

# He Li

## List of Publications by Year in descending order

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46  
papers

2,173  
citations

218677

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1101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Impact of matrix–fracture interactions on coal permeability: Model development and analysis. <i>Fuel</i> , 2017, 207, 522-532.	6.4	174
2	Pore structure and multifractal analysis of coal subjected to microwave heating. <i>Powder Technology</i> , 2019, 346, 97-108.	4.2	151
3	A fully coupled electromagnetic, heat transfer and multiphase porous media model for microwave heating of coal. <i>Fuel Processing Technology</i> , 2019, 189, 49-61.	7.2	136
4	Coalbed methane emissions and drainage methods in underground mining for mining safety and environmental benefits: A review. <i>Chemical Engineering Research and Design</i> , 2019, 127, 103-124.	5.6	130
5	Three-dimensional simulation of microwave heating coal sample with varying parameters. <i>Applied Thermal Engineering</i> , 2016, 93, 1145-1154.	6.0	125
6	The effect of pulse frequency on the fracture extension during hydraulic fracturing. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 296-303.	4.4	116
7	Experimental study on removing water blocking effect (WBE) from two aspects of the pore negative pressure and surfactants. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 596-602.	4.4	93
8	Dynamic diffusion-based multifield coupling model for gas drainage. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 44, 233-249.	4.4	86
9	Drying kinetics of coal under microwave irradiation based on a coupled electromagnetic, heat transfer and multiphase porous media model. <i>Fuel</i> , 2019, 256, 115966.	6.4	71
10	A fully coupled electromagnetic-thermal-mechanical model for coalbed methane extraction with microwave heating. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 830-844.	4.4	65
11	Structural Evolution Characteristics of Middle–High Rank Coal Samples Subjected to High-Voltage Electrical Pulse. <i>Energy &amp; Fuels</i> , 2018, 32, 3263-3271.	5.1	65
12	Effect of microwave irradiation on petrophysical characterization of coals. <i>Applied Thermal Engineering</i> , 2016, 102, 1109-1125.	6.0	64
13	Outburst mechanism of tunnelling through coal seams and the safety strategy by using –strong-weak– coupling circle-layers. <i>Tunnelling and Underground Space Technology</i> , 2018, 74, 107-118.	6.2	63
14	Effect of moisture content on structural evolution characteristics of bituminous coal subjected to high-voltage electrical pulses. <i>Fuel</i> , 2019, 241, 571-578.	6.4	63
15	Changes in pore structure and permeability of anthracite coal before and after high-voltage electrical pulses treatment. <i>Powder Technology</i> , 2019, 343, 560-567.	4.2	61
16	Mechanism of water inhibiting gas outburst and the field experiment of coal seam infusion promoted by blasting. <i>Fuel</i> , 2019, 251, 383-393.	6.4	59
17	Experimental Study on Coal Damage Subjected to Microwave Heating. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5631-5640.	5.4	59
18	Real-time analysis of the changing trends of functional groups and corresponding gas generated law during coal spontaneous combustion. <i>Fuel Processing Technology</i> , 2020, 199, 106237.	7.2	57

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19	Evolution of Coal Petrophysical Properties under Microwave Irradiation Stimulation for Different Water Saturation Conditions. <i>Energy &amp; Fuels</i> , 2017, 31, 8852-8864.	5.1	49
20	Tunnelling outburst potential affected by mechanical properties of coal seam. <i>Tunnelling and Underground Space Technology</i> , 2019, 83, 99-112.	6.2	40
21	Spectroscopic (FTIR, <sup>1</sup> H NMR) and SEM investigation of physicochemical structure changes of coal subjected to microwave-assisted oxidant stimulation. <i>Fuel</i> , 2022, 317, 123473.	6.4	40
22	Mechanical behavior and failure mechanism of pre-cracked specimen under uniaxial compression. <i>Tectonophysics</i> , 2017, 712-713, 330-343.	2.2	39
23	Microwave irradiation on pore morphology of coal powder. <i>Fuel</i> , 2018, 227, 434-447.	6.4	33
24	Microwave-Induced Microstructure Evolution of Coal and Its Effects on the Methane Adsorption Characteristic. <i>Energy &amp; Fuels</i> , 2021, 35, 4081-4090.	5.1	33
25	An integrated technology for gas control and green mining in deep mines based on ultra-thin seam mining. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	2.7	32
26	Assessing the moisture migration during microwave drying of coal using low-field nuclear magnetic resonance. <i>Drying Technology</i> , 2018, 36, 567-577.	3.1	31
27	Influence of Microwave Energy on Fractal Dimension of Coal Cores: Implications from Nuclear Magnetic Resonance. <i>Energy &amp; Fuels</i> , 2016, 30, 10253-10259.	5.1	27
28	Effects of an underlying drainage gallery on coal bed methane capture effectiveness and the mechanical behavior of a gate road. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 616-631.	4.4	23
29	Influence of microwave-assisted oxidant stimulation on pore structure and fractal characteristics of bituminous coal based on low-temperature nitrogen adsorption. <i>Fuel</i> , 2022, 327, 125173.	6.4	19
30	Application of Inorganic Solidified Foam to Control the Coexistence of Unusual Methane Emission and Spontaneous Combustion of Coal in the Luwa Coal Mine, China. <i>Combustion Science and Technology</i> , 2020, 192, 638-656.	2.3	15
31	Experimental study on the influence of energy conversion in the process of load coal plasma breakdown. <i>Energy</i> , 2021, 218, 119469.	8.8	15
32	Delineation and Prevention of the Spontaneous Combustion Dangerous Area of Coal in a Regenerated Roof: A Case Study in the Zhoujing Coal Mine, China. <i>Energy &amp; Fuels</i> , 2020, 34, 6401-6413.	5.1	14
33	Experimental study on the effect of high-voltage electrical pulses on the nanoscale pore structure of coal. <i>Fuel</i> , 2021, 306, 121621.	6.4	14
34	Experimental Research on Water Migration-Damage Characteristics of Lignite under Microwave Heating. <i>Energy &amp; Fuels</i> , 2021, 35, 1058-1069.	5.1	14
35	Acetone erosion and its effect mechanism on pores and fractures in coal. <i>Fuel</i> , 2019, 253, 1282-1291.	6.4	13
36	Fracture and pore development law of coal under organic solvent erosion. <i>Fuel</i> , 2022, 307, 121815.	6.4	13

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37	Effects of different conductive ions on pore-structure evolution of medium- and high-rank coal bodies induced by electric pulses. <i>Fuel</i> , 2021, 293, 120437.	6.4	12
38	Thermodynamic analysis of moist coal during microwave heating using coupled electromagnetic, multi-phase heat and mass transfer model. <i>Chemical Engineering Science</i> , 2022, 255, 117690.	3.8	11
39	Study of Effects of Hard Thick Roof on Gas Migration and Field Experiment of Roof Artificially Guided Pre-splitting for Efficient Gas Control. <i>Natural Resources Research</i> , 2020, 29, 1819-1841.	4.7	10
40	A safe mining approach for deep outburst coal seam groups with hard & thick sandstone roof: Stepwise risk control based on gas diversion and extraction. <i>Energy Science and Engineering</i> , 2020, 8, 2946-2965.	4.0	10
41	Numerical Simulation of a New Porous Medium Burner with Two Sections and Double Decks. <i>Processes</i> , 2018, 6, 185.	2.8	7
42	Numerical Assessment of the Influences of the Coal Spontaneous Combustion on Gas Drainage Methods Optimization and Its Application. <i>Combustion Science and Technology</i> , 2020, , 1-17.	2.3	6
43	Fracture Development Characteristics of Coal under Organic Solvent Erosion and Its Nondestructive Testing Method. <i>Energy &amp; Fuels</i> , 2021, 35, 13788-13800.	5.1	6
44	Evolutions of Pore and Crack Structure of Coal under Hot Steam Heating. <i>Energy &amp; Fuels</i> , 2022, 36, 1417-1428.	5.1	6
45	Evolution of the Pore and Fracture Microstructure Inside Coal Impacted by a High-Voltage Electric Pulse after AlCl <sub>3</sub> Solution Treatment. <i>Energy &amp; Fuels</i> , 2021, 35, 18484-18494.	5.1	2
46	The Research of Coal and Gas Outburst Warning Based on Logistic Regression and Geographic Information System. <i>Shock and Vibration</i> , 2021, 2021, 1-8.	0.6	1