Di-yuan Li

List of Publications by Year
in descending order

88 papers	3,872 citations	117571 34 h-index	128225 60 g-index
88 all docs	88 docs citations	88 times ranked	2099 citing authors

#	Article	IF	Citations
1	The Brazilian Disc Test for Rock Mechanics Applications: Review and New Insights. Rock Mechanics and Rock Engineering, 2013, 46, 269-287.	2.6	477
2	Energy evolution characteristics of hard rock during triaxial failure with different loading and unloading paths. Engineering Geology, 2017, 228, 270-281.	2.9	202
3	Fracture analysis of marble specimens with a hole under uniaxial compression by digital image correlation. Engineering Fracture Mechanics, 2017, 183, 109-124.	2.0	176
4	Influence of water content and anisotropy on the strength and deformability of low porosity meta-sedimentary rocks under triaxial compression. Engineering Geology, 2012, 126, 46-66.	2.9	165
5	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
6	Dynamic Strength and Fracturing Behavior of Single-Flawed Prismatic Marble Specimens Under Impact Loading with a Split-Hopkinson Pressure Bar. Rock Mechanics and Rock Engineering, 2017, 50, 29-44.	2.6	151
7	Dynamic Mechanical Properties and Fracturing Behavior of Marble Specimens Containing Single and Double Flaws in SHPB Tests. Rock Mechanics and Rock Engineering, 2019, 52, 1623-1643.	2.6	141
8	True Triaxial Strength and Failure Modes of Cubic Rock Specimens with Unloading the Minor Principal Stress. Rock Mechanics and Rock Engineering, 2015, 48, 2185-2196.	2.6	128
9	Experimental study of stress wave propagation and energy characteristics across rock specimens containing cemented mortar joint with various thicknesses. International Journal of Rock Mechanics and Minings Sciences, 2020, 131, 104352.	2.6	106
10	Failure Characteristics of Granite Influenced by Sample Height-to-Width Ratios and Intermediate Principal Stress Under True-Triaxial Unloading Conditions. Rock Mechanics and Rock Engineering, 2018, 51, 1321-1345.	2.6	91
11	Numerical Investigation of Hard Rock Strength and Fracturing under Polyaxial Compression Based on Mogi-Coulomb Failure Criterion. International Journal of Geomechanics, 2019, 19, .	1.3	86
12	Influence of Sample Height-to-Width Ratios on Failure Mode for Rectangular Prism Samples of Hard Rock Loaded In Uniaxial Compression. Rock Mechanics and Rock Engineering, 2011, 44, 253-267.	2.6	77
13	Stress wave propagation and dynamic behavior of red sandstone with single bonded planar joint at various angles. International Journal of Rock Mechanics and Minings Sciences, 2019, 117, 162-170.	2.6	72
14	Experimental evaluation on rock failure mechanism with combined flaws in a connected geometry under coupled static-dynamic loads. Soil Dynamics and Earthquake Engineering, 2020, 132, 106088.	1.9	67
15	Case studies of groundwater flow into tunnels and an innovative water-gathering system for water drainage. Tunnelling and Underground Space Technology, 2009, 24, 260-268.	3.0	65
16	Failure properties of rocks in true triaxial unloading compressive test. Transactions of Nonferrous Metals Society of China, 2015, 25, 571-581.	1.7	61
17	Mechanical and failure properties of rocks with a cavity under coupled static and dynamic loads. Engineering Fracture Mechanics, 2020, 225, 106195.	2.0	61
18	Modeling hard rock failure induced by structural planes around deep circular tunnels. Engineering Fracture Mechanics, 2019, 205, 152-174.	2.0	60

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19	Analysis of fractures of a hard rock specimen via unloading of central hole with different sectional shapes. Energy Science and Engineering, 2019, 7, 2265-2286.	1.9	58
20	Rock failure induced by dynamic unloading under 3D stress state. Theoretical and Applied Fracture Mechanics, 2013, 65, 47-54.	2.1	56
21	å¼€æŒ–å¸è·æ¶ä»¶ä¸‹å«åšæ¶ç»“æž„é¢ç¡¬å²©å··é“ç š„ç´å¢‰¹æ€§. Journal of Central South University, 2020, 27, 2864-2882.	1.2	56
22	Dynamic mechanical properties and wave propagation of composite rock-mortar specimens based on SHPB tests. International Journal of Mining Science and Technology, 2022, 32, 793-806.	4.6	54
23	Point Load Test on Meta-Sedimentary Rocks and Correlation to UCS and BTS. Rock Mechanics and Rock Engineering, 2013, 46, 889-896.	2.6	51
24	Physical Model Test on the Deformation Behavior of an Underground Tunnel Under Blasting Disturbance. Rock Mechanics and Rock Engineering, 2021, 54, 91-108.	2.6	51
25	Determination of the minimum thickness of crown pillar for safe exploitation of a subsea gold mine based on numerical modelling. International Journal of Rock Mechanics and Minings Sciences, 2013, 57, 42-56.	2.6	50
26	Numerical investigation on the stress evolution and failure behavior for deep roadway under blasting disturbance. Soil Dynamics and Earthquake Engineering, 2020, 137, 106278.	1.9	50
27	Mechanical properties and failure behavior of rock with different flaw inclinations under coupled static and dynamic loads. Journal of Central South University, 2020, 27, 2945-2958.	1.2	46
28	Failure characteristics of brittle rock containing two rectangular holes under uniaxial compression and coupled static-dynamic loads. Acta Geotechnica, 2022, 17, 131-152.	2.9	46
29	Dynamic behavior of rock during its post failure stage in SHPB tests. Transactions of Nonferrous Metals Society of China, 2017, 27, 184-196.	1.7	44
30	New criterion for the spalling failure of deep rock engineering based on energy release. International Journal of Rock Mechanics and Minings Sciences, 2021, 148, 104943.	2.6	42
31	Numerical simulation of rock failure under static and dynamic loading by splitting test of circular ring. Engineering Fracture Mechanics, 2018, 188, 184-201.	2.0	40
32	Experimental Studies on Permeability of Intact and Singly Jointed Meta-Sedimentary Rocks Under Confining Pressure. Rock Mechanics and Rock Engineering, 2013, 46, 107-121.	2.6	39
33	Effect of Filling on Failure Characteristics of Diorite with Double Rectangular Holes Under Coupled Staticâ€“Dynamic Loads. Rock Mechanics and Rock Engineering, 2021, 54, 2741-2761.	2.6	39
34	Static and dynamic tensile failure characteristics of rock based on splitting test of circular ring. Transactions of Nonferrous Metals Society of China, 2016, 26, 1912-1918.	1.7	37
35	Dynamic failure of a phyllite with a low degree of metamorphism under impact Brazilian test. International Journal of Rock Mechanics and Minings Sciences, 2017, 94, 10-17.	2.6	33
36	Intelligent rockburst prediction model with sample category balance using feedforward neural network and Bayesian optimization. Underground Space (China), 2022, 7, 833-846.	3.4	32

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37	A GMDH Predictive Model to Predict Rock Material Strength Using Three Non-destructive Tests. Journal of Nondestructive Evaluation, 2020, 39, 1.	1.1	30
38	Influence of underground water seepage flow on surrounding rock deformation of multi-arch tunnel. Central South University, 2008, 15, 69-74.	0.5	29
39	Novel Ensemble Tree Solution for Rockburst Prediction Using Deep Forest. Mathematics, 2022, 10, 787.	1.1	29
40	Novel ensemble intelligence methodologies for rockburst assessment in complex and variable environments. Scientific Reports, 2022, 12, 1844.	1.6	27
41	A Combination of Fuzzy Delphi Method and ANN-based Models to Investigate Factors of Flyrock Induced by Mine Blasting. Natural Resources Research, 2021, 30, 1905-1924.	2.2	25
42	Effects of external dynamic disturbances and structural plane on rock fracturing around deep underground cavern. International Journal of Coal Science and Technology, 2022, 9, 1.	2.7	25
43	The effects of ABC, ICA, and PSO optimization techniques on prediction of ripping production. Engineering With Computers, 2020, 36, 1355-1370.	3.5	24
44	Effect of thermal treatment on the fracture toughness and subcritical crack growth of granite in double-torsion test. Engineering Fracture Mechanics, 2021, 253, 107903.	2.0	24
45	Fracture mechanism and energy evolution of sandstone with a circular inclusion. International Journal of Rock Mechanics and Minings Sciences, 2022, 155, 105139.	2.6	24
46	Experimental study on the dynamic behavior of sandstone with coplanar elliptical flaws from macro, meso, and micro viewpoints. Theoretical and Applied Fracture Mechanics, 2022, 120, 103400.	2.1	23
47	Experimental study of the mechanical and fracture behavior of flawed sandstone subjected to coupled static-repetitive impact loading. Theoretical and Applied Fracture Mechanics, 2022, 117, 103161.	2.1	22
48	Experimental and Numerical Analysis of Mode I Fracture Process of Rock by Semi-Circular Bend Specimen. Mathematics, 2021, 9, 1769.	1.1	21
49	Evaluation on Rock Tensile Failure of the Brazilian Discs under Different Loading Configurations by Digital Image Correlation. Applied Sciences (Switzerland), 2020, 10, 5513.	1.3	20
50	Experimental investigations of static mechanical properties and failure characteristics of damaged diorite after dynamic triaxial compression. International Journal of Rock Mechanics and Minings Sciences, 2022, 153, 105106.	2.6	20
51	Deformation and fracture behavior of granite by the short core in compression method with 3D digital image correlation. Fatigue and Fracture of Engineering Materials and Structures, 2022, 45, 425-440.	1.7	19
52	Comprehensive Evaluation of Strength Criteria for Granite, Marble, and Sandstone Based on Polyaxial Experimental Tests. International Journal of Geomechanics, 2020, 20, .	1.3	17
53	Development of a Group Method of Data Handling Technique to Forecast Iron Ore Price. Applied Sciences (Switzerland), 2020, 10, 2364.	1.3	16
54	Evaluation of Bi-modular Behavior of Rocks Subjected to Uniaxial Compression and Brazilian Tensile Testing. Rock Mechanics and Rock Engineering, 2021, 54, 3961-3975.	2.6	16

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55	Experimental and Numerical Investigations on Feasibility and Validity of Prismatic Rock Specimen in SHPB. Shock and Vibration, 2016, 2016, 1-13.	0.3	15
56	Modeling of failure characteristics of rectangular hard rock influenced by sample height-to-width ratios: A finite/discrete element approach. Comptes Rendus - Mecanique, 2017, 345, 317-328.	2.1	15
57	Dynamic Fracturing Behavior of Layered Rock with Different Inclination Angles in SHPB Tests. Shock and Vibration, 2017, 2017, 1-12.	0.3	15
58	Excavation unloadingâ€induced fracturing of hard rock containing different shapes of central holes affected by unloading rates and in situ stresses. Energy Science and Engineering, 2020, 8, 4-27.	1.9	15
59	The mode I fatigue fracture of fine-grained quartz-diorite under coupled static loading and dynamic disturbance. Theoretical and Applied Fracture Mechanics, 2022, 117, 103140.	2.1	15
60	Settlement behavior of coal mine waste in different surrounding rock conditions. Central South University, 2008, 15, 350-355.	0.5	14
61	Quantitative analysis of the influence of saturation on rock strength reduction considering the distribution of water. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2019, 5, 197-207.	1.3	14
62	Cancelling ore pillars in large-scale coastal gold deposit: A case study in Sanshandao gold mine, China. Transactions of Nonferrous Metals Society of China, 2013, 23, 3046-3056.	1.7	12
63	Triaxial Loading and Unloading Tests on Dry and Saturated Sandstone Specimens. Applied Sciences (Switzerland), 2019, 9, 1689.	1.3	12
64	Mechanical behavior and permeability evolution of sandstone with confining pressure after dynamic loading. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2021, 7, 1.	1.3	11
65	Dynamic Fracture Evolution and Mechanical Behavior of Sandstone Containing Noncoplanar Elliptical Flaws under Impact Loading. Advances in Civil Engineering, 2018, 2018, 1-16.	0.4	9
66	Stability Control and Support Optimization for a Soft-Rock Roadway in Dipping Layered Strata. Geotechnical and Geological Engineering, 2019, 37, 2189-2205.	0.8	9
67	Stability Analysis and Support Control for a Jointed Soft Rock Roadway Considering Different Lateral Stresses. Geotechnical and Geological Engineering, 2020, 38, 237-253.	0.8	9
68	Instantaneous and long-term deformation characteristics of deep room-pillar system induced by pillar recovery. Transactions of Nonferrous Metals Society of China, 2020, 30, 2775-2791.	1.7	9
69	Failure of rock under dynamic compressive loading. Central South University, 2008, 15, 339-343.	0.5	8
70	Numerical analysis of tunnel reinforcing influences on failure process of surrounding rock under explosive stress waves. Central South University, 2008, 15, 632-638.	0.5	8
71	Time-Dependent Deformation Behavior of Completely Weathered Granite Subjected to Wetting Immersion. Rock Mechanics and Rock Engineering, 2021, 54, 6373-6391.	2.6	8
72	A Novel Method of Multitype Hybrid Rock Lithology Classification Based on Convolutional Neural Networks. Sensors, 2022, 22, 1574.	2.1	8

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73	Novel Underhand Cut-and-Fill Stoping Method and Mechanical Analysis of Overlying Backfill. International Journal of Geomechanics, 2017, 17, .	1.3	7
74	Experimental Study on Backfilling Mine Goafs with Chemical Waste Phosphogypsum. Geofluids, 2019, 2019, 1-12.	0.3	7
75	Experimental Investigation on Crack Behavior and Stress Thresholds of Sandstone Containing a Square Inclusion under Uniaxial Compression. Applied Sciences (Switzerland), 2020, 10, 7621.	1.3	7
76	Deformation and strength properties of completely decomposed granite in a fault zone. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2021, 7, 1.	1.3	7
77	Influence of blasting disturbance on dynamic response and safety of deep tunnels. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, 1.	1.3	7
78	Experimental studies on physical and mechanical behaviors of heated rocks with pre-fabricated hole exposed to different cooling rates. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2022, 8, .	1.3	7
79	Experimental Studies on Rock Thin-Section Image Classification by Deep Learning-Based Approaches. Mathematics, 2022, 10, 2317.	1.1	7
80	Mechanical response and crack propagation of oil well cement under dynamic and static loads. Journal of Adhesion Science and Technology, 2019, 33, 1658-1675.	1.4	6
81	A quantitative analysis method for GPR signals based on optimal biorthogonal wavelet. Journal of Central South University, 2018, 25, 879-891.	1.2	5
82	Deformation and fracture of circular tunnels under non-tectonic stresses and its support control. European Journal of Environmental and Civil Engineering, 2022, 26, 1654-1677.	1.0	5
83	Reply to Comment by Saffet Yagiz on â€œPoint Load Test on Meta-Sedimentary Rocks and Correlations to UCS and BTSâ€•by Diyuan Li and Louis Ngai Yuen Wong, Rock Mechanics and Rock Engineering, doi:10.1007/s00603-012-0299-x. Rock Mechanics and Rock Engineering, 2013, 46, 913-915.	2.6	4
84	Strain Energy Release and Deep Rock Failure Due to Excavation in Pre-Stressed Rock. Minerals (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	0.8	4
85	Discussion on â€œPredicting the Uniaxial Compressive and Tensile Strengths of Gypsum Rock by Point Load Testingâ€•by M. Heidari et al., Rock Mechanics and Rock Engineering (2012) 45:265â€“273. Rock Mechanics and Rock Engineering, 2012, 45, 1127-1130.	2.6	3
86	Full- and Local-Field Strain Evolution and Fracture Behavior of Precracked Granite under Coupled Static and Dynamic Loads. Shock and Vibration, 2020, 2020, 1-15.	0.3	3
87	Study on Evolution Mechanism of Structure-Type Rockburst: Insights from Discrete Element Modeling. Sustainability, 2021, 13, 8036.	1.6	3
88	Corrigendum to â€œExperimental and Numerical Investigations on Feasibility and Validity of Prismatic Rock Specimen in SHPBâ€• Shock and Vibration, 2017, 2017, 1-1.	0.3	0