

Guangyao Si

List of Publications by Year in descending order

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42
papers

1,316
citations

331642

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docs citations

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times ranked

782
citing authors

#	ARTICLE	IF	CITATIONS
1	A principal component analysis/fuzzy comprehensive evaluation model for coal burst liability assessment. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 81, 62-69.	5.8	100
2	A new seismic-based strain energy methodology for coal burst forecasting in underground coal mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 123, 104086.	5.8	84
3	Fault-Induced Coal Burst Mechanism under Mining-Induced Static and Dynamic Stresses. <i>Engineering</i> , 2021, 7, 687-700.	6.7	81
4	A novel approach for modelling coal permeability during transition from elastic to post-failure state using a modified logistic growth function. <i>International Journal of Coal Geology</i> , 2016, 163, 132-139.	5.0	70
5	Seismic monitoring and analysis of excessive gas emissions in heterogeneous coal seams. <i>International Journal of Coal Geology</i> , 2015, 149, 41-54.	5.0	65
6	Monitoring and modelling of gas dynamics in multi-level longwall top coal caving of ultra-thick coal seams, part I: Borehole measurements and a conceptual model for gas emission zones. <i>International Journal of Coal Geology</i> , 2015, 144-145, 98-110.	5.0	64
7	A Monitoring Investigation into Rock Burst Mechanism Based on the Coupled Theory of Static and Dynamic Stresses. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5451-5471.	5.4	64
8	Numerical modelling of microseismicity associated with longwall coal mining. <i>International Journal of Coal Geology</i> , 2018, 193, 30-45.	5.0	55
9	Prediction of Relatively High-Energy Seismic Events Using Spatial-Temporal Parametrisation of Mining-Induced Seismicity. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5111-5132.	5.4	51
10	The position of hydraulic fracturing to initiate vertical fractures in hard hanging roof for stress relief. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 132, 104328.	5.8	51
11	Monitoring and modelling of gas dynamics in multi-level longwall top coal caving of ultra-thick coal seams, Part II: Numerical modelling. <i>International Journal of Coal Geology</i> , 2015, 144-145, 58-70.	5.0	48
12	NMR-based damage characterisation of backfill material in host rock under dynamic loading. <i>International Journal of Mining Science and Technology</i> , 2020, 30, 329-335.	10.3	48
13	A Fiber Bragg Grating-Based Monitoring System for Roof Safety Control in Underground Coal Mining. <i>Sensors</i> , 2016, 16, 1759.	3.8	43
14	Parametric Analysis of Slotting Operation Induced Failure Zones to Stimulate Low Permeability Coal Seams. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 163-182.	5.4	43
15	Performance analysis of vertical goaf gas drainage holes using gas indicators in Australian coal mines. <i>International Journal of Coal Geology</i> , 2019, 216, 103301.	5.0	38
16	Gas-driven rapid fracture propagation under unloading conditions in coal and gas outbursts. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 130, 104325.	5.8	38
17	Evaluation of coal petrophysics incorporating fractal characteristics by mercury intrusion porosimetry and low-field NMR. <i>Fuel</i> , 2020, 263, 116802.	6.4	35
18	A plastic strain-based damage model for heterogeneous coal using cohesion and dilation angle. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 110, 151-160.	5.8	33

#	ARTICLE	IF	CITATIONS
19	Coal and gas outburst control using uniform hydraulic fracturing by distress blasting and water-driven gas release. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 79, 103360.	4.4	31
20	Experimental study on mechanical properties and failure behaviour of the pre-cracked coal-rock combination. <i>Bulletin of Engineering Geology and the Environment</i> , 2021, 80, 2307-2321.	3.5	30
21	Classification of clustered microseismic events in a coal mine using machine learning. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 1256-1273.	8.1	26
22	Location error based seismic cluster analysis and its application to burst damage assessment in underground coal mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 143, 104784.	5.8	25
23	Goaf gas drainage and its impact on coal oxidation behaviour: A conceptual model. <i>International Journal of Coal Geology</i> , 2021, 248, 103878.	5.0	21
24	Pore Structure and Compressibility Characteristics of Heat-Treated Coals by N_2 Adsorption/Desorption and Mercury Intrusion Porosimetry. <i>Energy & Fuels</i> , 2020, 34, 3173-3187.	5.1	18
25	Evolution characteristics of coal microstructure and its influence on methane adsorption capacity under high temperature pyrolysis. <i>Energy</i> , 2022, 254, 124262.	8.8	17
26	An integrated expert weight determination method for design concept evaluation. <i>Scientific Reports</i> , 2022, 12, 6358.	3.3	16
27	Automated Rock Quality Designation Using Convolutional Neural Networks. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3719-3734.	5.4	14
28	Evaluation of multistage characteristics for coalbed methane desorption-diffusion and their geological controls: A case study of the northern Gujiao Block of Qinshui Basin, China. <i>Journal of Petroleum Science and Engineering</i> , 2021, 204, 108704.	4.2	13
29	Integration of protective mining and underground backfilling for coal and gas outburst control: A case study. <i>Chemical Engineering Research and Design</i> , 2022, 157, 273-283.	5.6	12
30	Study on the Optimal Groove Shape and Glue Material for Fiber Bragg Grating Measuring Bolts. <i>Sensors</i> , 2018, 18, 1799.	3.8	11
31	A Statistical Method to Assess the Data Integrity and Reliability of Seismic Monitoring Systems in Underground Mines. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5885-5901.	5.4	10
32	Equivalent anisotropic permeability of shale rocks: Effect of micro-fractures. <i>Journal of Petroleum Science and Engineering</i> , 2021, 207, 109085.	4.2	10
33	Effect of pretension on the performance of cable bolts and its optimisation in underground coal mines with various geological conditions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 152, 105076.	5.8	9
34	Angle Shear Testing of 15.2mm Seven Wire Cable Bolt. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3919-3937.	5.4	7
35	Evaluation of Methane Dynamic Adsorption-Diffusion Process in Coals by a Low-Field NMR Method. <i>Energy & Fuels</i> , 2020, 34, 16119-16131.	5.1	6
36	Seismic source location using the shortest path method based on boundary discretisation scheme for microseismic monitoring in underground mines. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, , 104982.	5.8	6

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37	Quantitative assessment of the spatio-temporal correlations of seismic events induced by longwall coal mining. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2022, 14, 1406-1420.	8.1	6
38	A Pre-peak Elastoplastic Damage Model of Gosford Sandstone Based on Acoustic Emission and Ultrasonic Wave Measurement. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 4819-4838.	5.4	6
39	Ground motion characteristics and their cumulative impacts to burst risks in underground coal mines. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2022, 8, 1.	2.9	5
40	Temporal-spatial characterization of mining-induced seismicity in the vicinity of a dyke – A case study. <i>Engineering Geology</i> , 2022, 307, 106788.	6.3	2
41	The Assessment of CO ₂ Backproduction as a Technique for Potential Leakage Remediation at the Ketzin Pilot Site in Germany. <i>Energy Procedia</i> , 2017, 114, 4154-4163.	1.8	1
42	Laboratory characterisation of anisotropic and heterogeneous damage of rock sample using acoustic emission and ultrasonic monitoring technologies. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 861, 022040.	0.3	1