

Jianping Zuo

List of Publications by Year in descending order

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78
papers

1,689
citations

279798

23
h-index

315739

38
g-index

78
all docs

78
docs citations

78
times ranked

1125
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of thermal treatment on fracture characteristics of granite from Beishan, a possible high-level radioactive waste disposal site in China. <i>Engineering Fracture Mechanics</i> , 2017, 182, 425-437.	4.3	105
2	Investigation of movement and damage of integral overburden during shallow coal seam mining. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 117, 63-75.	5.8	79
3	Macro/meso failure behavior of surrounding rock in deep roadway and its control technology. <i>International Journal of Coal Science and Technology</i> , 2019, 6, 301-319.	6.0	78
4	Three-point bending test investigation of the fracture behavior of siltstone after thermal treatment. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 70, 133-143.	5.8	77
5	Investigation of karst collapse based on 3-D seismic technique and DDA method at Xieqiao coal mine, China. <i>International Journal of Coal Geology</i> , 2009, 78, 276-287.	5.0	76
6	Deformation failure characteristics of coal-rock combined body under uniaxial compression: experimental and numerical investigations. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 3449-3464.	3.5	73
7	A nonlinear strength criterion for rock-like materials based on fracture mechanics. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2008, 45, 594-599.	5.8	68
8	The effects of thermal treatments on the subcritical crack growth of Pingdingshan sandstone at elevated high temperatures. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 3439-3454.	5.4	58
9	A theoretical derivation of the Hoek-Brown failure criterion for rock materials. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015, 7, 361-366.	8.1	56
10	Structural responses and treatments of shield tunnel due to leakage: A case study. <i>Tunnelling and Underground Space Technology</i> , 2020, 103, 103471.	6.2	49
11	Mesoscale fracture behavior of Longmaxi outcrop shale with different bedding angles: Experimental and numerical investigations. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 297-309.	8.1	49
12	A New Theoretical Method to Predict Strata Movement and Surface Subsidence due to Inclined Coal Seam Mining. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 2723-2740.	5.4	46
13	Investigation on fracture toughness and micro-deformation field of SCB sandstone including different inclination angles cracks. <i>Engineering Fracture Mechanics</i> , 2019, 208, 27-37.	4.3	40
14	The Evolution of Cracks in Maluanshan Granite Subjected to Different Temperature Processing. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 1683-1695.	5.4	38
15	Experimental study of the ultrasonic and mechanical properties of a naturally fractured limestone. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 125, 104162.	5.8	37
16	Experimental and theoretical investigation on mechanisms performance of the rock-coal-bolt (RCB) composite system. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 759-768.	10.3	37
17	SEM in-situ study on the effect of offset-notch on basalt cracking behavior under three-point bending load. <i>Engineering Fracture Mechanics</i> , 2014, 131, 504-513.	4.3	35
18	Thermal-mechanical coupled effect on fracture mechanism and plastic characteristics of sandstone. <i>Science in China Series D: Earth Sciences</i> , 2007, 50, 833-843.	0.9	33

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19	Meso-fracture mechanism and its fracture toughness analysis of Longmaxi shale including different angles by means of M-SENB tests. <i>Engineering Fracture Mechanics</i> , 2019, 215, 178-192.	4.3	30
20	A Novel Method for Predicting Movement and Damage of Overburden Caused by Shallow Coal Mining. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 1545-1563.	5.4	29
21	The effects of thermal treatments on the fatigue crack growth of Beishan granite: an in situ observation study. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 1541-1555.	3.5	28
22	Experimental and numerical investigation on shale fracture behavior with different bedding properties. <i>Engineering Fracture Mechanics</i> , 2021, 247, 107639.	4.3	27
23	Experimental study of the effect of depth on mechanical parameters of rock. <i>Chinese Science Bulletin</i> , 2010, 55, 3276-3284.	0.7	26
24	Evaluating the mechanical properties of anisotropic shale containing bedding and natural fractures with discrete element modeling. <i>International Journal of Coal Science and Technology</i> , 2022, 9, 1.	6.0	26
25	Crack evolution behavior of rocks under confining pressures and its propagation model before peak stress. <i>Journal of Central South University</i> , 2019, 26, 3045-3056.	3.0	25
26	Experimental Investigation on Mechanical and Acoustic Parameters of Different Depth Shale Under The Effect of Confining Pressure. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4273-4286.	5.4	24
27	Experimental investigation on rockburst behavior of the rock-coal-bolt specimen under different stress conditions. <i>Scientific Reports</i> , 2020, 10, 7556.	3.3	23
28	Investigation of meso-failure behavior of rock under thermal-mechanical coupled effects based on high temperature SEM. <i>Science China: Physics, Mechanics and Astronomy</i> , 2012, 55, 1855-1862.	5.1	22
29	Stress-strain behaviour of hybrid-fibre engineered cementitious composite in compression. <i>Advances in Cement Research</i> , 2020, 32, 53-65.	1.6	22
30	Experimental and numerical study on short eccentric columns strengthened by textile-reinforced concrete under sustaining load. <i>Journal of Reinforced Plastics and Composites</i> , 2017, 36, 1712-1726.	3.1	21
31	Full-field mapping of internal strain distribution in red sandstone specimen under compression using digital volumetric speckle photography and X-ray computed tomography. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015, 7, 136-146.	8.1	20
32	Fracture Development at Laminated Floor Layers Under Longwall Face in Deep Coal Mining. <i>Natural Resources Research</i> , 2020, 29, 3857-3871.	4.7	20
33	Investigation of meso-failure behaviors of Jinping marble using SEM with bending loading system. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2015, 7, 593-599.	8.1	19
34	Thermo coupled effects on cracking behaviors and reliability analysis of double-notched crustal rocks. <i>Engineering Fracture Mechanics</i> , 2016, 158, 106-115.	4.3	19
35	Rock Strata Failure Behavior of Deep Ordovician Limestone Aquifer and Multi-level Control Technology of Water Inrush Based on Microseismic Monitoring and Numerical Methods. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4591-4614.	5.4	18
36	Rock strata movement and subsidence based on MDDA, an improved discontinuous deformation analysis method in mining engineering. <i>Arabian Journal of Geosciences</i> , 2017, 10, 1.	1.3	15

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37	Effect of Triaxial Loading and Unloading on Crack Propagation and Damage Behaviors of Sandstone: An Experimental Study. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 6077-6090.	5.4	15
38	Recyclable and superior selective CO ₂ adsorption of C ₄ B ₃₂ and Ca@C ₄ B ₃₂ : a new category of perfect cubic heteroborospherenes. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 15541-15550.	2.8	14
39	Effect of cyclic loading on mechanical and ultrasonic properties of granite from Maluanshan Tunnel. <i>Bulletin of Engineering Geology and the Environment</i> , 2020, 79, 299-311.	3.5	14
40	Meso-fracture mechanism of Longmaxi shale with different crack-depth ratios: Experimental and numerical investigations. <i>Engineering Fracture Mechanics</i> , 2021, 257, 108025.	4.3	14
41	Deformation and fracture at floor area and the correlation with main roof breakage in deep longwall mining. <i>Natural Hazards</i> , 2021, 107, 1731-1755.	3.4	13
42	Evaluation of the fracture mechanisms and criteria of bedding shale based on three-point bending experiment. <i>Engineering Fracture Mechanics</i> , 2021, 255, 107913.	4.3	13
43	Experimental Investigation of Wave Velocity-Permeability Model for Granite Subjected to Different Temperature Processing. <i>Geofluids</i> , 2017, 2017, 1-10.	0.7	12
44	Mechanism of Structural Damage in Low Permeability Coal Material of Coalbed Methane Reservoir under Cyclic Cold Loading. <i>Energies</i> , 2020, 13, 519.	3.1	12
45	A novel fractal characteristic method on the surface morphology of polythiophene films with self-organized nanostructure. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2005, 28, 7-13.	2.7	10
46	Stress-Strain Properties and Gas Permeability Evolution of Hybrid Fiber Engineered Cementitious Composites in the Process of Compression. <i>Materials</i> , 2019, 12, 1382.	2.9	10
47	A Study of Fractal Deep-Hole Blasting and Its Induced Stress Behavior of Hard Roof Strata in Bayangaole Coal Mine, China. <i>Advances in Civil Engineering</i> , 2019, 2019, 1-14.	0.7	10
48	Study on large deformation mechanism and concrete-filled steel tubular support technology for ventilation shaft roadway. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 6245-6262.	3.5	9
49	Experimental verification of parameter m in Hoek-Brown failure criterion considering the effects of natural fractures. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2020, 12, 1036-1045.	8.1	7
50	Experimental and numerical investigation of microstructure effect on the mechanical behavior and failure process of brittle rocks. <i>Computers and Geotechnics</i> , 2020, 125, 103639.	4.7	7
51	Strata Movement Model of Filling Coal Mining Based on Two-Parameter Elastic Foundation. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 3631-3641.	1.7	7
52	Physically simulating the effect of lateral vapor source-building separation on soil vapor intrusion: Influences of surface pavements and soil heterogeneity. <i>Journal of Contaminant Hydrology</i> , 2020, 235, 103712.	3.3	7
53	A gas-mechanical coupled constitutive equation for fractured coal containing gas. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 1109-1119.	4.4	6
54	Investigation on failure behavior of collapse column in China's coal mine based on discontinuous deformation numerical method. <i>PLoS ONE</i> , 2019, 14, e0219733.	2.5	6

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55	An examination of the building pressure cycling technique as a tool in vapor intrusion investigations with analytical simulations. <i>Journal of Hazardous Materials</i> , 2020, 389, 121915.	12.4	6
56	Measuring Micro/Meso Deformation Field of Geo-Materials with SEM and Digital Image Correlation Method. <i>Advanced Science Letters</i> , 2011, 4, 1556-1560.	0.2	6
57	Tension and Shear Cracks Growth-Based Evolution Model for Creep Characteristics of Brittle Rocks. <i>International Journal of Geomechanics</i> , 2020, 20, .	2.7	5
58	Preliminary Discussion on Comprehensive Research Method for Rock Burst in Coal Mine Based on Newton's Second Law. <i>Shock and Vibration</i> , 2020, 2020, 1-16.	0.6	5
59	Numerical simulation on effect of heterogeneity on mode I fracture characteristics of rock. <i>Journal of Central South University</i> , 2020, 27, 3063-3077.	3.0	5
60	A generalized nonlinear three-dimensional failure criterion based on fracture mechanics. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2023, 15, 630-640.	8.1	5
61	Optimization Support Controlling Large Deformation of Tunnel in Deep Mine based on Discontinuous Deformation Analysis. <i>Procedia Environmental Sciences</i> , 2012, 12, 1045-1054.	1.4	4
62	Investigation on sandstone wave velocity variation and the stress response of pore structure. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	3.5	4
63	Nonlinear model characterizing stress-strain relationship and permeability change of contact compression fracture at closing stage. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 896-903.	8.1	3
64	An Experimental Study on the Slippage Effects of Sandstone under Confining Pressure and Low Pore Pressure Conditions. <i>Geofluids</i> , 2020, 2020, 1-17.	0.7	2
65	Experimental Investigation on the Correlation between Dynamic Ultrasonic and Mechanical Properties of Sandstone Subjected to Uniaxial Compression. <i>Geofluids</i> , 2021, 2021, 1-22.	0.7	2
66	Seismic inversion-based prediction of the elastic parameters of rocks surrounding roadways: a case study from the Shijiazhuang mining area of North China. <i>Acta Geophysica</i> , 0, , 1.	2.0	2
67	Molecular-Level Understanding of Hydroxyl Groups Boosted the Catalytic Activity of the CuZnAl Catalyst in the Conversion of Syngas to Ethanol. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 19421-19433.	3.7	1
68	The Hoek-Brown Failure Criterion. , 2020, , 1-16.		1
69	The Effects of Blast Damage Zone Thickness on Rock Slope Stability. , 2020, , 201-222.		1
70	Study on the Retention of Large Mining Height and Small Coal Pillar under Thick and Hard Roof of Bayangaole Coal. <i>Advances in Civil Engineering</i> , 2021, 2021, 1-17.	0.7	1
71	Experimental determination of coupled thermal-mechanical effects on fracture toughness of sandstone. <i>Journal of Testing and Evaluation</i> , 2009, 37, 48-52.	0.7	1
72	Investigation on Coal Pillar Stability between Different Shapes of Gasifier Cavities under High Temperatures during UCG. <i>Geofluids</i> , 2022, 2022, 1-16.	0.7	1

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73	A 3-D Theoretical Derivation of the Hoek-Brown Criterion. , 2020, , 29-47.		0
74	The Hoek-Brown Brittle-Ductile Transition Analysis. , 2020, , 49-62.		0
75	The Hoek-Brown Constant m_i . , 2020, , 63-83.		0
76	A Gas-Mechanical Coupled Hoek-Brown Criterion. , 2020, , 117-136.		0
77	An UCS Model for Anisotropic Blocky Rock Masses Satisfying the Hoek-Brown Criterion. , 2020, , 137-160.		0
78	Deep Rock Behaviour in Engineering Environments. Advances in Civil Engineering, 2021, 2021, 1-3.	0.7	0