

Zenghua Li

List of Publications by Year in descending order

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Version: 2024-02-01

57
papers

2,761
citations

147801

31
h-index

182427

51
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docs citations

57
times ranked

1230
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Kinetic Analysis of the Generation of Active Sites During the Low-Temperature Pyrolysis of Coal. <i>Combustion Science and Technology</i> , 2024, 196, 352-370. | 2.3 | 2 |
| 2 | Study on the inhibition effect of citric acid on coal spontaneous combustion. <i>Fuel</i> , 2022, 310, 122268. | 6.4 | 21 |
| 3 | The temperature rise characteristics of coal during the spontaneous combustion latency. <i>Fuel</i> , 2022, 326, 125086. | 6.4 | 29 |
| 4 | 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 |
| 5 | Experimental research on the emission of higher molecular weight gases during coal oxidation. <i>Fuel</i> , 2021, 300, 120906. | 6.4 | 17 |
| 6 | Oxidative kinetic characteristics of dried soaked coal and its related spontaneous combustion mechanism. <i>Fuel</i> , 2021, 305, 121626. | 6.4 | 62 |
| 7 | Influence of alkaline solution injection for wettability and permeability of coal with CO ₂ injection. <i>Energy</i> , 2020, 202, 117799. | 8.8 | 22 |
| 8 | Room temperature oxidation of active sites in coal under multi-factor conditions and corresponding reaction mechanism. <i>Fuel</i> , 2019, 256, 115901. | 6.4 | 54 |
| 9 | 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 |
| 10 | 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 |
| 11 | Insight into the chemical reaction process of coal self-heating after N ₂ drying. <i>Fuel</i> , 2019, 255, 115780. | 6.4 | 33 |
| 12 | 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 |
| 13 | Effects of pore structure and methane adsorption in coal with alkaline treatment. <i>Fuel</i> , 2019, 254, 115600. | 6.4 | 34 |
| 14 | Evolution Characteristics of Gas Permeability Under Multiple Factors. <i>Transport in Porous Media</i> , 2019, 127, 415-432. | 2.6 | 12 |
| 15 | 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 |
| 16 | CO ₂ injection in coal: Advantages and influences of temperature and pressure. <i>Fuel</i> , 2019, 236, 493-500. | 6.4 | 63 |
| 17 | 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 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Fine characterization rock thermal damage by acoustic emission technique. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 1-12. | 1.4 | 18 |
| 24 | 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 |
| 25 | 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 |
| 26 | Experimental study on the inhibitory effect of ethylenediaminetetraacetic acid (EDTA) on coal spontaneous combustion. <i>Fuel Processing Technology</i> , 2018, 178, 312-321. | 7.2 | 42 |
| 27 | Experimental study on the effect of mechanochemistry on coal spontaneous combustion. <i>Powder Technology</i> , 2018, 339, 102-110. | 4.2 | 57 |
| 28 | Study on test method of heat release intensity and thermophysical parameters of loose coal. <i>Fuel</i> , 2018, 229, 34-43. | 6.4 | 51 |
| 29 | 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 |
| 30 | 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 |
| 31 | Time-varying characteristics of electromagnetic radiation during the coal-heating process. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 434-442. | 4.8 | 28 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Inhibitive Effects of Antioxidants on Coal Spontaneous Combustion. <i>Energy & Fuels</i> , 2017, 31, 14180-14190. | 5.1 | 71 |
| 36 | Modeling of gas migration in water-intrusion coal seam and its inducing factors. <i>Fuel</i> , 2017, 210, 398-409. | 6.4 | 24 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | SOM's Effect on Coal Spontaneous Combustion and Its Inhibition Efficiency. <i>Combustion Science and Technology</i> , 2017, 189, 2266-2283. | 2.3 | 10 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | Research on the Composition and Distribution of Organic Sulfur in Coal. <i>Molecules</i> , 2016, 21, 630. | 3.8 | 40 |
| 44 | 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 |
| 45 | 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 |
| 46 | Evolution of Coal Permeability with Cleat Deformation and Variable Klinkenberg Effect. <i>Transport in Porous Media</i> , 2016, 115, 153-167. | 2.6 | 33 |
| 47 | Effect of acid treatment on the characteristics and structures of high-sulfur bituminous coal. <i>Fuel</i> , 2016, 184, 418-429. | 6.4 | 121 |
| 48 | Nonlinear characteristics of acoustic emissions during the deformation and fracture of sandstone subjected to thermal treatment. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 90, 43-52. | 5.8 | 46 |
| 49 | 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 |
| 50 | 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 |
| 51 | Studies on the Low-Temp Oxidation of Coal Containing Organic Sulfur and the Corresponding Model Compounds. <i>Molecules</i> , 2015, 20, 22241-22256. | 3.8 | 30 |
| 52 | Effects of Organic Micromolecules in coal on its Pore Structure and Gas Diffusion Characteristics. <i>Transport in Porous Media</i> , 2015, 107, 419-433. | 2.6 | 56 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | Fine coal covering for preventing spontaneous combustion of coal pile. <i>Natural Hazards</i> , 2014, 74, 603-622. | 3.4 | 46 |
| 56 | 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 |
| 57 | Oxidation Experiment of Coal Spontaneous Combustion Model Compounds. <i>Asian Journal of Chemistry</i> , 2013, 25, 441-446. | 0.3 | 8 |