

# 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	Research on electromagnetic radiation (EMR) waveform characteristics of coal failure process using Hilbert-Huang transform (HHT). Measurement: Journal of the International Measurement Confederation, 2022, 187, 110195.	5.0	17
2	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
3	Study on the Nonlinear Characteristics of EMR and AE during Coal Splitting Tests. Minerals (Basel, Switzerland), 2022, 12, 399.	2.0	2
4	An Experimental Study: Variation Law of Magnetic Field around Concrete during Loading. Minerals (Basel, Switzerland), 2022, 12, 399.	2.0	2
5	AFM characterization of surface mechanical and electrical properties of some common rocks. International Journal of Mining Science and Technology, 2022, 32, 435-445.	10.3	18
6	Risk Prediction of Coal and Gas Outburst Based on Abnormal Gas Concentration in Blasting Driving Face. Geofluids, 2022, 2022, 1-17.	0.7	6
7	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
8	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
9	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
10	Micro-structural Damage to Coal Induced by Liquid CO <sub>2</sub> Phase Change Fracturing. Natural Resources Research, 2021, 30, 1613-1627.	4.7	51
11	Investigation of Strong Strata Behaviors in the Close-Distance Multiseam Coal Pillar Mining. Shock and Vibration, 2021, 2021, 1-14.	0.6	5
12	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
13	Evaluation of liquid CO <sub>2</sub> phase change fracturing effect on coal using fractal theory. Fuel, 2021, 287, 119569.	6.4	42
14	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
15	Integrated rockburst early warning model based on fuzzy comprehensive evaluation method. International Journal of Rock Mechanics and Minings Sciences, 2021, 142, 104767.	5.8	23
16	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
17	Regional local integrated rockburst monitoring and early warning for multi-seam mining. Journal of Geophysics and Engineering, 2021, 18, 725-739.	1.4	7
18	A novel geophysical method for fractures mapping and risk zones identification in a coalmine, Northeast, China. Energy Reports, 2021, 7, 3785-3804.	5.1	22

#	ARTICLE	IF	CITATIONS
19	Time-frequency evolution law and generation mechanism of electromagnetic radiation in coal friction process. <i>Engineering Geology</i> , 2021, 294, 106377.	6.3	16
20	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
21	An Intelligent Rockburst Prediction Model Based on Scorecard Methodology. <i>Minerals (Basel)</i> Tj ETQq1 1 0.784314 ggBT /Overlock 10	2.6	7
22	Failure Mechanism of Gob-Side Roadway under Overlying Coal Pillar Multiseam Mining. <i>Shock and Vibration</i> , 2021, 2021, 1-13.	0.6	2
23	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
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	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
26	GA-Based Early Warning Method for Rock Burst with Microseismic and Acoustic Emission in Steeply Inclined Coal Seam. <i>Shock and Vibration</i> , 2020, 2020, 1-16.	0.6	2
27	Variations in surface fractal characteristics of coal subjected to liquid $\text{CO}_2$ phase change fracturing. <i>International Journal of Energy Research</i> , 2020, 44, 8740-8753.	4.5	40
28	MULTIFRACTAL OF ELECTROMAGNETIC WAVEFORM AND SPECTRUM ABOUT COAL ROCK SAMPLES SUBJECTED TO UNIAXIAL COMPRESSION. <i>Fractals</i> , 2020, 28, 2050061.	3.7	65
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	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
31	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
32	Research on the classification model of coal's bursting liability based on database with large samples. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	10
33	The heterogeneity and electro-mechanical characteristics of coal at the micro- and nanoscale. <i>Journal of Geophysics and Engineering</i> , 2019, 16, 717-728.	1.4	10
34	Investigation of coal and gas outburst risk by microseismic monitoring. <i>PLoS ONE</i> , 2019, 14, e0216464.	2.5	12
35	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
36	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

#	ARTICLE	IF	CITATIONS
37	Effect of microstructure on electrical property of coal surface. Applied Surface Science, 2019, 483, 713-720.	6.1	75
38	Insight into the macromolecular structural differences between hard coal and deformed soft coal. Fuel, 2019, 245, 188-197.	6.4	102
39	Quantitative analysis of coal nanopore characteristics using atomic force microscopy. Powder Technology, 2019, 346, 332-340.	4.2	81
40	Nanopore structure of deep-burial coals explored by AFM. Fuel, 2019, 246, 9-17.	6.4	107
41	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. Rock Mechanics and Rock Engineering, 2019, 52, 2415-2435.	5.4	68
42	Experimental investigation on occurrence of gassy coal extrusion in coalmine. Safety Science, 2019, 113, 362-371.	4.9	93
43	Coal macromolecular structural characteristic and its influence on coalbed methane adsorption. Fuel, 2018, 222, 687-694.	6.4	59
44	Research on the Critical Temperature and Stage Characteristics for the Spontaneous Combustion of Different Metamorphic Degrees of Coal. International Journal of Coal Preparation and Utilization, 2018, 38, 221-236.	2.1	17
45	Determination of hydraulic flushing impact range by DC resistivity test method. International Journal of Rock Mechanics and Minings Sciences, 2018, 107, 127-135.	5.8	20
46	Measurement of the stress field of a tunnel through its rock EMR. Journal of Geophysics and Engineering, 2017, 14, 949-959.	1.4	30
47	FTIR and Raman spectroscopy characterization of functional groups in various rank coals. Fuel, 2017, 206, 555-563.	6.4	456
48	Classification of coal seam outburst hazards and evaluation of the importance of influencing factors. Open Geosciences, 2017, 9, .	1.7	14
49	EMR: An effective method for monitoring and warning of rock burst hazard. Geomechanics and Engineering, 2017, 12, 53-69.	0.9	27
50	Rock Burst Monitoring by Integrated Microseismic and Electromagnetic Radiation Methods. Rock Mechanics and Rock Engineering, 2016, 49, 4393-4406.	5.4	142
51	Changes in Frequency of Electromagnetic Radiation from Loaded Coal Rock. Rock Mechanics and Rock Engineering, 2016, 49, 291-302.	5.4	58
52	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
53	Use of ultra-low-frequency electromagnetic emission to monitor stress and failure in coal mines. International Journal of Rock Mechanics and Minings Sciences, 2014, 70, 16-25.	5.8	60
54	Relationship between EMR and dissipated energy of coal rock mass during cyclic loading process. Safety Science, 2012, 50, 751-760.	4.9	84