

Zenghua Li

List of Publications by Year in descending order

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57
papers

2,761
citations

147801

31
h-index

182427

51
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57
all docs

57
docs citations

57
times ranked

1230
citing authors

#	ARTICLE	IF	CITATIONS
1	An experimental study for characterization the process of coal oxidation and spontaneous combustion by electromagnetic radiation technique. <i>Chemical Engineering Research and Design</i> , 2018, 119, 285-294.	5.6	160
2	A review on the mechanism, risk evaluation, and prevention of coal spontaneous combustion in China. <i>Environmental Science and Pollution Research</i> , 2017, 24, 23453-23470.	5.3	141
3	Effect of acid treatment on the characteristics and structures of high-sulfur bituminous coal. <i>Fuel</i> , 2016, 184, 418-429.	6.4	121
4	Laboratory study on the inhibitory effect of free radical scavenger on coal spontaneous combustion. <i>Fuel Processing Technology</i> , 2018, 171, 350-360.	7.2	117
5	Free radical reaction characteristics of coal low-temperature oxidation and its inhibition method. <i>Environmental Science and Pollution Research</i> , 2016, 23, 23593-23605.	5.3	107
6	The effect of high temperature environment on rock properties—an example of electromagnetic radiation characterization. <i>Environmental Science and Pollution Research</i> , 2018, 25, 29104-29114.	5.3	105
7	Electromagnetic radiation characteristics and mechanical properties of deformed and fractured sandstone after high temperature treatment. <i>Engineering Geology</i> , 2016, 209, 82-92.	6.3	97
8	Examination of CO, CO ₂ and active sites formation during isothermal pyrolysis of coal at low temperatures. <i>Energy</i> , 2019, 185, 28-38.	8.8	94
9	Study on oxidation and gas release of active sites after low-temperature pyrolysis of coal. <i>Fuel</i> , 2018, 233, 237-246.	6.4	92
10	Study on the generation of active sites during low-temperature pyrolysis of coal and its influence on coal spontaneous combustion. <i>Fuel</i> , 2019, 241, 283-296.	6.4	90
11	Fracture Mechanical Behavior of Sandstone Subjected to High-Temperature Treatment and Its Acoustic Emission Characteristics Under Uniaxial Compression Conditions. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 4911-4918.	5.4	75
12	Acoustic emission signals frequency-amplitude characteristics of sandstone after thermal treated under uniaxial compression. <i>Journal of Applied Geophysics</i> , 2017, 136, 190-197.	2.1	72
13	Inhibitive Effects of Antioxidants on Coal Spontaneous Combustion. <i>Energy & Fuels</i> , 2017, 31, 14180-14190.	5.1	71
14	Pore structures and methane sorption characteristics of coal after extraction with tetrahydrofuran. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 19, 287-294.	4.4	67
15	STUDY ON THE FEATURE OF ELECTROMAGNETIC RADIATION UNDER COAL OXIDATION AND TEMPERATURE RISE BASED ON MULTIFRACTAL THEORY. <i>Fractals</i> , 2019, 27, 1950038.	3.7	66
16	CO ₂ injection in coal: Advantages and influences of temperature and pressure. <i>Fuel</i> , 2019, 236, 493-500.	6.4	63
17	Oxidative kinetic characteristics of dried soaked coal and its related spontaneous combustion mechanism. <i>Fuel</i> , 2021, 305, 121626.	6.4	62
18	Study on the change of organic sulfur forms in coal during low-temperature oxidation process. <i>Fuel</i> , 2018, 222, 350-361.	6.4	57

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19	Experimental study on the effect of mechanochemistry on coal spontaneous combustion. Powder Technology, 2018, 339, 102-110.	4.2	57
20	Effects of Organic Micromolecules in coal on its Pore Structure and Gas Diffusion Characteristics. Transport in Porous Media, 2015, 107, 419-433.	2.6	56
21	Study Governing the Impact of Long-Term Water Immersion on Coal Spontaneous Ignition. Arabian Journal for Science and Engineering, 2017, 42, 1359-1369.	3.0	56
22	Room temperature oxidation of active sites in coal under multi-factor conditions and corresponding reaction mechanism. Fuel, 2019, 256, 115901.	6.4	54
23	Study on test method of heat release intensity and thermophysical parameters of loose coal. Fuel, 2018, 229, 34-43.	6.4	51
24	Improved Porosity and Permeability Models with Coal Matrix Block Deformation Effect. Rock Mechanics and Rock Engineering, 2016, 49, 3687-3697.	5.4	49
25	Fine coal covering for preventing spontaneous combustion of coal pile. Natural Hazards, 2014, 74, 603-622.	3.4	46
26	Nonlinear characteristics of acoustic emissions during the deformation and fracture of sandstone subjected to thermal treatment. International Journal of Rock Mechanics and Minings Sciences, 2016, 90, 43-52.	5.8	46
27	Experimental study on the inhibitory effect of ethylenediaminetetraacetic acid (EDTA) on coal spontaneous combustion. Fuel Processing Technology, 2018, 178, 312-321.	7.2	42
28	Research on the Composition and Distribution of Organic Sulfur in Coal. Molecules, 2016, 21, 630.	3.8	40
29	Effects of pore structure and methane adsorption in coal with alkaline treatment. Fuel, 2019, 254, 115600.	6.4	34
30	Evolution of Coal Permeability with Cleat Deformation and Variable Klinkenberg Effect. Transport in Porous Media, 2016, 115, 153-167.	2.6	33
31	Insight into the chemical reaction process of coal self-heating after N ₂ drying. Fuel, 2019, 255, 115780.	6.4	33
32	Studies on the Low-Temp Oxidation of Coal Containing Organic Sulfur and the Corresponding Model Compounds. Molecules, 2015, 20, 22241-22256.	3.8	30
33	Experimental Investigation for Pore Structure and CH ₄ Release Characteristics of Coal during Pulverization Process. Energy & Fuels, 2017, 31, 14357-14366.	5.1	30
34	Experimental study on pore-fracture evolution law in the thermal damage process of coal. International Journal of Rock Mechanics and Minings Sciences, 2019, 116, 13-24.	5.8	29
35	The temperature rise characteristics of coal during the spontaneous combustion latency. Fuel, 2022, 326, 125086.	6.4	29
36	Time-varying characteristics of electromagnetic radiation during the coal-heating process. International Journal of Heat and Mass Transfer, 2017, 108, 434-442.	4.8	28

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37	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
38	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
39	Effect of adsorption-induced matrix deformation on coalbed methane transport analyzed using fractal theory. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 840-846.	4.4	24
40	Effects of low molecular weight compounds in coal on the characteristics of its spontaneous combustion. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 648-657.	1.7	24
41	Modeling of gas migration in water-intrusion coal seam and its inducing factors. <i>Fuel</i> , 2017, 210, 398-409.	6.4	24
42	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
43	Influence of alkaline solution injection for wettability and permeability of coal with CO ₂ injection. <i>Energy</i> , 2020, 202, 117799.	8.8	22
44	Influence of soluble organic matter on mechanical properties of coal and occurrence of coal and gas outburst. <i>Powder Technology</i> , 2018, 332, 8-17.	4.2	21
45	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
46	Study on the inhibition effect of citric acid on coal spontaneous combustion. <i>Fuel</i> , 2022, 310, 122268.	6.4	21
47	Fine characterization rock thermal damage by acoustic emission technique. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 1-12.	1.4	18
48	Experimental Study on Effect of CO ₂ Alkaline Water Two-Phase Gas Displacement and Coal Wetting. <i>Energy & Fuels</i> , 2017, 31, 14374-14384.	5.1	17
49	Experimental research on the emission of higher molecular weight gases during coal oxidation. <i>Fuel</i> , 2021, 300, 120906.	6.4	17
50	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
51	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
52	Evolution Characteristics of Gas Permeability Under Multiple Factors. <i>Transport in Porous Media</i> , 2019, 127, 415-432.	2.6	12
53	SOM's Effect on Coal Spontaneous Combustion and Its Inhibition Efficiency. <i>Combustion Science and Technology</i> , 2017, 189, 2266-2283.	2.3	10
54	Experimental Study on Pore-fracture Evolution Law in the Thermal Damage Process of Coal. <i>Combustion Science and Technology</i> , 2021, 193, 677-701.	2.3	9

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55	Oxidation Experiment of Coal Spontaneous Combustion Model Compounds. Asian Journal of Chemistry, 2013, 25, 441-446.	0.3	8
56	Identification of Primary CO in Coal Seam Based on Oxygen Isotope Method. Combustion Science and Technology, 2017, 189, 1924-1942.	2.3	5
57	Kinetic Analysis of the Generation of Active Sites During the Low-Temperature Pyrolysis of Coal. Combustion Science and Technology, 2024, 196, 352-370.	2.3	2