

Lei Xue

List of Publications by Year in descending order

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Version: 2024-02-01

37
papers

942
citations

567144

15
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454834

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all docs

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times ranked

626
citing authors

#	ARTICLE	IF	CITATIONS
1	A Study on Crack Damage Stress Thresholds of Different Rock Types Based on Uniaxial Compression Tests. <i>Rock Mechanics and Rock Engineering</i> , 2014, 47, 1183-1195.	2.6	175
2	Thermal damage pattern and thresholds of granite. <i>Environmental Earth Sciences</i> , 2015, 74, 2341-2349.	1.3	146
3	A physical model predicting instability of rock slopes with locked segments along a potential slip surface. <i>Engineering Geology</i> , 2018, 242, 34-43.	2.9	63
4	New quantitative displacement criteria for slope deformation process: From the onset of the accelerating creep to brittle rupture and final failure. <i>Engineering Geology</i> , 2014, 182, 79-87.	2.9	47
5	Porosity and wave velocity evolution of granite after high-temperature treatment: a review. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	45
6	Wide-Range, Rapid, and Specific Identification of Pathogenic Bacteria by Surface-Enhanced Raman Spectroscopy. <i>ACS Sensors</i> , 2021, 6, 2911-2919.	4.0	39
7	The influence of microwave treatment on the mode I fracture toughness of granite. <i>Engineering Fracture Mechanics</i> , 2021, 249, 107768.	2.0	36
8	A Potential Strain Indicator for Brittle Failure Prediction of Low-porosity Rock: Part I—Experimental Studies Based on the Uniaxial Compression Test. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1763-1772.	2.6	28
9	Why the Xintan landslide was not triggered by the heaviest historical rainfall: Mechanism and review. <i>Engineering Geology</i> , 2021, 294, 106379.	2.9	27
10	Electrical resistivity variation in uniaxial rock compression. <i>Arabian Journal of Geosciences</i> , 2015, 8, 1869-1880.	0.6	26
11	A quantitative criterion to describe the deformation process of rock sample subjected to uniaxial compression: From criticality to final failure. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2014, 410, 470-482.	1.2	21
12	A Potential Strain Indicator for Brittle Failure Prediction of Low-Porosity Rock: Part II—Theoretical Studies Based on Renormalization Group Theory. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1773-1785.	2.6	21
13	An advanced grain-based model to characterize mechanical behaviors of crystalline rocks with different weathering degrees. <i>Engineering Geology</i> , 2021, 280, 105951.	2.9	20
14	X-ray micro-computed tomography study of the propagation of cracks in shale during uniaxial compression. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	18
15	The Reasonable Range Limit of the Shape Parameter in the Weibull Distribution for Describing the Brittle Failure Behavior of Rocks. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3359-3367.	2.6	17
16	Evaluation of the characterization of acoustic emission of brittle rocks from the experiment to numerical simulation. <i>Scientific Reports</i> , 2022, 12, 498.	1.6	17
17	A potential stress indicator for failure prediction of laboratory-scale rock samples. <i>Arabian Journal of Geosciences</i> , 2015, 8, 3441-3449.	0.6	15
18	Rapid detection of severe fever with thrombocytopenia syndrome virus (SFTSV) total antibodies by up-converting phosphor technology-based lateral flow assay. <i>Luminescence</i> , 2019, 34, 162-167.	1.5	15

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19	Evolution of the shape parameter in the Weibull distribution for brittle rocks under uniaxial compression. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	0.6	14
20	Effects of shear rates on the damaging behaviors of layered rocks subjected to direct shear: Insights from acoustic emission characteristics. <i>Engineering Fracture Mechanics</i> , 2021, 258, 108046.	2.0	14
21	Effects of bedding planes on progressive failure of shales under uniaxial compression: Insights from acoustic emission characteristics. <i>Theoretical and Applied Fracture Mechanics</i> , 2022, 119, 103343.	2.1	14
22	A possible explanation of the stair-step brittle deformation evolutionary pattern of a rockslide. <i>Geomatics, Natural Hazards and Risk</i> , 2017, 8, 1456-1476.	2.0	12
23	Correlation study between fracability and brittleness of shale-gas reservoir. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	12
24	Effect of the pore structure of granite and gabbro after heat treatment on the radon emission rate. <i>Environmental Science and Pollution Research</i> , 2022, 29, 36801-36813.	2.7	12
25	Investigation into energy conversion and distribution during brittle failure of hard rock. <i>Bulletin of Engineering Geology and the Environment</i> , 2022, 81, 1.	1.6	11
26	Shaking Table Model Test to Determine Dynamic Response Characteristics and Failure Modes of Steep Bedding Rock Slope. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3645-3658.	2.6	10
27	Permeability Evolution and Rock Brittle Failure. <i>Acta Geophysica</i> , 2015, 63, 978-999.	1.0	9
28	Stress Wave Propagation through Rock Joints Filled with Viscoelastic Medium Considering Different Water Contents. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4797.	1.3	9
29	The influence of temperature and confining pressure on the cracks damage threshold and shape parameter m of igneous rock. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	1.3	8
30	Dynamic response characteristics and instability criteria of a slope with a middle locked segment. <i>Soil Dynamics and Earthquake Engineering</i> , 2021, 150, 106899.	1.9	8
31	Universal precursor seismicity pattern before locked-segment rupture and evolutionary rule for landmark earthquakes. <i>Geoscience Frontiers</i> , 2022, 13, 101314.	4.3	8
32	Study on acoustic emission and X-ray computed-tomography characteristics of shale samples under uniaxial compression tests. <i>Environmental Earth Sciences</i> , 2019, 78, 1.	1.3	7
33	An evaluation index for the fracturing effect in shale based on laboratory testing. <i>Environmental Earth Sciences</i> , 2018, 77, 1.	1.3	6
34	Numerical Investigation of the Scale Effects of Rock Bridges. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5671-5685.	2.6	6
35	Numerical investigation on progressive fracture behaviours of macroscopic heterogeneous rock bridge. <i>European Journal of Environmental and Civil Engineering</i> , 2020, 24, 603-619.	1.0	4
36	Energy Characteristics of Acoustic Emission at the Volume-Expansion Point of a Rock Bridge: A New Insight into the Evolutionary Mechanism of Coastal Cliff Collapse. <i>Journal of Marine Science and Engineering</i> , 2021, 9, 1338.	1.2	2

#	ARTICLE	IF	CITATIONS
37	Study of the Critical Displacement of Landslides by Renormalization-Group Theory. Advanced Materials Research, 0, 183-185, 1173-1177.	0.3	0