# He Li

List of Publications by Year
in descending order



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|---|---|---|---|
| 46 papers | 2,173 citations | 218677 26 h-index | 223800 46 g-index |
| 46 all docs | 46 docs citations | 46 times ranked | 1101 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Fracture and pore development law of coal under organic solvent erosion. Fuel, 2022, 307, 121815. | 6.4 | 13 |
| 2 | Evolutions of Pore and Crack Structure of Coal under Hot Steam Heating. Energy & Fuels, 2022, 36, 1417-1428. | 5.1 | 6 |
| 3 | Spectroscopic (FTIR, 1H NMR) and SEM investigation of physicochemical structure changes of coal subjected to microwave-assisted oxidant stimulation. Fuel, 2022, 317, 123473. | 6.4 | 40 |
| 4 | Thermodynamic analysis of moist coal during microwave heating using coupled electromagnetic, multi-phase heat and mass transfer model. Chemical Engineering Science, 2022, 255, 117690. | 3.8 | 11 |
| 5 | Influence of microwave-assisted oxidant stimulation on pore structure and fractal characteristics of bituminous coal based on low-temperature nitrogen adsorption. Fuel, 2022, 327, 125173. | 6.4 | 19 |
| 6 | Microwave-Induced Microstructure Evolution of Coal and Its Effects on the Methane Adsorption Characteristic. Energy & Fuels, 2021, 35, 4081-4090. | 5.1 | 33 |
| 7 | Experimental study on the influence of energy conversion in the process of load coal plasma breakdown. Energy, 2021, 218, 119469. | 8.8 | 15 |
| 8 | Effects of different conductive ions on pore-structure evolution of medium- and high-rank coal bodies induced by electric pulses. Fuel, 2021, 293, 120437. | 6.4 | 12 |
| 9 | The Research of Coal and Gas Outburst Warning Based on Logistic Regression and Geographic Information System. Shock and Vibration, 2021, 2021, 1-8. | 0.6 | 1 |
| 10 | Fracture Development Characteristics of Coal under Organic Solvent Erosion and Its Nondestructive Testing Method. Energy & Fuels, 2021, 35, 13788-13800. | 5.1 | 6 |
| 11 | Experimental study on the effect of high-voltage electrical pulses on the nanoscale pore structure of coal. Fuel, 2021, 306, 121621. | 6.4 | 14 |
| 12 | Experimental Research on Water Migration-Damage Characteristics of Lignite under Microwave Heating. Energy & Fuels, 2021, 35, 1058-1069. | 5.1 | 14 |
| 13 | Evolution of the Pore and Fracture Microstructure Inside Coal Impacted by a High-Voltage Electric Pulse after AlCl<sub>3</sub> Solution Treatment. Energy & Fuels, 2021, 35, 18484-18494. | 5.1 | 2 |
| 14 | Application of Inorganic Solidified Foam to Control the Coexistence of Unusual Methane Emission and Spontaneous Combustion of Coal in the Luwa Coal Mine, China. Combustion Science and Technology, 2020, 192, 638-656. | 2.3 | 15 |
| 15 | Study of Effects of Hard Thick Roof on Gas Migration and Field Experiment of Roof Artificially Guided Pre-splitting for Efficient Gas Control. Natural Resources Research, 2020, 29, 1819-1841. | 4.7 | 10 |
| 16 | Real-time analysis of the changing trends of functional groups and corresponding gas generated law during coal spontaneous combustion. Fuel Processing Technology, 2020, 199, 106237. | 7.2 | 57 |
| 17 | Delineation and Prevention of the Spontaneous Combustion Dangerous Area of Coal in a Regenerated Roof: A Case Study in the Zhoujing Coal Mine, China. Energy & Fuels, 2020, 34, 6401-6413. | 5.1 | 14 |
| 18 | A safe mining approach for deep outburst coal seam groups with hardâ€thick sandstone roof: Stepwise risk control based on gas diversion and extraction. Energy Science and Engineering, 2020, 8, 2946-2965. | 4.0 | 10 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Experimental Study on Coal Damage Subjected to Microwave Heating. Rock Mechanics and Rock Engineering, 2020, 53, 5631-5640. | 5.4 | 59 |
| 20 | Numerical Assessment of the Influences of the Coal Spontaneous Combustion on Gas Drainage Methods Optimization and Its Application. Combustion Science and Technology, 2020, , 1-17. | 2.3 | 6 |
| 21 | Drying kinetics of coal under microwave irradiation based on a coupled electromagnetic, heat transfer and multiphase porous media model. Fuel, 2019, 256, 115966. | 6.4 | 71 |
| 22 | Acetone erosion and its effect mechanism on pores and fractures in coal. Fuel, 2019, 253, 1282-1291. | 6.4 | 13 |
| 23 | Coalbed methane emissions and drainage methods in underground mining for mining safety and environmental benefits: A review. Chemical Engineering Research and Design, 2019, 127, 103-124. | 5.6 | 130 |
| 24 | A fully coupled electromagnetic, heat transfer and multiphase porous media model for microwave heating of coal. Fuel Processing Technology, 2019, 189, 49-61. | 7.2 | 136 |
| 25 | Mechanism of water inhibiting gas outburst and the field experiment of coal seam infusion promoted by blasting. Fuel, 2019, 251, 383-393. | 6.4 | 59 |
| 26 | Pore structure and multifractal analysis of coal subjected to microwave heating. Powder Technology, 2019, 346, 97-108. | 4.2 | 151 |
| 27 | Effect of moisture content on structural evolution characteristics of bituminous coal subjected to high-voltage electrical pulses. Fuel, 2019, 241, 571-578. | 6.4 | 63 |
| 28 | Changes in pore structure and permeability of anthracite coal before and after high-voltage electrical pulses treatment. Powder Technology, 2019, 343, 560-567. | 4.2 | 61 |
| 29 | Tunnelling outburst potential affected by mechanical properties of coal seam. Tunnelling and Underground Space Technology, 2019, 83, 99-112. | 6.2 | 40 |
| 30 | Structural Evolution Characteristics of Middleâ€“High Rank Coal Samples Subjected to High-Voltage Electrical Pulse. Energy & Fuels, 2018, 32, 3263-3271. | 5.1 | 65 |
| 31 | Outburst mechanism of tunnelling through coal seams and the safety strategy by using â€œstrong-weakâ€• coupling circle-layers. Tunnelling and Underground Space Technology, 2018, 74, 107-118. | 6.2 | 63 |
| 32 | Assessing the moisture migration during microwave drying of coal using low-field nuclear magnetic resonance. Drying Technology, 2018, 36, 567-577. | 3.1 | 31 |
| 33 | Numerical Simulation of a New Porous Medium Burner with Two Sections and Double Decks. Processes, 2018, 6, 185. | 2.8 | 7 |
| 34 | Microwave irradiation on pore morphology of coal powder. Fuel, 2018, 227, 434-447. | 6.4 | 33 |
| 35 | Dynamic diffusion-based multifield coupling model for gas drainage. Journal of Natural Gas Science and Engineering, 2017, 44, 233-249. | 4.4 | 86 |
| 36 | An integrated technology for gas control and green mining in deep mines based on ultra-thin seam mining. Environmental Earth Sciences, 2017, 76, 1. | 2.7 | 32 |

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|---|---|---|---|
| 37 | Mechanical behavior and failure mechanism of pre-cracked specimen under uniaxial compression. Tectonophysics, 2017, 712-713, 330-343. | 2.2 | 39 |
| 38 | A fully coupled electromagnetic-thermal-mechanical model for coalbed methane extraction with microwave heating. Journal of Natural Gas Science and Engineering, 2017, 46, 830-844. | 4.4 | 65 |
| 39 | Evolution of Coal Petrophysical Properties under Microwave Irradiation Stimulation for Different Water Saturation Conditions. Energy & Fuels, 2017, 31, 8852-8864. | 5.1 | 49 |
| 40 | Impact of matrixâ€“fracture interactions on coal permeability: Model development and analysis. Fuel, 2017, 207, 522-532. | 6.4 | 174 |
| 41 | Effect of microwave irradiation on petrophysical characterization of coals. Applied Thermal Engineering, 2016, 102, 1109-1125. | 6.0 | 64 |
| 42 | Influence of Microwave Energy on Fractal Dimension of Coal Cores: Implications from Nuclear Magnetic Resonance. Energy & Fuels, 2016, 30, 10253-10259. | 5.1 | 27 |
| 43 | Experimental study on removing water blocking effect (WBE) from two aspects of the pore negative pressure and surfactants. Journal of Natural Gas Science and Engineering, 2016, 31, 596-602. | 4.4 | 93 |
| 44 | Three-dimensional simulation of microwave heating coal sample with varying parameters. Applied Thermal Engineering, 2016, 93, 1145-1154. | 6.0 | 125 |
| 45 | Effects of an underlying drainage gallery on coal bed methane capture effectiveness and the mechanical behavior of a gate road. Journal of Natural Gas Science and Engineering, 2015, 27, 616-631. | 4.4 | 23 |
| 46 | The effect of pulse frequency on the fracture extension during hydraulic fracturing. Journal of Natural Gas Science and Engineering, 2014, 21, 296-303. | 4.4 | 116 |