

Shimin Liu

List of Publications by Year in descending order

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190
papers

8,959
citations

36203

51
h-index

53109

85
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193
all docs

193
docs citations

193
times ranked

4709
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental evaluation of ultrasound treatment induced pore structure and gas desorption behavior alterations of coal. <i>Fuel</i> , 2022, 307, 121855.	3.4	35
2	CO ₂ Gas Fracturing in High Dip Angled Coal Seams for Improved Gas Drainage Efficiency at Hashatu Coal Mine. <i>Energy & Fuels</i> , 2022, 36, 2763-2774.	2.5	4
3	Quantification of Temperature-Dependent Sorption Isotherms in Shale Gas Reservoirs: Experiment and Theory. <i>SPE Journal</i> , 2022, 27, 3001-3019.	1.7	2
4	A Thermodynamic Method for the Estimation of Free Gas Proportion in Depressurization Production of Natural Gas Hydrate. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	0
5	Mechanical property alterations across coal matrix due to water-CO ₂ treatments: A micro-to-nano scale experimental study. <i>Energy</i> , 2022, 248, 123575.	4.5	9
6	<i>In Situ</i> Stress Distribution and Variation Monitored by Microseismic Tracking on a Fractured Horizontal Well: A Case Study from the Qinshui Basin. <i>ACS Omega</i> , 2022, 7, 14363-14370.	1.6	2
7	Evaluating the Pressure-Dependent Equivalent Permeability Evolutions for Shale Matrix: Experiments and Modeling. , 2022, , .		0
8	Oxyfluoride glass-ceramics for upconversion all-optical combinational logic gate operations. <i>Cell Reports Physical Science</i> , 2022, 3, 100871.	2.8	8
9	Characterization of physical and mineralogical properties of anthracite and bituminous coal tailings. <i>International Journal of Coal Preparation and Utilization</i> , 2021, 41, 645-660.	1.2	3
10	A novel experimental system for accurate gas sorption and its application to various shale rocks. <i>Chemical Engineering Research and Design</i> , 2021, 165, 180-191.	2.7	14
11	Evaluating the changes of sorption and diffusion behaviors of Illinois coal with various water-based fracturing fluid treatments. <i>Fuel</i> , 2021, 283, 118884.	3.4	54
12	Multi-Angle Investigation of the Fractal Characteristics of Nanoscale Pores in the Lower Cambrian Niutitang Shale and Their Implications for CH ₄ Adsorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 156-167.	0.9	8
13	Unraveling high-pressure gas storage mechanisms in shale nanopores through SANS. <i>Environmental Science: Nano</i> , 2021, 8, 2706-2717.	2.2	5
14	Permeability Evolution of Fractured Sorptive Geomaterials: A Theoretical Study on Coalbed Methane Reservoir. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3507-3525.	2.6	10
15	Carbonate Caprockâ€œBrineâ€œCarbon Dioxide Interaction: Alteration of Hydromechanical Properties and Implications on Carbon Dioxide Leakage. <i>SPE Journal</i> , 2021, 26, 2780-2792.	1.7	9
16	Comparisons of Methane Adsorption/Desorption, Diffusion Behaviors on Intact Coals and Deformed Coals: Based on Experimental Analysis and Isothermic Heat of Adsorption. <i>Energy & Fuels</i> , 2021, 35, 5975-5987.	2.5	24
17	Investigation of Fluid-Injection-Induced Coal Stiffness Alteration using a Single-Core Multistage Triaxial Test. <i>International Journal of Coal Geology</i> , 2021, 237, 103692.	1.9	4
18	Water sorption on coal: effects of oxygen-containing function groups and pore structure. <i>International Journal of Coal Science and Technology</i> , 2021, 8, 983-1002.	2.7	56

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19	Occurrence of fluids in high dip angled coal measures: Geological and geochemical assessments for southern Junggar Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 88, 103827.	2.1	6
20	Role of VES-based fracturing fluid on gas sorption and diffusion of coal: An experimental study of Illinois basin coal. <i>Chemical Engineering Research and Design</i> , 2021, 148, 1243-1253.	2.7	15
21	Special Issue on mine dust research: health effects and control technologies. <i>International Journal of Coal Science and Technology</i> , 2021, 8, 177-178.	2.7	4
22	Quantifying and Modeling of In Situ Stress Evolutions of Coal Reservoirs for Helium, Methane, Nitrogen and CO ₂ Depletions. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3701-3719.	2.6	13
23	Novel Model for Rate Transient Analysis in Stress-Sensitive Shale Gas Reservoirs. <i>ACS Omega</i> , 2021, 6, 14015-14029.	1.6	1
24	Evaluation of pore properties in coal through compressibility correction based on mercury intrusion porosimetry: A practical approach. <i>Fuel</i> , 2021, 291, 120130.	3.4	41
25	The role of sorption-induced coal matrix shrinkage on permeability and stress evolutions under replicated in situ condition for CBM reservoirs. <i>Fuel</i> , 2021, 294, 120530.	3.4	27
26	Dual-Wavelength Responsive Broad Range Multicolor Upconversion Luminescence for High-Capacity Photonic Barcodes. <i>Advanced Optical Materials</i> , 2021, 9, 2100197.	3.6	21
27	Laboratory investigation on pore characteristics of coals with consideration of various tectonic deformations. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 91, 103960.	2.1	8
28	Investigating Hierarchical Gas Confinement in High-Rank Coal through Small-Angle Neutron Scattering. <i>Energy & Fuels</i> , 2021, 35, 13109-13123.	2.5	2
29	Probing Nanomechanical Properties of a Shale with Nanoindentation: Heterogeneity and the Effect of Water-Shale Interactions. <i>Energy & Fuels</i> , 2021, 35, 11930-11946.	2.5	11
30	Characterization of nano-to-micron sized respirable coal dust: Particle surface alteration and the health impact. <i>Journal of Hazardous Materials</i> , 2021, 413, 125447.	6.5	52
31	Cryogenic Dependent Energy Manipulation in Nonthermally Coupled Levels for Multicolor Upconversion Luminescence. <i>Journal of Physical Chemistry C</i> , 2021, 125, 19040-19047.	1.5	8
32	Experimental study on the adverse effect of gel fracturing fluid on gas sorption behavior for Illinois coal. <i>International Journal of Coal Science and Technology</i> , 2021, 8, 1250-1261.	2.7	21
33	Integrated modeling of multi-scale transport in coal and its application for coalbed methane recovery. <i>Fuel</i> , 2021, 300, 120971.	3.4	26
34	Quantification of Temperature-Dependent Sorption Kinetics in Shale Gas Reservoirs: Experiment and Theory. , 2021, , .		3
35	A fully-coupled water-vapor flow and rock deformation/damage model for shale and coal: Its application for mine stability evaluation. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 146, 104880.	2.6	12
36	The molecular model of Marcellus shale kerogen: Experimental characterization and structure reconstruction. <i>International Journal of Coal Geology</i> , 2021, 246, 103833.	1.9	29

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37	The characteristics and its implications of hydraulic fracturing in hydrate-bearing clayey silt. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104189.	2.1	27
38	Coal wettability in coalbed methane production: A critical review. <i>Fuel</i> , 2021, 303, 121277.	3.4	42
39	Nanoscale Coal Deformation and Alteration of Porosity and Pore Orientation Under Uniaxial Compression: An In Situ SANS Study. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 3593-3608.	2.6	7
40	Cryogenic enabled multicolor upconversion luminescence of $\text{KLa}(\text{MoO}_4)_2 \cdot \text{Yb}^{3+} / \text{Ho}^{3+}$ for dual-mode anti-counterfeiting. <i>Dalton Transactions</i> , 2021, 50, 12234-12241.	1.6	16
41	Respirable nano-particulate generations and their pathogenesis in mining workplaces: a review. <i>International Journal of Coal Science and Technology</i> , 2021, 8, 179-198.	2.7	43
42	Investigation of Shale Permeability Evolution considering Bivalued Effective Stress Coefficients for CO ₂ Injection. <i>Geofluids</i> , 2021, 2021, 1-11.	0.3	0
43	Organic Geochemical and Petrographic Characteristics of the Coal Measure Source Rocks of Pinghu Formation in the Xihu Sag of the East China Sea Shelf Basin: Implications for Coal Measure Gas Potential. <i>Acta Geologica Sinica</i> , 2020, 94, 364-375.	0.8	17
44	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.	1.2	15
45	Transition metal ion doping perovskite nanocrystals for high luminescence quantum yield. <i>Chemical Engineering Journal</i> , 2020, 382, 122868.	6.6	43
46	Evaluation of gas contents for a multi-seam deep coalbed methane reservoir and their geological controls: In situ direct method versus indirect method. <i>Fuel</i> , 2020, 265, 116917.	3.4	40
47	SANS coupled with fluid invasion approaches for characterization of overall nanopore structure and mesopore connectivity of organic-rich marine shales in China. <i>International Journal of Coal Geology</i> , 2020, 217, 103343.	1.9	20
48	Quantification of pore modification in coals due to pulverization using synchrotron small angle X-ray scattering. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103669.	2.1	16
49	Evaluation and modeling of water vapor sorption and transport in nanoporous shale. <i>International Journal of Coal Geology</i> , 2020, 228, 103553.	1.9	32
50	Gas diffusion coefficient estimation of coal: A dimensionless numerical method and its experimental validation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 162, 120336.	2.5	47
51	Review of Shale Gas Sorption and Its Models. <i>Energy & Fuels</i> , 2020, 34, 15502-15524.	2.5	37
52	The impacts of coal dust on miners' health: A review. <i>Environmental Research</i> , 2020, 190, 109849.	3.7	114
53	Fracture permeability damage and recovery behaviors with fracturing fluid treatment of coal: An experimental study. <i>Fuel</i> , 2020, 282, 118809.	3.4	71
54	Evolution of Aromatic Clusters in Vitrinite-Rich Coal during Thermal Maturation by Using High-Resolution Transmission Electron Microscopy and Fourier Transform Infrared Measurements. <i>Energy & Fuels</i> , 2020, 34, 10781-10792.	2.5	15

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55	Continuous Compaction and Permeability Evolution in Longwall Gob Materials. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 5489-5510.	2.6	16
56	Characterization of Ultramicropores and Analysis of Their Evolution in Tectonically Deformed Coals by Low-Pressure CO ₂ Adsorption, XRD, and HRTEM Techniques. <i>Energy & Fuels</i> , 2020, 34, 9436-9449.	2.5	12
57	Asynchronous difference in dynamic characteristics of adsorption swelling and mechanical compression of coal: Modeling and experiments. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 135, 104498.	2.6	43
58	Carbonate Caprock-Brine-CO ₂ Interaction: Alteration of Hydromechanical Properties. , 2020, , .		0
59	Characterizing Gas-Water Transport Behavior in Tight Shale and its Application on the Well Productivity. , 2020, , .		1
60	Pore-Scale Water Vapor Condensation Behaviors in Shales: An Experimental Study. <i>Transport in Porous Media</i> , 2020, 135, 713-734.	1.2	15
61	Modeling of Coal Matrix Apparent Strains for Sorbing Gases Using a Transversely Isotropic Approach. <i>Rock Mechanics and Rock Engineering</i> , 2020, 53, 4163-4181.	2.6	22
62	A Novel Approach of Bulk Strength Enhancement through Microbially-Mediated Carbonate Cementation for Mylonitic Coal. <i>Geomicrobiology Journal</i> , 2020, 37, 726-737.	1.0	8
63	A new approach modeling permeability of mining-disturbed coal based on a conceptual model of equivalent fractured coal. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 79, 103366.	2.1	33
64	Laboratory study of cryogenic treatment induced pore-scale structural alterations of Illinois coal and their implications on gas sorption and diffusion behaviors. <i>Journal of Petroleum Science and Engineering</i> , 2020, 194, 107507.	2.1	29
65	Coalbed methane reservoir fracture evaluation through the novel passive microseismic survey and its implications on permeable and gas production. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103181.	2.1	21
66	Upconversion logic gates based on dual-wavelength excitation. <i>Journal Physics D: Applied Physics</i> , 2020, 53, 285103.	1.3	8
67	Reach and geometry of dynamic gas-driven fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 129, 104287.	2.6	14
68	Quantifying fatigue-damage and failure-precursors using ultrasonic coda wave interferometry. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 131, 104366.	2.6	19
69	Transient gas diffusivity evaluation and modeling for methane and helium in coal. <i>International Journal of Heat and Mass Transfer</i> , 2020, 159, 120091.	2.5	30
70	Experimental evidence of gas densification and enhanced storage in nanoporous shales. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103120.	2.1	10
71	Gas transport through coal particles: Matrix-flux controlled or fracture-flux controlled?. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103216.	2.1	27
72	Characterizing Anisotropic Pore Structure and Its Impact on Gas Storage and Transport in Coalbed Methane and Shale Gas Reservoirs. <i>Energy & Fuels</i> , 2020, 34, 3161-3172.	2.5	24

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73	Excitation-power responsive upconversion logic operations based on the multiphoton process of a praseodymium ion. <i>Journal of Materials Chemistry C</i> , 2020, 8, 2970-2974.	2.7	12
74	Experimental and theoretical investigation on sorption kinetics and hysteresis of nitrogen, methane, and carbon dioxide in coals. <i>Fuel</i> , 2020, 268, 117349.	3.4	39
75	Stress response during in-situ gas depletion and its impact on permeability and stability of CBM reservoir. <i>Fuel</i> , 2020, 266, 117083.	3.4	47
76	Anisotropic pore structure of shale and gas injection-induced nanopore alteration: A small-angle neutron scattering study. <i>International Journal of Coal Geology</i> , 2020, 219, 103384.	1.9	25
77	Evolution of gas transport pattern with the variation of coal particle size: Kinetic model and experiments. <i>Powder Technology</i> , 2020, 367, 336-346.	2.1	18
78	Predicting fugitive gas emissions from gob-to-face in longwall coal mines: Coupled analytical and numerical modeling. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119392.	2.5	28
79	Water Vapor Sorption Properties of Illinois Shales Under Dynamic Water Vapor Conditions: Experimentation and Modeling. <i>Water Resources Research</i> , 2019, 55, 7212-7228.	1.7	71
80	Fluid-dependent shear slip behaviors of coal fractures and their implications on fracture frictional strength reduction and permeability evolutions. <i>International Journal of Coal Geology</i> , 2019, 212, 103235.	1.9	23
81	Supercritical-CO ₂ Adsorption Quantification and Modeling for a Deep Coalbed Methane Reservoir in the Southern Qinshui Basin, China. <i>ACS Omega</i> , 2019, 4, 11685-11700.	1.6	10
82	Evaluation of permeability damage for stressed coal with cyclic loading: An experimental study. <i>International Journal of Coal Geology</i> , 2019, 216, 103338.	1.9	40
83	Three-dimensional modeling and analysis of macro-pore structure of coal using combined X-ray CT imaging and fractal theory. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 123, 104082.	2.6	148
84	Discovering Inherent Characteristics of Polyethylenimine-Functionalized Porous Materials for CO ₂ Capture. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36515-36524.	4.0	31
85	Estimation and modeling of pressure-dependent gas diffusion coefficient for coal: A fractal theory-based approach. <i>Fuel</i> , 2019, 253, 588-606.	3.4	103
86	Gas sorption and diffusion damages by guar-based fracturing fluid for CBM reservoirs. <i>Fuel</i> , 2019, 251, 30-44.	3.4	51
87	Gas diffusion in coal particles: A review of mathematical models and their applications. <i>Fuel</i> , 2019, 252, 77-100.	3.4	214
88	Effects of Pore Structure on Stress-Dependent Fluid Flow in Synthetic Porous Rocks Using Microfocus X-ray Computed Tomography. <i>Transport in Porous Media</i> , 2019, 128, 653-675.	1.2	7
89	Mechanical anisotropy of coal with considerations of realistic microstructures and external loading directions. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 116, 111-121.	2.6	47
90	Coalbed methane reservoir stimulation using guar-based fracturing fluid: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 66, 107-125.	2.1	71

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91	Advances in Modelling of Heat and Mass Transfer in Porous Materials. <i>Advances in Materials Science and Engineering</i> , 2019, 2019, 1-2.	1.0	3
92	Characterizations of pore, mineral and petrographic properties of marine shale using multiple techniques and their implications on gas storage capability for Sichuan Longmaxi gas shale field in China. <i>Fuel</i> , 2019, 241, 360-371.	3.4	83
93	Pore structure characterization of shales using synchrotron SAXS and NMR cryoporometry. <i>Marine and Petroleum Geology</i> , 2019, 102, 116-125.	1.5	53
94	Evolution of the pore structure in coal subjected to freeze-thaw using liquid nitrogen to enhance coalbed methane extraction. <i>Journal of Petroleum Science and Engineering</i> , 2019, 175, 129-139.	2.1	92
95	Intrinsic relationship between Langmuir sorption volume and pressure for coal: Experimental and thermodynamic modeling study. <i>Fuel</i> , 2019, 241, 105-117.	3.4	67
96	Investigation of Accessible Pore Structure Evolution under Pressurization and Adsorption for Coal and Shale Using Small-Angle Neutron Scattering. <i>Energy & Fuels</i> , 2019, 33, 837-847.	2.5	37
97	A new approach to model shale gas production behavior by considering coupled multiple flow mechanisms for multiple fractured horizontal well. <i>Fuel</i> , 2019, 237, 283-297.	3.4	36
98	Pore-Scale Reconstruction and Simulation of Non-Darcy Flow in Synthetic Porous Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 2770-2786.	1.4	35
99	A novel strategy for preparing layered double hydroxide/exfoliated carbon nanostructures composites as superior electrochemical catalysts with respect to oxygen evolution and methanol oxidation. <i>Journal of Alloys and Compounds</i> , 2018, 744, 347-356.	2.8	13
100	Experimental study on sorption induced strain and permeability evolutions and their implications in the anthracite coalbed methane production. <i>Journal of Petroleum Science and Engineering</i> , 2018, 164, 515-522.	2.1	27
101	Fracturing mechanism of coal-like rock specimens under the effect of non-explosive expansion. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 103, 145-154.	2.6	59
102	Comparative study of nanoscale pore structure of Lower Paleozoic marine shales in the Middle-Upper Yangtze area, China: Implications for gas production potential. <i>Geological Journal</i> , 2018, 53, 2413-2426.	0.6	9
103	Temperature effect on gas adsorption capacity in different sized pores of coal: Experiment and numerical modeling. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 821-830.	2.1	54
104	Numerical prediction of in situ horizontal stress evolution in coalbed methane reservoirs by considering both poroelastic and sorption induced strain effects. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2018, 104, 156-164.	2.6	50
105	MORPHOLOGY AND FRACTAL CHARACTERIZATION OF MULTISCALE PORE STRUCTURES FOR ORGANIC-RICH LACUSTRINE SHALE RESERVOIRS. <i>Fractals</i> , 2018, 26, 1840013.	1.8	13
106	Non-linear gas desorption and transport behavior in coal matrix: Experiments and numerical modeling. <i>Fuel</i> , 2018, 214, 1-13.	3.4	75
107	The temperature effect on the methane and CO ₂ adsorption capacities of Illinois coal. <i>Fuel</i> , 2018, 211, 241-250.	3.4	128
108	Infrared thermal image and heat transfer characteristics of coal injected with liquid nitrogen under triaxial loading for coalbed methane recovery. <i>International Journal of Heat and Mass Transfer</i> , 2018, 118, 1231-1242.	2.5	30

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109	Investigation of the discharge law for drill cuttings used for coal outburst prediction based on different borehole diameters under various side stresses. <i>Powder Technology</i> , 2018, 325, 396-404.	2.1	39
110	Mechanical behavior and fracture spatial propagation of coal injected with liquid nitrogen under triaxial stress applied for coalbed methane recovery. <i>Engineering Geology</i> , 2018, 233, 1-10.	2.9	93
111	Pore structure characterization of coal by synchrotron radiation nano-CT. <i>Fuel</i> , 2018, 215, 102-110.	3.4	124
112	Fractal dimensions of low rank coal subjected to liquid nitrogen freeze-thaw based on nuclear magnetic resonance applied for coalbed methane recovery. <i>Powder Technology</i> , 2018, 325, 11-20.	2.1	101
113	Nanopore characterization of mine roof shales by SANS, nitrogen adsorption, and mercury intrusion: Impact on water adsorption/retention behavior. <i>International Journal of Coal Geology</i> , 2018, 200, 173-185.	1.9	75
114	Evaluation of Nanoscale Accessible Pore Structures for Improved Prediction of Gas Production Potential in Chinese Marine Shales. <i>Energy & Fuels</i> , 2018, 32, 12447-12461.	2.5	24
115	Molecular structure controls on micropore evolution in coal vitrinite during coalification. <i>International Journal of Coal Geology</i> , 2018, 199, 19-30.	1.9	79
116	Hydraulic fracturing for improved nutrient delivery in microbially-enhanced coalbed-methane (MECBM) production. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 60, 294-311.	2.1	25
117	Pulse hydraulic fracturing technology and its application in coalbed methane extraction. <i>International Journal of Oil, Gas and Coal Technology</i> , 2018, 19, 115.	0.1	18
118	Modeling of permeability for ultra-tight coal and shale matrix: A multi-mechanistic flow approach. <i>Fuel</i> , 2018, 232, 60-70.	3.4	49
119	A hierarchical methane adsorption characterization through a multiscale approach by considering the macromolecular structure and pore size distribution. <i>Marine and Petroleum Geology</i> , 2018, 96, 304-314.	1.5	22
120	Preparation of ternary phase Li ₄ Ti ₅ O ₁₂ /anatase/rutile nanocomposites with defects and their enhanced capability for lithium ion storage. <i>Journal of Alloys and Compounds</i> , 2018, 769, 463-470.	2.8	8
121	Numerical Modeling of Gas Flow in Coal Using a Modified Dual-Porosity Model: A Multi-Mechanistic Approach and Finite Difference Method. <i>Rock Mechanics and Rock Engineering</i> , 2018, 51, 2863-2880.	2.6	29
122	N, P-codoped Mesoporous Carbon Supported PtCox Nanoparticles and Their Superior Electrochemical toward Methanol Oxidation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 128, 012164.	0.2	1
123	Pulse hydraulic fracturing technology and its application in coalbed methane extraction. <i>International Journal of Oil, Gas and Coal Technology</i> , 2018, 19, 115.	0.1	2
124	Experimental and theoretical characterization of methane and CO ₂ sorption hysteresis in coals based on Langmuir desorption. <i>International Journal of Coal Geology</i> , 2017, 171, 49-60.	1.9	83
125	A conceptual model to characterize and model compaction behavior and permeability evolution of broken rock mass in coal mine gobs. <i>International Journal of Coal Geology</i> , 2017, 172, 60-70.	1.9	59
126	Changes in the petrophysical properties of coal subjected to liquid nitrogen freeze-thaw – A nuclear magnetic resonance investigation. <i>Fuel</i> , 2017, 194, 102-114.	3.4	171

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127	The effects of magma intrusion on localized stress distribution and its implications for coal mine outburst hazards. <i>Engineering Geology</i> , 2017, 218, 12-21.	2.9	33
128	Reservoir reconstruction technologies for coalbed methane recovery in deep and multiple seams. <i>International Journal of Mining Science and Technology</i> , 2017, 27, 277-284.	4.6	67
129	Exfoliated MoS ₂ nanosheets promoted PtCu/graphene nanocomposites with superior electrocatalytic activity toward methanol oxidation. <i>Materials Letters</i> , 2017, 198, 148-151.	1.3	3
130	CO ₂ gas fracturing: A novel reservoir stimulation technology in low permeability gassy coal seams. <i>Fuel</i> , 2017, 203, 197-207.	3.4	95
131	Experimental study on the effect of inherent moisture on hard coal adsorption-desorption characteristics. <i>Adsorption</i> , 2017, 23, 723-742.	1.4	31
132	Changes in pore structure of coal caused by coal-to-gas bioconversion. <i>Scientific Reports</i> , 2017, 7, 3840.	1.6	23
133	Factors controlling the mechanical properties degradation and permeability of coal subjected to liquid nitrogen freeze-thaw. <i>Scientific Reports</i> , 2017, 7, 3675.	1.6	50
134	Feasibility investigation of cryogenic effect from liquid carbon dioxide multi cycle fracturing technology in coalbed methane recovery. <i>Fuel</i> , 2017, 206, 371-380.	3.4	55
135	Constructing a novel strategy for carbon-doped TiO ₂ multiple-phase nanocomposites toward superior electrochemical performance for lithium ion batteries and the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7055-7063.	5.2	54
136	Characterization of Swelling Modulus and Effective Stress Coefficient Accommodating Sorption-Induced Swelling in Coal. <i>Energy & Fuels</i> , 2017, 31, 8843-8851.	2.5	25
137	Experimental study on coal pore structure deterioration under freeze-thaw cycles. <i>Environmental Earth Sciences</i> , 2017, 76, 1.	1.3	46
138	Pore variation of three different metamorphic coals by multiple freezing-thawing cycles of liquid CO ₂ injection for coalbed methane recovery. <i>Fuel</i> , 2017, 208, 41-51.	3.4	70
139	Quantitative Analysis of Nanopore Structural Characteristics of Lower Paleozoic Shale, Chongqing (Southwestern China): Combining FIB-SEM and NMR Cryoporometry. <i>Energy & Fuels</i> , 2017, 31, 13317-13328.	2.5	33
140	Effects of microstructure on water imbibition in sandstones using X-ray computed tomography and neutron radiography. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4963-4981.	1.4	39
141	Shale Pore Characterization Using NMR Cryoporometry with Octamethylcyclotetrasiloxane as the Probe Liquid. <i>Energy & Fuels</i> , 2017, 31, 6951-6959.	2.5	27
142	Pore structure characterization of coal by NMR cryoporometry. <i>Fuel</i> , 2017, 190, 359-369.	3.4	187
143	Recovery of Low Permeability Reservoirs Considering Well Shut-Ins and Surfactant Additives. <i>Energies</i> , 2017, 10, 1279.	1.6	18
144	Fractal evolution under in situ pressure and sorption conditions for coal and shale. <i>Scientific Reports</i> , 2017, 7, 8971.	1.6	40

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145	Simulation of the effect of spout lip installation location on molten glass evolution in the tin bath entry end. <i>Glass Technology: European Journal of Glass Science and Technology Part A</i> , 2017, 58, 137-144.	0.2	0
146	Shock and Vibration Induced by Mining Extraction 2016. <i>Shock and Vibration</i> , 2016, 2016, 1-1.	0.3	0
147	N-doped TiO ₂ Nanotubes as an Effective Additive to Improve the Catalytic Capability of Methanol Oxidation for Pt/Graphene Nanocomposites. <i>Nanomaterials</i> , 2016, 6, 40.	1.9	17
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