

Leilei Si

List of Publications by Year in descending order

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32
papers

923
citations

471509

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32
times ranked

495
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling for gas dissolution and diffusion in water-intrusion coal seam and its potential applications. <i>Fuel</i> , 2022, 307, 121786.	6.4	7
2	Dissolution characteristics of gas in mine water and its application on gas pressure measurement of water-intrusion coal seam. <i>Fuel</i> , 2022, 313, 123004.	6.4	10
3	A New Method for Determining the Sealing Depth of Extraction Borehole Based on the Constant-Pressure Gas Injection and its Applications. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 3703-3717.	5.4	2
4	Coal particle transport behavior in a rotating drill pipe used for negative pressure pneumatic conveying. <i>Powder Technology</i> , 2022, 402, 117369.	4.2	3
5	Experimental research of the surfactant effect on seepage law in coal seam water injection. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 103, 104612.	4.4	23
6	The influence of inorganic salt on coal-water wetting angle and its mechanism on eliminating water blocking effect. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 103, 104618.	4.4	14
7	Natural Frequency of Coal: Mathematical Model, Test, and Analysis on Influencing Factors. <i>Geofluids</i> , 2022, 2022, 1-13.	0.7	4
8	Study on gas production mechanism of medium- and low-rank coals excited by the external DC electric field. <i>Fuel</i> , 2022, 324, 124704.	6.4	10
9	Modeling and experiment for effective diffusion coefficient of gas in water-saturated coal. <i>Fuel</i> , 2021, 284, 118887.	6.4	103
10	Experimental study on variation law of electrical parameters and temperature rise effect of coal under DC electric field. <i>Scientific Reports</i> , 2021, 11, 7138.	3.3	4
11	The influence of long-time water intrusion on the mineral and pore structure of coal. <i>Fuel</i> , 2021, 290, 119848.	6.4	115
12	Pore Structure Characteristics and Evolution Law of Different-Rank Coal Samples. <i>Geofluids</i> , 2021, 2021, 1-17.	0.7	4
13	Stimulation Techniques of Coalbed Methane Reservoirs. <i>Geofluids</i> , 2020, 2020, 1-23.	0.7	20
14	The influence of closed pores on the gas transport and its application in coal mine gas extraction. <i>Fuel</i> , 2019, 254, 115605.	6.4	24
15	Evolution Characteristics of Gas Permeability Under Multiple Factors. <i>Transport in Porous Media</i> , 2019, 127, 415-432.	2.6	12
16	Experimental study on pore-fracture evolution law in the thermal damage process of coal. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 116, 13-24.	5.8	29
17	The stage evolution characteristics of gas transport during mine gas extraction: Its application in borehole layout for improving gas production. <i>Fuel</i> , 2019, 241, 164-175.	6.4	21
18	Influence of the Pore Geometry Structure on the Evolution of Gas Permeability. <i>Transport in Porous Media</i> , 2018, 123, 321-339.	2.6	15

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19	Coal permeability evolution with the interaction between nanopore and fracture: Its application in coal mine gas drainage for Qingdong coal mine in Huaibei coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 56, 523-535.	4.4	28
20	Study on test method of heat release intensity and thermophysical parameters of loose coal. <i>Fuel</i> , 2018, 229, 34-43.	6.4	51
21	Modeling and Application of Gas Pressure Measurement in Water-Saturated Coal Seam Based on Methane Solubility. <i>Transport in Porous Media</i> , 2017, 119, 163-179.	2.6	13
22	Study Governing the Impact of Long-Term Water Immersion on Coal Spontaneous Ignition. <i>Arabian Journal for Science and Engineering</i> , 2017, 42, 1359-1369.	3.0	56
23	Modeling of gas migration in water-intrusion coal seam and its inducing factors. <i>Fuel</i> , 2017, 210, 398-409.	6.4	24
24	SOM's Effect on Coal Spontaneous Combustion and Its Inhibition Efficiency. <i>Combustion Science and Technology</i> , 2017, 189, 2266-2283.	2.3	10
25	Identification of Primary CO in Coal Seam Based on Oxygen Isotope Method. <i>Combustion Science and Technology</i> , 2017, 189, 1924-1942.	2.3	5
26	Experimental Investigation for Pore Structure and CH ₄ Release Characteristics of Coal during Pulverization Process. <i>Energy & Fuels</i> , 2017, 31, 14357-14366.	5.1	30
27	Consolidation grouting technology for fire prevention in mined-out areas of working face with large inclined angle and its application. <i>Fire and Materials</i> , 2017, 41, 700-715.	2.0	26
28	Experimental Study on Effect of CO ₂ 's Alkaline Water Two-Phase Gas Displacement and Coal Wetting. <i>Energy & Fuels</i> , 2017, 31, 14374-14384.	5.1	17
29	Research on the Composition and Distribution of Organic Sulfur in Coal. <i>Molecules</i> , 2016, 21, 630.	3.8	40
30	Evolution of Coal Permeability with Cleat Deformation and Variable Klinkenberg Effect. <i>Transport in Porous Media</i> , 2016, 115, 153-167.	2.6	33
31	Effect of acid treatment on the characteristics and structures of high-sulfur bituminous coal. <i>Fuel</i> , 2016, 184, 418-429.	6.4	121
32	Improved Porosity and Permeability Models with Coal Matrix Block Deformation Effect. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3687-3697.	5.4	49