

Dazhao Song

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

2,243
citations

279798

23
h-index

214800

47
g-index

54
all docs

54
docs citations

54
times ranked

1250
citing authors

#	ARTICLE	IF	CITATIONS
1	FTIR and Raman spectroscopy characterization of functional groups in various rank coals. <i>Fuel</i> , 2017, 206, 555-563.	6.4	456
2	Rock Burst Monitoring by Integrated Microseismic and Electromagnetic Radiation Methods. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 4393-4406.	5.4	142
3	Nanopore structure of deep-burial coals explored by AFM. <i>Fuel</i> , 2019, 246, 9-17.	6.4	107
4	Insight into the macromolecular structural differences between hard coal and deformed soft coal. <i>Fuel</i> , 2019, 245, 188-197.	6.4	102
5	Experimental investigation on occurrence of gassy coal extrusion in coalmine. <i>Safety Science</i> , 2019, 113, 362-371.	4.9	93
6	Relationship between EMR and dissipated energy of coal rock mass during cyclic loading process. <i>Safety Science</i> , 2012, 50, 751-760.	4.9	84
7	Research on AE and EMR response law of the driving face passing through the fault. <i>Safety Science</i> , 2019, 117, 184-193.	4.9	82
8	Quantitative analysis of coal nanopore characteristics using atomic force microscopy. <i>Powder Technology</i> , 2019, 346, 332-340.	4.2	81
9	Effect of microstructure on electrical property of coal surface. <i>Applied Surface Science</i> , 2019, 483, 713-720.	6.1	75
10	Precursor of Spatio-temporal Evolution Law of MS and AE Activities for Rock Burst Warning in Steeply Inclined and Extremely Thick Coal Seams Under Caving Mining Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 2415-2435.	5.4	68
11	MULTIFRACTAL OF ELECTROMAGNETIC WAVEFORM AND SPECTRUM ABOUT COAL ROCK SAMPLES SUBJECTED TO UNIAXIAL COMPRESSION. <i>Fractals</i> , 2020, 28, 2050061.	3.7	65
12	Use of ultra-low-frequency electromagnetic emission to monitor stress and failure in coal mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 70, 16-25.	5.8	60
13	Coal macromolecular structural characteristic and its influence on coalbed methane adsorption. <i>Fuel</i> , 2018, 222, 687-694.	6.4	59
14	Changes in Frequency of Electromagnetic Radiation from Loaded Coal Rock. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 291-302.	5.4	58
15	Correlations between acoustic and electromagnetic emissions and stress drop induced by burst-prone coal and rock fracture. <i>Safety Science</i> , 2019, 115, 310-319.	4.9	53
16	Micro-structural Damage to Coal Induced by Liquid CO ₂ Phase Change Fracturing. <i>Natural Resources Research</i> , 2021, 30, 1613-1627.	4.7	51
17	Coupled mechanism of compression and prying-induced rock burst in steeply inclined coal seams and principles for its prevention. <i>Tunnelling and Underground Space Technology</i> , 2020, 98, 103327.	6.2	43
18	Evaluation of liquid CO ₂ phase change fracturing effect on coal using fractal theory. <i>Fuel</i> , 2021, 287, 119569.	6.4	42

#	ARTICLE	IF	CITATIONS
19	Variations in surface fractal characteristics of coal subjected to liquid CO_2 phase change fracturing. <i>International Journal of Energy Research</i> , 2020, 44, 8740-8753.	4.5	40
20	Study on the Nonlinear Characteristics of EMR and AE during Coal Splitting Tests. <i>Minerals (Basel)</i> , 2020, 10, 1010.	2.0	40
21	Pore Fractal Dimensions of Bituminous Coal Reservoirs in North China and Their Impact on Gas Adsorption Capacity. <i>Natural Resources Research</i> , 2021, 30, 4585-4596.	4.7	31
22	Measurement of the stress field of a tunnel through its rock EMR. <i>Journal of Geophysics and Engineering</i> , 2017, 14, 949-959.	1.4	30
23	EMR: An effective method for monitoring and warning of rock burst hazard. <i>Geomechanics and Engineering</i> , 2017, 12, 53-69.	0.9	27
24	Effect of Rock Properties on Electromagnetic Radiation Characteristics Generated by Rock Fracture During Uniaxial Compression. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5223-5238.	5.4	24
25	Integrated rockburst early warning model based on fuzzy comprehensive evaluation method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 142, 104767.	5.8	23
26	Investigate Contribution of Multi-Microseismic Data to Rockburst Risk Prediction Using Support Vector Machine With Genetic Algorithm. <i>IEEE Access</i> , 2020, 8, 58817-58828.	4.2	22
27	A novel geophysical method for fractures mapping and risk zones identification in a coalmine, Northeast, China. <i>Energy Reports</i> , 2021, 7, 3785-3804.	5.1	22
28	Determination of hydraulic flushing impact range by DC resistivity test method. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 107, 127-135.	5.8	20
29	Mechanism and Prevention of Rockburst in Steeply Inclined and Extremely Thick Coal Seams for Fully Mechanized Top-Coal Caving Mining and Under Gob Filling Conditions. <i>Energies</i> , 2020, 13, 1362.	3.1	20
30	AFM characterization of surface mechanical and electrical properties of some common rocks. <i>International Journal of Mining Science and Technology</i> , 2022, 32, 435-445.	10.3	18
31	Research on the Critical Temperature and Stage Characteristics for the Spontaneous Combustion of Different Metamorphic Degrees of Coal. <i>International Journal of Coal Preparation and Utilization</i> , 2018, 38, 221-236.	2.1	17
32	Damage and fracture law of coal samples with different joint angles and their characterisation by acoustic emission. <i>Structural Control and Health Monitoring</i> , 2020, 27, e2639.	4.0	17
33	Dynamic Modelling of Seismic Wave Propagation due to a Remote Seismic Source: A Case Study. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5177-5201.	5.4	17
34	Research on electromagnetic radiation (EMR) waveform characteristics of coal failure process using Hilbert-Huang transform (HHT). <i>Measurement: Journal of the International Measurement Confederation</i> , 2022, 187, 110195.	5.0	17
35	Time-frequency evolution law and generation mechanism of electromagnetic radiation in coal friction process. <i>Engineering Geology</i> , 2021, 294, 106377.	6.3	16
36	Classification of coal seam outburst hazards and evaluation of the importance of influencing factors. <i>Open Geosciences</i> , 2017, 9, .	1.7	14

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37	Investigation of coal and gas outburst risk by microseismic monitoring. PLoS ONE, 2019, 14, e0216464.	2.5	12
38	A three-axis antenna to measure near-field low-frequency electromagnetic radiation generated from rock fracture. Measurement: Journal of the International Measurement Confederation, 2021, 173, 108563.	5.0	12
39	Research on the classification model of coal's bursting liability based on database with large samples. Arabian Journal of Geosciences, 2019, 12, 1.	1.3	10
40	The heterogeneity and electro-mechanical characteristics of coal at the micro- and nanoscale. Journal of Geophysics and Engineering, 2019, 16, 717-728.	1.4	10
41	Microseismic Temporal-Spatial Precursory Characteristics and Early Warning Method of Rockburst in Steeply Inclined and Extremely Thick Coal Seam. Energies, 2021, 14, 1186.	3.1	8
42	An EMR-based method for evaluating the effect of water jet cutting on pressure relief. Arabian Journal of Geosciences, 2015, 8, 4555-4564.	1.3	7
43	Experimental study on the change of magnetic field in the process of concrete failure under load. Structural Control and Health Monitoring, 2021, 28, e2806.	4.0	7
44	Regional local integrated rockburst monitoring and early warning for multi-seam mining. Journal of Geophysics and Engineering, 2021, 18, 725-739.	1.4	7
45	Structural health monitoring of building rock based on stress drop and acoustic-electric energy release. Structural Control and Health Monitoring, 2022, 29, e2875.	4.0	7
46	An Intelligent Rockburst Prediction Model Based on Scorecard Methodology. Minerals (Basel, Switzerland), 2022, 12, 382.	2.0	7
47	Risk Prediction of Coal and Gas Outburst Based on Abnormal Gas Concentration in Blasting Driving Face. Geofluids, 2022, 2022, 1-17.	0.7	6
48	Investigation of Strong Strata Behaviors in the Close-Distance Multiseam Coal Pillar Mining. Shock and Vibration, 2021, 2021, 1-14.	0.6	5
49	GA-Based Early Warning Method for Rock Burst with Microseismic and Acoustic Emission in Steeply Inclined Coal Seam. Shock and Vibration, 2020, 2020, 1-16.	0.6	2
50	An Experimental Study: Variation Law of Magnetic Field around Concrete during Loading. Minerals (Basel, Switzerland), 2022, 12, 399.	2.0	2
51	Failure Mechanism of Gob-Side Roadway under Overlying Coal Pillar Multiseam Mining. Shock and Vibration, 2021, 2021, 1-13.	0.6	2
52	A new methodology for the simulation of tunnel rockburst due to far-field seismic event. Journal of Applied Geophysics, 2022, 202, 104651.	2.1	2
53	Dynamic Propagation and Electro-Mechanical Characteristics of New Microcracks in Notched Coal Samples Studied by the Three-Point Bending Test System and AFM. Minerals (Basel, Switzerland), 2022, 12, 582.	2.0	1
54	Time-Frequency Characteristics and the Influence Mechanism of the EMR from Coal with Different Joint Angles. Shock and Vibration, 2021, 2021, 1-17.	0.6	0