Ri-hong Cao

List of Publications by Year
in descending order

47	1,906	218592	254106
papers	citations	26 h-index	43 g-index

47	47	47	910
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Comparative Analysis of Rock Damage Models Based on Different Distribution Functions. Geotechnical and Geological Engineering, 2022, 40, 301-310.	0.8	12
2	Experimental investigation of plane shear fracture characteristics of sandstone after cyclic freezeâ€“thaw treatments. Theoretical and Applied Fracture Mechanics, 2022, 118, 103214.	2.1	20
3	Shear expression derivation and parameter evaluation of Hoekâ€“Brown criterion. Archives of Civil and Mechanical Engineering, 2022, 22, 1.	1.9	10
4	Failure and mechanical behavior of transversely isotropic rock under compression-shear tests: Laboratory testing and numerical simulation. Engineering Fracture Mechanics, 2021, 241, 107389.	2.0	51
5	Slope Stability Analysis Considering Different Contributions of Shear Strength Parameters. International Journal of Geomechanics, 2021, 21, .	1.3	30
6	Influence of the Micro-deformation Characteristics of Binary Media on the Shear Behavior of Structural Plane. Geotechnical and Geological Engineering, 2021, 39, 347-358.	0.8	1
7	Cloud model-clustering analysis based evaluation for ventilation system of underground metal mine in alpine region. Journal of Central South University, 2021, 28, 796-815.	1.2	19
8	Investigation of the correlation between crack propagation process and the peak strength for the specimen containing a single pre-existing flaw made of rock-like material. Archives of Civil and Mechanical Engineering, 2021, 21, 1.	1.9	25
9	A Damage Constitutive Model of Rock Subjected to Freeze-Thaw Cycles Based on Lognormal Distribution. Advances in Civil Engineering, 2021, 2021, 1-8.	0.4	4
10	Size Effect and Anisotropy in a Transversely Isotropic Rock Under Compressive Conditions. Rock Mechanics and Rock Engineering, 2021, 54, 4639-4662.	2.6	37
11	Mechanical behaviour of a jointed rock mass with a circular hole under compression-shear loading: Experimental and numerical studies. Theoretical and Applied Fracture Mechanics, 2021, 114, 102998.	2.1	39
12	Effects of cyclic freeze-thaw treatments on the fracture characteristics of sandstone under different fracture modes: Laboratory testing. Theoretical and Applied Fracture Mechanics, 2020, 109, 102738.	2.1	66
13	Nonlinear shear constitutive model for peak shear-type joints based on improved Harris damage function. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	39
14	Modified Double-Reduction Method considering Strain Softening and Equivalent Influence Angle. KSCE Journal of Civil Engineering, 2020, 24, 3257-3266.	0.9	8
15	Fatigue behaviour and constitutive model of yellow sandstone containing pre-existing surface crack under uniaxial cyclic loading. Theoretical and Applied Fracture Mechanics, 2020, 109, 102776.	2.1	32
16	Failure mechanism of non-persistent jointed rock-like specimens under uniaxial loading: Laboratory testing. International Journal of Rock Mechanics and Minings Sciences, 2020, 132, 104341.	2.6	78
17	Improved nonlinear Burgers shear creep model based on the time-dependent shear strength for rock. Environmental Earth Sciences, 2020, 79, 1.	1.3	66
18	Mechanical behavior around double circular openings in a jointed rock mass under uniaxial compression. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	73

#	Article	IF	Citations
19	Strength and failure characteristics of jointed rock mass with double circular holes under uniaxial compression: Insights from discrete element method modelling. Theoretical and Applied Fracture Mechanics, 2020, 109, 102692.	2.1	79
20	Statistical Damage Shear Constitutive Model of Rock Joints Under Seepage Pressure. Frontiers in Earth Science, 2020, 8, .	0.8	13
21	Shear Resistance of Rock Joint under Nonuniform Normal Stress. Advances in Materials Science and Engineering, 2020, 2020, 1-8.	1.0	3
22	The influence of temperature and time on water-rock interactions based on the morphology of rock joint surfaces. Bulletin of Engineering Geology and the Environment, 2019, 78, 3385-3394.	1.6	23
23	Damage and Fracture Behavior of Rock. Advances in Civil Engineering, 2019, 2019, 1-3.	0.4	1
24	Determination of the stress field and crack initiation angle of an open flaw tip under uniaxial compression. Theoretical and Applied Fracture Mechanics, 2019, 104, 102358.	2.1	123
25	The stability and roof-support optimization of roadways passing through unfavorable geological bodies using advanced detection and monitoring methods, among others, in the Sanmenxia Bauxite Mine in Chinaâ€™s Henan Province. Bulletin of Engineering Geology and the Environment, 2019, 78, 5087-5099.	1.6	68
26	Acoustic Emission Characteristics During Rock Fragmentation Processes Induced by Disc Cutter under Different Water Content Conditions. Applied Sciences (Switzerland), 2019, 9, 194.	1.3	16
27	Crack Initiation, Propagation, and Failure Characteristics of Jointed Rock or Rock-Like Specimens: A Review. Advances in Civil Engineering, 2019, 2019, 1-31.	0.4	31
28	Effect of Cyclic Freezing-Thawing on the Shear Mechanical Characteristics of Nonpersistent Joints. Advances in Materials Science and Engineering, 2019, 2019, 1-14.	1.0	29
29	Secondâ€order cone programming formulation of discontinuous deformation analysis. International Journal for Numerical Methods in Engineering, 2019, 118, 243-257.	1.5	27
30	Numerical analysis of the compressive and shear failure behavior of rock containing multi-intermittent joints. Comptes Rendus - Mecanique, 2019, 347, 33-48.	2.1	32
31	Bending Properties of Granite Beams with Various Section-Sizes in Three-Point Bending Tests. Geotechnical and Geological Engineering, 2019, 37, 1-11.	0.8	24
32	Experimental study on acoustic emission characteristics of jointed rock mass by double disc cutter. Journal of Central South University, 2018, 25, 357-367.	1.2	24
33	Failure characteristics of jointed rock-like material containing multi-joints under a compressive-shear test: Experimental and numerical analyses. Archives of Civil and Mechanical Engineering, 2018, 18, 784-798.	1.9	52
34	Failure characteristics of intermittent fissures under a compressive-shear test: Experimental and numerical analyses. Theoretical and Applied Fracture Mechanics, 2018, 96, 740-757.	2.1	67
35	Mechanical behavior of an opening in a jointed rock-like specimen under uniaxial loading: Experimental studies and particle mechanics approach. Archives of Civil and Mechanical Engineering, 2018, 18, 198-214.	1.9	66
36	Numerical Analysis for the Progressive Failure of Binary-Medium Interface under Shearing. Advances in Civil Engineering, 2018, 2018, 1-11.	0.4	5

#	Article	IF	Citations
37	An Experimental Study on Cracking Behavior of Precracked Sandstone Specimens under Seepage Pressure. Advances in Civil Engineering, 2018, 2018, 1-10.	0.4	7
38	Experimental investigation of jointed rock breaking under a disc cutter with different confining stresses. Comptes Rendus - Mecanique, 2018, 346, 833-843.	2.1	27
39	Internal stress distribution and cracking around flaws and openings of rock block under uniaxial compression: A particle mechanics approach. Computers and Geotechnics, 2018, 102, 28-38.	2.3	109
40	A kind of control technology for squeezing failure in deep roadways: a case study. Geomatics, Natural Hazards and Risk, 2017, 8, 1715-1729.	2.0	16
41	An Experimental Study of Dependence of Optimum TBM Cutter Spacing on Pre-set Penetration Depth in Sandstone Fragmentation. Rock Mechanics and Rock Engineering, 2017, 50, 3209-3221.	2.6	28
42	Experimental and Numerical Study of Failure Behavior and Energy Mechanics of Rock-Like Materials Containing Multiple Joints. Advances in Materials Science and Engineering, 2017, 2017, 1-17.	1.0	14
43	Experimental and numerical study of the failure process and energy mechanisms of rock-like materials containing cross un-persistent joints under uniaxial compression. PLoS ONE, 2017, 12, e0188646.	1.1	27
44	Mechanical Behavior of Brittle Rock-Like Specimens with Pre-existing Fissures Under Uniaxial Loading: Experimental Studies and Particle Mechanics Approach. Rock Mechanics and Rock Engineering, 2016, 49, 763-783.	2.6	224
45	An Experimental and Numerical Study on Mechanical Behavior of Ubiquitous-Joint Brittle Rock-Like Specimens Under Uniaxial Compression. Rock Mechanics and Rock Engineering, 2016, 49, 4319-4338.	2.6	110
46	Numerical simulations of the effect of bolt inclination on the shear strength of rock joints. International Journal of Rock Mechanics and Minings Sciences, 2014, 66, 49-56.	2.6	40
47	Numerical simulation on effects of embedded crack on rock fragmentation by a tunnel boring machine cutter. Journal of Central South University, 2014, 21, 3302-3308.	1.2	11