

Yuan-ping Cheng

List of Publications by Year in descending order

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76
papers

5,070
citations

61984

43
h-index

91884

69
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76
all docs

76
docs citations

76
times ranked

2097
citing authors

#	ARTICLE	IF	CITATIONS
1	Calculation of gas concentration-dependent diffusion coefficient in coal particles: Influencing mechanism of gas pressure and desorption time on diffusion behavior. <i>Fuel</i> , 2022, 320, 123973.	6.4	16
2	Influence of matrix size and pore damage path on the size dependence of gas adsorption capacity of coal. <i>Fuel</i> , 2021, 283, 119289.	6.4	32
3	Effects of pore morphology and moisture on CBM-related sorption-induced coal deformation: An experimental investigation. <i>Energy Science and Engineering</i> , 2021, 9, 1180-1201.	4.0	8
4	Influence of tectonic evolution on pore structure and fractal characteristics of coal by low pressure gas adsorption. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 87, 103788.	4.4	26
5	Thermal Evolution Characteristics of the Pore Structure in Coal and Its Dominant Factor Conversion. <i>Energy & Fuels</i> , 2021, 35, 13712-13721.	5.1	4
6	Experimental study on influence of adsorption equilibrium time on methane adsorption isotherm and Langmuir parameter. <i>Advanced Powder Technology</i> , 2021, 32, 4110-4119.	4.1	20
7	Threshold pressure gradient for helium seepage in coal and its application to equivalent seepage channel characterization. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104231.	4.4	8
8	Experimental study on methane adsorption and time-dependent dynamic diffusion coefficient of intact and tectonic coals: Implications for CO ₂ -enhanced coalbed methane projects. <i>Chemical Engineering Research and Design</i> , 2021, 156, 568-580.	5.6	20
9	Reservoir properties of Chinese tectonic coal: A review. <i>Fuel</i> , 2020, 260, 116350.	6.4	197
10	New insights into the CH ₄ adsorption capacity of coal based on microscopic pore properties. <i>Fuel</i> , 2020, 262, 116675.	6.4	78
11	Investigation of the fractal characteristics of adsorption pores and their impact on the methane adsorption capacity of various rank coals via N ₂ and H ₂ O adsorption methods. <i>Energy Science and Engineering</i> , 2020, 8, 3228-3243.	4.0	23
12	Effects of equilibrium time and adsorption models on the characterization of coal pore structures based on statistical analysis of adsorption equilibrium and disequilibrium data. <i>Fuel</i> , 2020, 281, 118770.	6.4	15
13	Asynchronous difference in dynamic characteristics of adsorption swelling and mechanical compression of coal: Modeling and experiments. <i>International Journal of Rock Mechanics and Mining Sciences</i> , 2020, 135, 104498.	5.8	43
14	Effects of coal pore structure on methane-coal sorption hysteresis: An experimental investigation based on fractal analysis and hysteresis evaluation. <i>Fuel</i> , 2020, 269, 117438.	6.4	42
15	Gas transport through coal particles: Matrix-flux controlled or fracture-flux controlled?. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103216.	4.4	27
16	Evolution of gas transport pattern with the variation of coal particle size: Kinetic model and experiments. <i>Powder Technology</i> , 2020, 367, 336-346.	4.2	18
17	Effect of particle size and adsorption equilibrium time on pore structure characterization in low pressure N ₂ adsorption of coal: An experimental study. <i>Advanced Powder Technology</i> , 2020, 31, 4275-4281.	4.1	49
18	Hydraulic flushing in soft coal sublayer: Gas extraction enhancement mechanism and field application. <i>Energy Science and Engineering</i> , 2019, 7, 1970-1993.	4.0	16

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19	Effect of Pulverization on the Microporous and Ultramicroporous Structures of Coal Using Low-Pressure CO ₂ Adsorption. <i>Energy & Fuels</i> , 2019, 33, 10611-10621.	5.1	20
20	Experimental investigation on the mechanical characteristics of gas-bearing coal considering the impact of moisture. <i>Arabian Journal of Geosciences</i> , 2019, 12, 1.	1.3	24
21	Gas diffusion in coal particles: A review of mathematical models and their applications. <i>Fuel</i> , 2019, 252, 77-100.	6.4	214
22	Experimental study of pore structure and fractal characteristics of pulverized intact coal and tectonic coal by low temperature nitrogen adsorption. <i>Powder Technology</i> , 2019, 350, 15-25.	4.2	124
23	Experimental investigation on coal pore and fracture characteristics based on fractal theory. <i>Powder Technology</i> , 2019, 346, 341-349.	4.2	108
24	Molecular structure characterization of middle-high rank coal via XRD, Raman and FTIR spectroscopy: Implications for coalification. <i>Fuel</i> , 2019, 239, 559-572.	6.4	257
25	Investigation of the formation mechanism of coal spallation through the cross-coupling relations of multiple physical processes. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 105, 133-144.	5.8	45
26	Master role conversion between diffusion and seepage on coalbed methane production: Implications for adjusting suction pressure on extraction borehole. <i>Fuel</i> , 2018, 223, 373-384.	6.4	45
27	Pulverization characteristics of coal affected by magmatic intrusion and analysis of the abnormal gas desorption index on drill cuttings. <i>Adsorption Science and Technology</i> , 2018, 36, 805-829.	3.2	8
28	Impact of inherent moisture on the methane adsorption characteristics of coals with various degrees of metamorphism. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 55, 312-320.	4.4	67
29	Experimental investigation on the formation and transport mechanism of outburst coal-gas flow: Implications for the role of gas desorption in the development stage of outburst. <i>International Journal of Coal Geology</i> , 2018, 194, 45-58.	5.0	128
30	Characteristics of microscopic pore structure and fractal dimension of bituminous coal by cyclic gas adsorption/desorption: An experimental study. <i>Fuel</i> , 2018, 232, 495-505.	6.4	77
31	Apparent and True Diffusion Coefficients of Methane in Coal and Their Relationships with Methane Desorption Capacity. <i>Energy & Fuels</i> , 2017, 31, 2643-2651.	5.1	66
32	Effects of Supercritical CO ₂ Fluids on Pore Morphology of Coal: Implications for CO ₂ Geological Sequestration. <i>Energy & Fuels</i> , 2017, 31, 4731-4741.	5.1	80
33	Experimental study on the effect of inherent moisture on hard coal adsorption-desorption characteristics. <i>Adsorption</i> , 2017, 23, 723-742.	3.0	31
34	Modeling and experiments for transient diffusion coefficients in the desorption of methane through coal powders. <i>International Journal of Heat and Mass Transfer</i> , 2017, 110, 845-854.	4.8	81
35	Effects of diffusion and suction negative pressure on coalbed methane extraction and a new measure to increase the methane utilization rate. <i>Fuel</i> , 2017, 197, 70-81.	6.4	94
36	A novel in-seam borehole hydraulic flushing gas extraction technology in the heading face: Enhanced permeability mechanism, gas flow characteristics, and application. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 498-514.	4.4	86

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37	Mechanical failure mechanisms and forms of normal and deformed coal combination containing gas: Model development and analysis. <i>Engineering Failure Analysis</i> , 2017, 80, 241-252.	4.0	86
38	Numerical assessment of the influences of coal permeability and gas pressure inhomogeneous distributions on gas drainage optimization. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 45, 797-811.	4.4	17
39	An analysis of the gas-solid plug flow formation: New insights into the coal failure process during coal and gas outbursts. <i>Powder Technology</i> , 2017, 305, 39-47.	4.2	66
40	Effects of Igneous Intrusions on Coal Pore Structure, Methane Desorption and Diffusion within Coal, and Gas Occurrence. <i>Environmental and Engineering Geoscience</i> , 2017, 23, 191-207.	0.9	15
41	Unsteady-State Diffusion of Gas in Coals and Its Relationship with Coal Pore Structure. <i>Energy & Fuels</i> , 2016, 30, 7014-7024.	5.1	49
42	Experimental Investigation of Pore Structure Damage in Pulverized Coal: Implications for Methane Adsorption and Diffusion Characteristics. <i>Energy & Fuels</i> , 2016, 30, 10383-10395.	5.1	99
43	Role of the rapid gas desorption of coal powders in the development stage of outbursts. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 491-501.	4.4	145
44	Evaluation of the remote lower protective seam mining for coal mine gas control: A typical case study from the Zhuxianzhuang Coal Mine, Huaibei Coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 44-55.	4.4	62
45	Experimental Study of Coal and Gas Outbursts Related to Gas-Enriched Areas. <i>Rock Mechanics and Rock Engineering</i> , 2016, 49, 3769-3781.	5.4	99
46	Gas desorption index of drill cuttings affected by magmatic sills for predicting outbursts in coal seams. <i>Arabian Journal of Geosciences</i> , 2016, 9, 1.	1.3	17
47	Gas desorption characteristics of the high-rank intact coal and fractured coal. <i>International Journal of Mining Science and Technology</i> , 2015, 25, 819-825.	10.3	40
48	Coupled disaster-causing mechanisms of strata pressure behavior and abnormal gas emissions in underground coal extraction. <i>Environmental Earth Sciences</i> , 2015, 74, 6717-6735.	2.7	31
49	Addressing the CO ₂ emissions of the world's largest coal producer and consumer: Lessons from the Haishiwang Coalfield, China. <i>Energy</i> , 2015, 80, 400-413.	8.8	80
50	A Langmuir-like desorption model for reflecting the inhomogeneous pore structure of coal and its experimental verification. <i>RSC Advances</i> , 2015, 5, 2434-2440.	3.6	15
51	Fracture failure analysis of hard "thick sandstone roof and its controlling effect on gas emission in underground ultra-thick coal extraction. <i>Engineering Failure Analysis</i> , 2015, 54, 150-162.	4.0	89
52	Experimental study on the effect of moisture on low-rank coal adsorption characteristics. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 24, 245-251.	4.4	81
53	A new method for accurate and rapid measurement of underground coal seam gas content. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 1388-1398.	4.4	58
54	The effect of sedimentary redbeds on coalbed methane occurrence in the Xutuan and Zhaoji Coal Mines, Huaibei Coalfield, China. <i>International Journal of Coal Geology</i> , 2015, 137, 111-123.	5.0	45

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55	A Mathematical Model of Coupled Gas Flow and Coal Deformation with Gas Diffusion and Klinkenberg Effects. <i>Rock Mechanics and Rock Engineering</i> , 2015, 48, 1163-1180.	5.4	132
56	Numerical assessment of the effect of equilibration time on coal permeability evolution characteristics. <i>Fuel</i> , 2015, 140, 81-89.	6.4	86
57	Evaluation of coal swelling-controlled CO ₂ diffusion processes. , 2014, 4, 131-139.		10
58	A new effective method and new materials for high sealing performance of cross-measure CMM drainage boreholes. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 21, 805-813.	4.4	49
59	The impact of faults on the occurrence of coal bed methane in Renlou coal mine, Huaibei coalfield, China. <i>Journal of Natural Gas Science and Engineering</i> , 2014, 17, 151-158.	4.4	43
60	Effect of bedding structural diversity of coal on permeability evolution and gas disasters control with coal mining. <i>Natural Hazards</i> , 2014, 73, 531-546.	3.4	49
61	Characteristics of gas disaster in the Huaibei coalfield and its control and development technologies. <i>Natural Hazards</i> , 2014, 71, 85-107.	3.4	58
62	Influence of Coalification on the Pore Characteristics of Middle-High Rank Coal. <i>Energy & Fuels</i> , 2014, 28, 5729-5736.	5.1	140
63	Thermal effects of magmatic sills on coal seam metamorphism and gas occurrence. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	26
64	Application of in-seam directional drilling technology for gas drainage with benefits to gas outburst control and greenhouse gas reductions in Daning coal mine, China. <i>Natural Hazards</i> , 2014, 73, 1419-1437.	3.4	43
65	A sequential approach to control gas for the extraction of multi-gassy coal seams from traditional gas well drainage to mining-induced stress relief. <i>Applied Energy</i> , 2014, 131, 67-78.	10.1	111
66	The evolution of permeability and gas composition during remote protective longwall mining and stress-relief gas drainage: a case study of the underground Haishiwan Coal Mine. <i>Geosciences Journal</i> , 2014, 18, 427-437.	1.2	30
67	Effect of Adsorption Contact Time on Coking Coal Particle Desorption Characteristics. <i>Energy & Fuels</i> , 2014, 28, 2287-2296.	5.1	54
68	Gas outburst disasters and the mining technology of key protective seam in coal seam group in the Huainan coalfield. <i>Natural Hazards</i> , 2013, 67, 763-782.	3.4	104
69	The controlling effect of thick-hard igneous rock on pressure relief gas drainage and dynamic disasters in outburst coal seams. <i>Natural Hazards</i> , 2013, 66, 1221-1241.	3.4	57
70	A numerical model for outburst including the effect of adsorbed gas on coal deformation and mechanical properties. <i>Computers and Geotechnics</i> , 2013, 54, 222-231.	4.7	159
71	The effect of small micropores on methane adsorption of coals from Northern China. <i>Adsorption</i> , 2013, 19, 83-90.	3.0	73
72	Safety technologies for the excavation of coal and gas outburst-prone coal seams in deep shafts. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2013, 57, 24-33.	5.8	69

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73	Drainage and utilization of Chinese coal mine methane with a coal-methane co-exploitation model: Analysis and projections. Resources Policy, 2012, 37, 315-321.	9.6	71
74	Safety line method for the prediction of deep coal-seam gas pressure and its application in coal mines. Safety Science, 2012, 50, 523-529.	4.9	81
75	Petrographic and geochemical effects of sill intrusions on coal and their implications for gas outbursts in the Wolonghu Mine, Huaibei Coalfield, China. International Journal of Coal Geology, 2011, 88, 55-66.	5.0	100
76	Environmental impact of coal mine methane emissions and responding strategies in China. International Journal of Greenhouse Gas Control, 2011, 5, 157-166.	4.6	234