

Shunchuan Wu

List of Publications by Year in descending order

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56
papers

1,282
citations

394286

19
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57
all docs

57
docs citations

57
times ranked

865
citing authors

#	ARTICLE	IF	CITATIONS
1	A Study of Three Intrinsic Problems of the Classic Discrete Element Method Using Flat-Joint Model. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1813-1830.	2.6	197
2	Acoustic emission characteristics of the rock-like material containing a single flaw under different compressive loading rates. <i>Computers and Geotechnics</i> , 2017, 83, 83-97.	2.3	157
3	Crack coalescence between two non-parallel flaws in rock-like material under uniaxial compression. <i>Engineering Geology</i> , 2015, 199, 74-90.	2.9	136
4	Effects of Micro-structure and Micro-parameters on Brazilian Tensile Strength Using Flat-Joint Model. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3575-3595.	2.6	78
5	AEnet: Automatic Picking of P-Wave First Arrivals Using Deep Learning. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5293-5303.	2.7	44
6	Acoustic Emission Associated with Self-Sustaining Failure in Low-Porosity Sandstone Under Uniaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2067-2085.	2.6	39
7	Experimental and numerical investigation of the punch-through shear test for mode II fracture toughness determination in rock. <i>Engineering Fracture Mechanics</i> , 2017, 184, 59-74.	2.0	32
8	Review of the Relationships between Crack Initiation Stress, Mode I Fracture Toughness and Tensile Strength of Geo-Materials. <i>International Journal of Geomechanics</i> , 2018, 18, 04018136.	1.3	28
9	A generalized nonlinear failure criterion for frictional materials. <i>Acta Geotechnica</i> , 2017, 12, 1353-1371.	2.9	27
10	Numerical analysis of the flattened Brazilian test: Failure process, recommended geometric parameters and loading conditions. <i>Engineering Fracture Mechanics</i> , 2018, 204, 288-305.	2.0	27
11	Study on the deformation and strength characteristics of hard rock under true triaxial stress state using bonded-particle model. <i>Computers and Geotechnics</i> , 2019, 112, 1-16.	2.3	27
12	Three-dimensional evolution of damage in sandstone Brazilian discs by the concurrent use of active and passive ultrasonic techniques. <i>Acta Geotechnica</i> , 2020, 15, 393-408.	2.9	27
13	Confirmation of the upside-down drop shape theory in gravity flow and development of a new empirical equation to calculate the shape. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2017, 92, 91-98.	2.6	25
14	Experimental and numerical study of failure characteristics of brittle rocks with single internal 3D open-type flaw. <i>Acta Geotechnica</i> , 2021, 16, 3087-3113.	2.9	25
15	Effects of thermally-induced cracks on acoustic emission characteristics of granite under tensile conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 144, 104820.	2.6	25
16	Three-dimensional strength estimation of intact rocks using a modified Hoek-Brown criterion based on a new deviatoric function. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 107, 181-190.	2.6	24
17	Numerical study on spalling failure of rock surrounding deep buried tunnel based on DEM. <i>Computers and Geotechnics</i> , 2022, 145, 104653.	2.3	24
18	Strength and deformability of a low-porosity sandstone under true triaxial compression conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 127, 104204.	2.6	23

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19	Modeling acoustic emission in the Brazilian test using moment tensor inversion. <i>Computers and Geotechnics</i> , 2020, 123, 103567.	2.3	22
20	A study of crack initiation and source mechanism in the Brazilian test based on moment tensor. <i>Engineering Fracture Mechanics</i> , 2021, 246, 107622.	2.0	22
21	Influence of different concealment conditions of parallel double flaws on mechanical properties and failure characteristics of brittle rock under uniaxial compression. <i>Theoretical and Applied Fracture Mechanics</i> , 2020, 109, 102751.	2.1	22
22	Effects of 2D&3D nonparallel flaws on failure characteristics of brittle rock-like samples under uniaxial compression: Insights from acoustic emission and DIC monitoring. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 120, 103391.	2.1	20
23	A study on the draw laws of caved ore and rock using the discrete element method. <i>Computers and Geotechnics</i> , 2016, 80, 59-70.	2.3	17
24	Macro and meso research on the zonal disintegration phenomenon and the mechanism of deep brittle rock mass. <i>Engineering Fracture Mechanics</i> , 2019, 211, 254-268.	2.0	16
25	Accurate moment tensor inversion of acoustic emissions and its application to Brazilian splitting test. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 141, 104707.	2.6	15
26	Preparation and characterization of the one-piece wall ceramic board by using solid wastes. <i>Ceramics International</i> , 2017, 43, 8564-8571.	2.3	14
27	A Study of Gravity Flow Based on the Upside-Down Drop Shape Theory and Considering Rock Shape and Breakage. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 881-893.	2.6	13
28	Subgrade Stability Evaluation in Permafrost Regions Based on Unascertained Measurement Model. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 707-719.	0.8	12
29	Study on mode I fracture toughness of rocks using flat-joint model and moment tensor. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 120, 103403.	2.1	12
30	Mechanical Behavior of a Granite from Wuyi Mountain: Insights from Strain-Based Approaches. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 719-736.	2.6	11
31	Experimental and Numerical Studies of Brittle Rock-Like Samples with Internal Open Fractures and Cavities Under Uniaxial Compression. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 8349-8368.	1.7	11
32	Prediction of Uniaxial Compressive Strength of Rock Via Genetic Algorithm&Selective Ensemble Learning. <i>Natural Resources Research</i> , 2022, 31, 1721-1737.	2.2	11
33	Stress analytical solution for plane problem of a double-layered thick-walled cylinder subjected to a type of non-uniform distributed pressure. <i>Journal of Central South University</i> , 2014, 21, 2074-2082.	1.2	9
34	Study on the limit equilibrium slice method considering characteristics of inter-slice normal forces distribution: the improved Spencer method. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	9
35	Review of geomechanical similar-material test systems. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	9
36	Discussion and application of a risk assessment method for spalling damage in a deep hard-rock tunnel. <i>Computers and Geotechnics</i> , 2020, 124, 103632.	2.3	9

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37	Using the Point Load Test to Analyze the Strength Anisotropy of Quartz Mica Schist Along an Exploration Adit. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 1967-1975.	2.6	8
38	The evolution regularity and influence factor analysis of zonal disintegration around deep jointed rock mass: a numerical study based on DEM. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	1.6	7
39	Failure mechanism of brittle rock with 3D parallel preset flaws based on the particle displacement trend method. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 117, 103193.	2.1	6
40	Hybrid Finite-Discrete Element Modelling of Various Rock Fracture Modes during Three Conventional Bending Tests. <i>Sustainability</i> , 2022, 14, 592.	1.6	5
41	Optimum size and density of surface grid arrays for retrieving accurate shear-tensile fracturing of microearthquakes. <i>Geophysical Prospecting</i> , 2020, 68, 2347-2360.	1.0	4
42	A Numerical Based Approach to Calculate Ore Dilution Rates Using Rolling Resistance Model and Upside-Down Drop Shape Theory. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4639-4652.	2.6	4
43	Use of SAR interferometry for monitoring illegal mining activities: A case study at Xishimen Iron Ore Mine. <i>Mining Science and Technology</i> , 2011, 21, 781-786.	0.3	3
44	Interaction effects and an optimization study of the microparameters of the flat-joint model using the Plackett-Burman design and response surface methodology. <i>Arabian Journal of Geosciences</i> , 2020, 13, 1.	0.6	3
45	Experimental and Theoretical Study of Failure Characteristics of Rock Containing Single 3D Internal Open-Type Flaws. <i>Arabian Journal for Science and Engineering</i> , 2021, 46, 5071-5088.	1.7	3
46	Study on Evolution Mechanism of Structure-Type Rockburst: Insights from Discrete Element Modeling. <i>Sustainability</i> , 2021, 13, 8036.	1.6	3
47	Effect of grain sorting, mineralogy and cementation attributes on the localized deformation in porous rocks: A numerical study. <i>Tectonophysics</i> , 2021, 817, 229041.	0.9	3
48	Response of Floc Networks in Cemented Paste Backfill to a Pumping Agent. <i>Metals</i> , 2021, 11, 1906.	1.0	3
49	Rotation and deflection of 3D principal stress axes induced by a prefabricated single flaw in sandstone: A numerical investigation based on DEM. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 120, 103430.	2.1	3
50	A time-field search method for AE source location with a regional velocity model. <i>Acta Geophysica</i> , 2020, 68, 1335-1344.	1.0	2
51	Optimization of Measuring Points Layout around a Tunnel in the Transversely Isotropic Rock Mass. <i>Shock and Vibration</i> , 2021, 2021, 1-10.	0.3	2
52	Numerical simulation of micro-cracking and energy budget in porous rocks under contractional regimes across the brittle-ductile transition. <i>Journal of Structural Geology</i> , 2021, 148, 104376.	1.0	2
53	Complex Analytical Study of the Stability of Tunnel-Surrounding Rock in a Layered Jointed Rock Mass. <i>Mathematical Problems in Engineering</i> , 2020, 2020, 1-15.	0.6	1
54	Role of pore attribute in the localized deformation of granular rocks: A numerical study. <i>Tectonophysics</i> , 2021, 821, 229147.	0.9	1

#	ARTICLE	IF	CITATIONS
55	Analytic solution for surrounding rock mass deformation of circular tunnels based on three-parameter unified strength theory. , 2011, , .		0
56	Failure characteristics of brittle rock-like specimen with fractured internal structure under uniaxial compression. Arabian Journal of Geosciences, 2020, 13, 1.	0.6	0