Cai-Ping Lu

List of Publications by Year
in descending order

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42 papers	1,209 citations	516710 16 h-index	377865 34 g-index
42 all docs	42 docs citations	42 times ranked	827 citing authors

#	Article	IF	Citations
1	Research on Mechanisms and Precursors of Slip and Fracture of Coalâ€“Rock Partingâ€“Coal Structure. Rock Mechanics and Rock Engineering, 2022, 55, 1343-1359.	5.4	8
2	Moment Tensor Inversion and Stress Evolution of Coal Pillar Failure Mechanism. Rock Mechanics and Rock Engineering, 2022, 55, 2371-2383.	5.4	19
3	Case Study regarding the Stress Distribution and Microseismic Laws of Coal and Rock Underlying the Residual Coal Pillar. Lithosphere, 2022, 2022, .	1.4	3
4	Damage Mechanism and Wave Attenuation Induced by Blasting in Jointed Rock. Geofluids, 2022, 2022, 1-15.	0.7	2
5	Mechanisms Underlying the Slip and Failure of Coal-Rock Parting-Coal Structures Under Unloading Conditions. Rock Mechanics and Rock Engineering, 2022, 55, 4913-4928.	5.4	2
6	Research on instability characteristics and precursory effect of coal-rock parting-coal structures. Scientific Reports, 2022, 12, .	3.3	3
7	Numerical and Field Investigations on Rockburst Risk Adjacent to Irregular Coal Pillars and Fault. Shock and Vibration, 2021, 2021, 1-17.	0.6	2
8	Investigations of Coal-Rock Parting-Coal Structure (CRCS) Slip and Instability by Excavation. Shock and Vibration, 2021, 2021, 1-15.	0.6	1
9	Slip and instability mechanisms of coalâ€rock partingâ€coal structure (<scp>CRCS</scp>) under coupled dynamic and static loading. Energy Science and Engineering, 2019, 7, 2703-2719.	4.0	8
10	Experimental and field investigations on seismic response of joints and beddings in rocks. Ultrasonics, 2019, 97, 46-56.	3.9	7
11	Mechanisms of Rockburst Triggered by Slip and Fracture of Coalâ€“Partingâ€“Coal Structure Discontinuities. Rock Mechanics and Rock Engineering, 2019, 52, 3279-3292.	5.4	34
12	Anatomy of mining-induced fault slip and a triggered rockburst. Bulletin of Engineering Geology and the Environment, 2019, 78, 5147-5160.	3.5	25
13	Shock and Vibration in Deep Mining Science. Shock and Vibration, 2019, 2019, 1-3.	0.6	1
14	Numerical investigation of slip and fracture instability mechanism of coal- rock parting-coal structure (CRCS). Journal of Structural Geology, 2019, 118, 265-278.	2.3	17
15	Mutation effect of acoustic and electromagnetic emissions of hard rock impact failure. International Journal of Distributed Sensor Networks, 2019, 15, 155014771882447.	2.2	2
16	Stress evolution caused by hard roof fracturing and associated multi-parameter precursors. Tunnelling and Underground Space Technology, 2019, 84, 295-305.	6.2	24
17	Acoustic and vibration precursors from shear-slip characteristics of simulated zigzag-type gouge fault. Studia Geophysica Et Geodaetica, 2018, 62, 102-114.	0.5	0
18	Case histories of rock bursts under complicated geological conditions. Bulletin of Engineering Geology and the Environment, 2018, 77, 1529-1545.	3.5	106

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19	Effects of Particle Size on Fault Gouge Frictional Characteristics and Associated Acoustic Emission. Advances in Civil Engineering, 2018, 2018, 1-11.	0.7	2
20	In-situ and experimental investigations of rockburst precursor and prevention induced by fault slip. International Journal of Rock Mechanics and Minings Sciences, 2018, 108, 86-95.	5.8	58
21	Research on shear-slip characteristics with different-size rectangular zigzag gouge by double-direct tests. International Journal of Distributed Sensor Networks, 2017, 13, 155014771770289.	2.2	2
22	Shock and Vibration Induced by Mining Extraction 2016. Shock and Vibration, 2016, 2016, 1-1.	0.6	0
23	Pyrolysis and gasification modelling of underground coal gasification and the optimisation of CO2 as a gasification agent. Fuel, 2016, 183, 557-567.	6.4	17
24	Evaluation method of the energy conversion efficiency of coal gasification and related applications. International Journal of Energy Research, 2016, 40, 168-180.	4.5	14
25	Experimental research on shear-slip characteristics of simulated fault with zigzag-type gouge. Tribology International, 2016, 99, 187-197.	5.9	8
26	Inversion of stress field evolution consisting of static and dynamic stresses by microseismic velocity tomography. International Journal of Rock Mechanics and Minings Sciences, 2016, 87, 8-22.	5.8	29
27	Microseismic signals of double-layer hard and thick igneous strata separation and fracturing. International Journal of Coal Geology, 2016, 160-161, 28-41.	5.0	64
28	Failure characteristics of combined coal-rock with different interfacial angles. Geomechanics and Engineering, 2016, 11, 345-359.	0.9	46
29	Warning Method of Coal Bursting Failure Danger by Electromagnetic Radiation. Shock and Vibration, 2015, 2015, 1-9.	0.6	10
30	Numerical Investigation of Rockburst Effect of Shock Wave on Underground Roadway. Shock and Vibration, 2015, 2015, 1-10.	0.6	12
31	Microseismic multi-parameter characteristics of rockburst hazard induced by hard roof fall and high stress concentration. International Journal of Rock Mechanics and Minings Sciences, 2015, 76, 18-32.	5.8	215
32	Microseismic and acoustic emission effect on gas outburst hazard triggered by shock wave: a case study. Natural Hazards, 2014, 73, 1715-1731.	3.4	39
33	The relationship between vertical stress gradient, seismic, and electromagnetic emission signals at Sanhejian coal mine, China. International Journal of Rock Mechanics and Minings Sciences, 2014, 70, 90-100.	5.8	17
34	Microseismic frequency-spectrum evolutionary rule of rockburst triggered by roof fall. International Journal of Rock Mechanics and Minings Sciences, 2013, 64, 6-16.	5.8	130
35	Microseismic low-frequency precursor effect of bursting failure of coal and rock. Journal of Applied Geophysics, 2012, 79, 55-63.	2.1	67
36	Case study on microseismic effect of coal and gas outburst process. International Journal of Rock Mechanics and Minings Sciences, 2012, 53, 101-110.	5.8	75

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37	Case study of blast-induced shock wave propagation in coal and rock. International Journal of Rock Mechanics and Minings Sciences, 2010, 47, 1046-1054.	5.8	33
38	Frequency spectrum analysis on micro-seismic signal of rock bursts induced by dynamic disturbance. Mining Science and Technology, 2010, 20, 682-685.	0.3	13
39	Prevention and forecasting of rock burst hazards in coal mines. Mining Science and Technology, 2009, 19, 585-591.	0.3	57
40	Classification of microseismic events in high stress zone. Mining Science and Technology, 2009, 19, 718-723.	0.3	10
41	Study on fault induced rock bursts. Mining Science and Technology, 2008, 18, 321-326.	0.8	21
42	Research on microseismic activity rules in Sanhejian Coal Mine. Science in China Series A: Mathematics, 2008, 14, 373-377.	0.2	6