

Chenghao Wang

List of Publications by Year in descending order

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Version: 2024-02-01

33
papers

1,845
citations

279487

23
h-index

414034

32
g-index

33
all docs

33
docs citations

33
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	Reservoir properties of Chinese tectonic coal: A review. <i>Fuel</i> , 2020, 260, 116350.	3.4	197
2	Role of the rapid gas desorption of coal powders in the development stage of outbursts. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 491-501.	2.1	145
3	A Mathematical Model of Coupled Gas Flow and Coal Deformation with Gas Diffusion and Klinkenberg Effects. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1163-1180.	2.6	132
4	Experimental investigation on the formation and transport mechanism of outburst coal-gas flow: Implications for the role of gas desorption in the development stage of outburst. <i>International Journal of Coal Geology</i> , 2018, 194, 45-58.	1.9	128
5	Experimental Study of Coal and Gas Outbursts Related to Gas-Enriched Areas. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3769-3781.	2.6	99
6	Model development and analysis of the evolution of coal permeability under different boundary conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 129-138.	2.1	94
7	Effects of diffusion and suction negative pressure on coalbed methane extraction and a new measure to increase the methane utilization rate. <i>Fuel</i> , 2017, 197, 70-81.	3.4	94
8	A novel in-seam borehole hydraulic flushing gas extraction technology in the heading face: Enhanced permeability mechanism, gas flow characteristics, and application. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 498-514.	2.1	86
9	Experimental study on the effect of moisture on low-rank coal adsorption characteristics. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 245-251.	2.1	81
10	New insights into the CH ₄ adsorption capacity of coal based on microscopic pore properties. <i>Fuel</i> , 2020, 262, 116675.	3.4	78
11	Reservoir reconstruction technologies for coalbed methane recovery in deep and multiple seams. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 277-284.	4.6	67
12	Apparent and True Diffusion Coefficients of Methane in Coal and Their Relationships with Methane Desorption Capacity. <i>Energy & Fuels</i> , 2017, 31, 2643-2651.	2.5	66
13	An analysis of the gas-solid plug flow formation: New insights into the coal failure process during coal and gas outbursts. <i>Powder Technology</i> , 2017, 305, 39-47.	2.1	66
14	Role of Tectonic Coal in Coal and Gas Outburst Behavior During Coal Mining. <i>Rock Mechanics and Rock Engineering</i> , 2019, 52, 4619-4635.	2.6	58
15	Experimental study of the mechanical properties of intact and tectonic coal via compression of a single particle. <i>Powder Technology</i> , 2018, 325, 412-419.	2.1	51
16	Enhancement of gas drainage efficiency in a special thick coal seam through hydraulic flushing. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 124, 104085.	2.6	51
17	CMM capture engineering challenges and characteristics of in-situ stress distribution in deep level of Huainan coalfield. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 20, 328-336.	2.1	47
18	Investigation of the formation mechanism of coal spallation through the cross-coupling relations of multiple physical processes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 105, 133-144.	2.6	45

#	ARTICLE	IF	CITATIONS
19	Effects of coal pore structure on methane–coal sorption hysteresis: An experimental investigation based on fractal analysis and hysteresis evaluation. <i>Fuel</i> , 2020, 269, 117438.	3.4	42
20	Size effect on uniaxial compressive strength of single coal particle under different failure conditions. <i>Powder Technology</i> , 2019, 345, 169-181.	2.1	33
21	A Novel In-Seam Borehole Discontinuous Hydraulic Flushing Technology in the Driving Face of Soft Coal Seams: Enhanced Gas Extraction Mechanism and Field Application. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 885-907.	2.6	33
22	The Energy Principle of Coal and Gas Outbursts: Experimentally Evaluating the Role of Gas Desorption. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 11-30.	2.6	32
23	Influence of thermal metamorphism on CBM reservoir characteristics of low-rank bituminous coal. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 36, 916-930.	2.1	29
24	Surface energy of coal particles under quasi-static compression and dynamic impact based on fractal theory. <i>Fuel</i> , 2020, 264, 116835.	3.4	23
25	Powder Mass of Coal After Impact Crushing: A New Fractal-Theory-Based Index to Evaluate Rock Firmness. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4251-4270.	2.6	17
26	Experimental Investigation on the Mechanism of Coal and Gas Outburst: Novel Insights on the Formation and Development of Coal Spallation. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5807-5825.	2.6	13
27	Effect of dihalogen monomers embraced in main chain of low dielectric colorless fluorene-based poly(aryl ether)s on their performance. <i>Polymers for Advanced Technologies</i> , 2022, 33, 1846-1854.	1.6	8
28	A Novel Motion Compensation Algorithm Based on Motion Sensitivity Analysis for Mini-UAV-Based BiSAR System. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2022, 60, 1-13.	2.7	7
29	Pressure Relief Mechanism and Gas Extraction Method during the Mining of the Steep and Extra-Thick Coal Seam: A Case Study in the Yaojie No. 3 Coal Mine. <i>Energies</i> , 2022, 15, 3792.	1.6	7
30	Analysis of pulverized tectonic coal gas expansion energy in underground mines and its influence on the environment. <i>Environmental Science and Pollution Research</i> , 2020, 27, 1508-1520.	2.7	6
31	Potential infrasonic tremors in coal seam systems: Implications for the prediction of coal and gas outbursts. <i>Fuel</i> , 2022, 326, 125000.	3.4	6
32	Evidence for universal rupture behavior during coal and gas outbursts. <i>Fuel</i> , 2022, 324, 124592.	3.4	4
33	Passive GNSS-based SAR data acquisition and real-time preprocessing system. , 2019, , .		0