrained total least squares method using TDOA measurements for jointly estimating acoustic emission source and wave velocity. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021, 182, 109758.	2.5	26
16	Effect of wetting-drying cycle on hydraulic and mechanical properties of cemented paste backfill of the recycled solid wastes. <i>Chemosphere</i> , 2021, 282, 131163.	4.2	77
17	Estimating Macrofracture Toughness of Sandstone Based on Nanoindentation. <i>Geofluids</i> , 2021, 2021, 1-10.	0.3	3
18	Rock mass watering for rock-burst prevention: some thoughts on the mechanisms deduced from laboratory results. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 8725-8743.	1.6	31

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19	Global Wave Velocity Change Measurement of Rock Material by Full-Waveform Correlation. <i>Sensors</i> , 2021, 21, 7429.	2.1	1
20	Dynamic Response and Energy Evolution of Sandstone Under Coupled Static-Dynamic Compression: Insights from Experimental Study into Deep Rock Engineering Applications. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 1305-1331.	2.6	204
21	Water saturation effects on dynamic behavior and microstructure damage of sandstone: Phenomena and mechanisms. <i>Engineering Geology</i> , 2020, 276, 105760.	2.9	106
22	Interval Nonprobabilistic Reliability Analysis for Ancient Landslide considering Strain-Softening Behavior: A Case Study. <i>Advances in Civil Engineering</i> , 2020, 2020, 1-13.	0.4	2
23	Prediction of water inflow from fault by particle swarm optimization-based modified grey models. <i>Environmental Science and Pollution Research</i> , 2020, 27, 42051-42063.	2.7	18
24	Static and dynamic tensile behavior of rock-concrete bi-material disc with different interface inclinations. <i>Construction and Building Materials</i> , 2020, 256, 119424.	3.2	51
25	A Weighted Linear Least Squares Location Method of an Acoustic Emission Source without Measuring Wave Velocity. <i>Sensors</i> , 2020, 20, 3191.	2.1	13
26	An Improved Onset Time Picking Method for Low SNR Acoustic Emission Signals. <i>IEEE Access</i> , 2020, 8, 47756-47767.	2.6	9
27	Water Saturation Effects on Thermal Infrared Radiation Features of Rock Materials During Deformation and Fracturing. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4839-4856.	2.6	68
28	Permeability Experiment of Fractured Rock with Rough Surfaces under Different Stress Conditions. <i>Geofluids</i> , 2020, 2020, 1-15.	0.3	5
29	A Closed-Form Method of Acoustic Emission Source Location for Velocity-Free System Using Complete TDOA Measurements. <i>Sensors</i> , 2020, 20, 3553.	2.1	11
30	Water Infusion on the Stability of Coal Specimen under Different Static Stress Conditions. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 2043.	1.3	4
31	Water-induced variations in dynamic behavior and failure characteristics of sandstone subjected to simulated geo-stress. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 130, 104339.	2.6	77
32	Fracture behavior and damage mechanisms of sandstone subjected to wetting-drying cycles. <i>Engineering Fracture Mechanics</i> , 2020, 234, 107109.	2.0	85
33	Permeability Evolution of Fractured Rock Subjected to Cyclic Axial Load Conditions. <i>Geofluids</i> , 2020, 2020, 1-12.	0.3	8
34	Micromechanism of the diffusion of cement-based grouts in porous media under two hydraulic operating conditions: constant flow rate and constant pressure. <i>Acta Geotechnica</i> , 2019, 14, 825-841.	2.9	28
35	Effects of seepage-induced erosion on nonlinear hydraulic properties of broken red sandstones. <i>Tunnelling and Underground Space Technology</i> , 2019, 91, 102993.	3.0	168
36	Risk assessment for the cascading failure of underground pillar sections considering interaction between pillars. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 124, 104142.	2.6	19

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37	A New Acoustic Emission Source Location Method Using Tri-Variate Kernel Density Estimator. IEEE Access, 2019, 7, 158379-158388.	2.6	16
38	Water-Weakening Effects on the Mechanical Behavior of Different Rock Types: Phenomena and Mechanisms. Applied Sciences (Switzerland), 2019, 9, 4450.	1.3	98
39	Effects of height/diameter ratio on failure and damage properties of granite under coupled bending and splitting deformation. Engineering Fracture Mechanics, 2019, 220, 106640.	2.0	105
40	Mechanical properties and fracture evolution of sandstone specimens containing different inclusions under uniaxial compression. International Journal of Rock Mechanics and Minings Sciences, 2019, 115, 33-47.	2.6	163
41	An Improved Automatic Picking Method for Arrival Time of Acoustic Emission Signals. IEEE Access, 2019, 7, 75568-75576.	2.6	20
42	Numerical Simulations of Fracture Propagation in Jointed Shale Reservoirs under CO ₂ Fracturing. Geofluids, 2019, 2019, 1-13.	0.3	6
43	Strength and filtration stability of cement grouts in porous media. Tunnelling and Underground Space Technology, 2019, 89, 1-9.	3.0	37
44	Comparison of Presplit and Smooth Blasting Methods for Excavation of Rock Wells. Shock and Vibration, 2019, 2019, 1-12.	0.3	13
45	The role of gangue on the mitigation of mining-induced hazards and environmental pollution: An experimental investigation. Science of the Total Environment, 2019, 664, 436-448.	3.9	178
46	Damage Evolution and Failure Behavior of Post-Mainshock Damaged Rocks under Aftershock Effects. Energies, 2019, 12, 4429.	1.6	28
47	Water saturation effects on dynamic fracture behavior of sandstone. International Journal of Rock Mechanics and Minings Sciences, 2019, 114, 46-61.	2.6	152
48	Failure Propagation of Pillars and Roof in a Room and Pillar Mine Induced by Longwall Mining in the Lower Seam. Rock Mechanics and Rock Engineering, 2019, 52, 1193-1209.	2.6	41
49	Experimental Investigation of the Progressive Failure of Multiple Pillar-Roof System. Rock Mechanics and Rock Engineering, 2018, 51, 1629-1636.	2.6	47
50	Locating an Acoustic Emission Source in Multilayered Media Based on the Refraction Path Method. IEEE Access, 2018, 6, 25090-25099.	2.6	27
51	Effects of water content on fracture and mechanical behavior of sandstone with a low clay mineral content. Engineering Fracture Mechanics, 2018, 193, 47-65.	2.0	175
52	3-D direct current resistivity anisotropic modelling by goal-oriented adaptive finite element methods. Geophysical Journal International, 2018, 212, 76-87.	1.0	24
53	Strength for Modified Polyurethane with Modified Sand. Geotechnical and Geological Engineering, 2018, 36, 1897-1906.	0.8	6
54	Analysis and engineering application investigation of multiple-hole grouting injections into porous media considering filtration effects. Construction and Building Materials, 2018, 186, 871-883.	3.2	22

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55	Experimental Investigation on Hydraulic Properties of Granular Sandstone and Mudstone Mixtures. <i>Geofluids</i> , 2018, 2018, 1-13.	0.3	38
56	Discrimination of Rock Fracture and Blast Events Based on Signal Complexity and Machine Learning. <i>Shock and Vibration</i> , 2018, 2018, 1-10.	0.3	10
57	Dynamic tensile properties of sandstone subjected to wetting and drying cycles. <i>Construction and Building Materials</i> , 2018, 182, 215-232.	3.2	161
58	Filtration Behaviour of Cement-Based Grout in Porous Media. <i>Transport in Porous Media</i> , 2018, 125, 435-463.	1.2	18
59	A New Closed-Form Solution for Acoustic Emission Source Location in the Presence of Outliers. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 949.	1.3	18
60	Dynamic Response of Pillar Workings Induced by Sudden Pillar Recovery. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3075-3090.	2.6	39
61	Nitrogen-Doped Yolk-Shell-Structured CoSe/C Dodecahedra for High-Performance Sodium Ion Batteries. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3624-3633.	4.0	244
62	Influence of cyclic wetting and drying on physical and dynamic compressive properties of sandstone. <i>Engineering Geology</i> , 2017, 220, 1-12.	2.9	163
63	Self-templated synthesis of N-doped CoSe ₂ /C double-shelled dodecahedra for high-performance supercapacitors. <i>Energy Storage Materials</i> , 2017, 8, 28-34.	9.5	107
64	Fracture analysis of marble specimens with a hole under uniaxial compression by digital image correlation. <i>Engineering Fracture Mechanics</i> , 2017, 183, 109-124.	2.0	176
65	Fracture evolution and failure behaviour of marble specimens containing rectangular cavities under uniaxial loading. <i>Engineering Fracture Mechanics</i> , 2017, 184, 183-201.	2.0	71
66	Failure mechanism and coupled static-dynamic loading theory in deep hard rock mining: A review. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2017, 9, 767-782.	3.7	305
67	Experimental and Numerical Investigation on the Bearing and Failure Mechanism of Multiple Pillars Under Overburden. <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 995-1010.	2.6	39
68	Interval Non-Probabilistic Reliability of a Surrounding Jointed Rockmass in Underground Engineering: A Case Study. <i>IEEE Access</i> , 2017, 5, 18804-18817.	2.6	22
69	Grain Size Distribution Effect on the Hydraulic Properties of Disintegrated Coal Mixtures. <i>Energies</i> , 2017, 10, 612.	1.6	29
70	Quantitative Evaluation and Case Study of Risk Degree for Underground Goafs with Multiple Indexes considering Uncertain Factors in Mines. <i>Geofluids</i> , 2017, 2017, 1-15.	0.3	18
71	Dynamic Fracturing Behavior of Layered Rock with Different Inclination Angles in SHPB Tests. <i>Shock and Vibration</i> , 2017, 2017, 1-12.	0.3	15
72	Influence of Water Content on Mechanical Properties of Rock in Both Saturation and Drying Processes. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3009-3025.	2.6	216

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73	Influence of unloading disturbance on adjacent tunnels. International Journal of Rock Mechanics and Minings Sciences, 2016, 84, 10-24.	2.6	59
74	Vibrations induced by high initial stress release during underground excavations. Tunnelling and Underground Space Technology, 2016, 53, 78-95.	3.0	71
75	Dynamic Brazilian Tests of Granite Under Coupled Static and Dynamic Loads. Rock Mechanics and Rock Engineering, 2014, 47, 495-505.	2.6	111
76	Influence of stress path on excavation unloading response. Tunnelling and Underground Space Technology, 2014, 42, 237-246.	3.0	123
77	Numerical Simulation of the Rock SHPB Test with a Special Shape Striker Based on the Discrete Element Method. Rock Mechanics and Rock Engineering, 2014, 47, 1693-1709.	2.6	152
78	Stress uniformity of split Hopkinson pressure bar under half-sine wave loads. International Journal of Rock Mechanics and Minings Sciences, 2011, 48, 697-701.	2.6	66
79	Obtaining Constitutive Relationship for Rate-Dependent Rock in SHPB Tests. Rock Mechanics and Rock Engineering, 2010, 43, 697-706.	2.6	88
80	Stress uniformity process of specimens in SHPB test under different loading conditions of rectangular and half-sine input waves. Transactions of Tianjin University, 2008, 14, 450-456.	3.3	7
81	Innovative testing technique of rock subjected to coupled static and dynamic loads. International Journal of Rock Mechanics and Minings Sciences, 2008, 45, 739-748.	2.6	340