List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Hardness of Covalent Crystals. Physical Review Letters, 2003, 91, 015502.	2.9	835
2	Gas diffusion behavior of coal and its impact on production from coalbed methane reservoirs. International Journal of Coal Geology, 2011, 86, 342-348.	1.9	392
3	Pore characterization and its impact on methane adsorption capacity for organic-rich marine shales. Fuel, 2016, 181, 227-237.	3.4	219
4	Gas diffusion in coal particles: A review of mathematical models and their applications. Fuel, 2019, 252, 77-100.	3.4	214
5	Pore structure characterization of coal by NMR cryoporometry. Fuel, 2017, 190, 359-369.	3.4	187
6	Laboratory measurement and modeling of coal permeability with continued methane production: Part 1 – Laboratory results. Fuel, 2012, 94, 110-116.	3.4	186
7	Pore Structure in Coal: Pore Evolution after Cryogenic Freezing with Cyclic Liquid Nitrogen Injection and Its Implication on Coalbed Methane Extraction. Energy & Fuels, 2016, 30, 6009-6020.	2.5	173
8	Changes in the petrophysical properties of coal subjected to liquid nitrogen freeze-thaw – A nuclear magnetic resonance investigation. Fuel, 2017, 194, 102-114.	3.4	171
9	Pore Structure Characterization of Coal by Synchrotron Small-Angle X-ray Scattering and Transmission Electron Microscopy. Energy & Fuels, 2014, 28, 3704-3711.	2.5	160
10	Three-dimensional modeling and analysis of macro-pore structure of coal using combined X-ray CT imaging and fractal theory. International Journal of Rock Mechanics and Minings Sciences, 2019, 123, 104082.	2.6	148
11	Permeability prediction of coalbed methane reservoirs during primary depletion. International Journal of Coal Geology, 2013, 113, 1-10.	1.9	139
12	The temperature effect on the methane and CO2 adsorption capacities of Illinois coal. Fuel, 2018, 211, 241-250.	3.4	128
13	Laboratory measurement and modeling of coal permeability with continued methane production: Part 2 – Modeling results. Fuel, 2012, 94, 117-124.	3.4	125
14	Pore structure characterization of coal by synchrotron radiation nano-CT. Fuel, 2018, 215, 102-110.	3.4	124
15	A simplified permeability model for coalbed methane reservoirs based on matchstick strain and constant volume theory. International Journal of Coal Geology, 2011, 85, 43-48.	1.9	121
16	The impacts of coal dust on miners' health: A review. Environmental Research, 2020, 190, 109849.	3.7	114
17	Methane adsorption measurements and modeling for organic-rich marine shale samples. Fuel, 2016, 172, 301-309.	3.4	113
18	Estimation and modeling of pressure-dependent gas diffusion coefficient for coal: A fractal theory-based approach. Fuel, 2019, 253, 588-606.	3.4	103

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19	Fractal dimensions of low rank coal subjected to liquid nitrogen freeze-thaw based on nuclear magnetic resonance applied for coalbed methane recovery. Powder Technology, 2018, 325, 11-20.	2.1	101
20	Eu/Dy ions co-doped white light luminescence zinc–aluminoborosilicate glasses for white LED. Optical Materials, 2008, 31, 47-50.	1.7	100
21	Estimation of Pressure-Dependent Diffusive Permeability of Coal Using Methane Diffusion Coefficient: Laboratory Measurements and Modeling. Energy & Fuels, 2016, 30, 8968-8976.	2.5	100
22	A new theoretical approach to model sorption-induced coal shrinkage or swelling. AAPG Bulletin, 2013, 97, 1033-1049.	0.7	98
23	CO2 gas fracturing: A novel reservoir stimulation technology in low permeability gassy coal seams. Fuel, 2017, 203, 197-207.	3.4	95
24	Mechanical behavior and fracture spatial propagation of coal injected with liquid nitrogen under triaxial stress applied for coalbed methane recovery. Engineering Geology, 2018, 233, 1-10.	2.9	93
25	Evolution of the pore structure in coal subjected to freezeâ^'thaw using liquid nitrogen to enhance coalbed methane extraction. Journal of Petroleum Science and Engineering, 2019, 175, 129-139.	2.1	92
26	Experimental and theoretical characterization of methane and CO2 sorption hysteresis in coals based on Langmuir desorption. International Journal of Coal Geology, 2017, 171, 49-60.	1.9	83
27	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. Fuel, 2019, 241, 360-371.	3.4	83
28	Molecular structure controls on micropore evolution in coal vitrinite during coalification. International Journal of Coal Geology, 2018, 199, 19-30.	1.9	79
29	White luminescence of Tm–Dy ions co-doped aluminoborosilicate glasses under UV light excitation. Journal of Solid State Chemistry, 2008, 181, 2725-2730.	1.4	78
30	Non-linear gas desorption and transport behavior in coal matrix: Experiments and numerical modeling. Fuel, 2018, 214, 1-13.	3.4	75
31	Nanopore characterization of mine roof shales by SANS, nitrogen adsorption, and mercury intrusion: Impact on water adsorption/retention behavior. International Journal of Coal Geology, 2018, 200, 173-185.	1.9	75
32	Dynamic Tensile Strength of Coal under Dry and Saturated Conditions. Rock Mechanics and Rock Engineering, 2016, 49, 1709-1720.	2.6	74
33	Failure Mechanism of Coal after Cryogenic Freezing with Cyclic Liquid Nitrogen and Its Influences on Coalbed Methane Exploitation. Energy & Fuels, 2016, 30, 8567-8578.	2.5	73
34	Evaluation of in situ stress changes with gas depletion of coalbed methane reservoirs. Journal of Geophysical Research: Solid Earth, 2014, 119, 6263-6276.	1.4	71
35	Water Vapor Sorption Properties of Illinois Shales Under Dynamic Water Vapor Conditions: Experimentation and Modeling. Water Resources Research, 2019, 55, 7212-7228.	1.7	71
36	Coalbed methane reservoir stimulation using guar-based fracturing fluid: A review. Journal of Natural Gas Science and Engineering, 2019, 66, 107-125.	2.1	71

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37	Fracture permeability damage and recovery behaviors with fracturing fluid treatment of coal: An experimental study. Fuel, 2020, 282, 118809.	3.4	71
38	Pore variation of three different metamorphic coals by multiple freezing-thawing cycles of liquid CO2 injection for coalbed methane recovery. Fuel, 2017, 208, 41-51.	3.4	70
39	Estimation and modeling of coal pore accessibility using small angle neutron scattering. Fuel, 2015, 161, 323-332.	3.4	67
40	Reservoir reconstruction technologies for coalbed methane recovery in deep and multiple seams. International Journal of Mining Science and Technology, 2017, 27, 277-284.	4.6	67
41	Intrinsic relationship between Langmuir sorption volume and pressure for coal: Experimental and thermodynamic modeling study. Fuel, 2019, 241, 105-117.	3.4	67
42	Anisotropy characteristics of coal shrinkage/swelling and its impact on coal permeability evolution with CO <sub>2</sub> injection. , 2016, 6, 615-632.		64
43	Laboratory investigations of gas flow behaviors in tight anthracite and evaluation of different pulse-decay methods on permeability estimation. International Journal of Coal Geology, 2015, 149, 118-128.	1.9	61
44	A conceptual model to characterize and model compaction behavior and permeability evolution of broken rock mass in coal mine gobs. International Journal of Coal Geology, 2017, 172, 60-70.	1.9	59
45	Fracturing mechanism of coal-like rock specimens under the effect of non-explosive expansion. International Journal of Rock Mechanics and Minings Sciences, 2018, 103, 145-154.	2.6	59
46	Reduction of Eu <sup>3+</sup> to Eu <sup>2+</sup> in Aluminoborosilicate Glasses Prepared in Air. Journal of the American Ceramic Society, 2008, 91, 2740-2742.	1.9	58
47	A new method for accurate and rapid measurement of underground coal seam gas content. Journal of Natural Gas Science and Engineering, 2015, 26, 1388-1398.	2.1	58
48	Determination of the Effective Stress Law for Deformation in Coalbed Methane Reservoirs. Rock Mechanics and Rock Engineering, 2014, 47, 1809-1820.	2.6	57
49	Failure mechanisms in coal: Dependence on strain rate and microstructure. Journal of Geophysical Research: Solid Earth, 2014, 119, 6924-6935.	1.4	56
50	Water sorption on coal: effects of oxygen-containing function groups and pore structure. International Journal of Coal Science and Technology, 2021, 8, 983-1002.	2.7	56
51	Feasibility investigation of cryogenic effect from liquid carbon dioxide multi cycle fracturing technology in coalbed methane recovery. Fuel, 2017, 206, 371-380.	3.4	55
52	Constructing a novel strategy for carbon-doped TiO <sub>2</sub> multiple-phase nanocomposites toward superior electrochemical performance for lithium ion batteries and the hydrogen evolution reaction. Journal of Materials Chemistry A, 2017, 5, 7055-7063.	5.2	54
53	Temperature effect on gas adsorption capacity in different sized pores of coal: Experiment and numerical modeling. Journal of Petroleum Science and Engineering, 2018, 165, 821-830.	2.1	54
54	Evaluating the changes of sorption and diffusion behaviors of Illinois coal with various water-based fracturing fluid treatments. Fuel, 2021, 283, 118884.	3.4	54

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55	Pore structure characterization of shales using synchrotron SAXS and NMR cryoporometry. Marine and Petroleum Geology, 2019, 102, 116-125.	1.5	53
56	Characterization of nano-to-micron sized respirable coal dust: Particle surface alteration and the health impact. Journal of Hazardous Materials, 2021, 413, 125447.	6.5	52
57	Gas sorption and diffusion damages by guar-based fracturing fluid for CBM reservoirs. Fuel, 2019, 251, 30-44.	3.4	51
58	Factors controlling the mechanical properties degradation and permeability of coal subjected to liquid nitrogen freeze-thaw. Scientific Reports, 2017, 7, 3675.	1.6	50
59	Numerical prediction of in situ horizontal stress evolution in coalbed methane reservoirs by considering both poroelastic and sorption induced strain effects. International Journal of Rock Mechanics and Minings Sciences, 2018, 104, 156-164.	2.6	50
60	Modeling of permeability for ultra-tight coal and shale matrix: A multi-mechanistic flow approach. Fuel, 2018, 232, 60-70.	3.4	49
61	Mechanical anisotropy of coal with considerations of realistic microstructures and external loading directions. International Journal of Rock Mechanics and Minings Sciences, 2019, 116, 111-121.	2.6	47
62	Gas diffusion coefficient estimation of coal: A dimensionless numerical method and its experimental validation. International Journal of Heat and Mass Transfer, 2020, 162, 120336.	2.5	47
63	Stress response during in-situ gas depletion and its impact on permeability and stability of CBM reservoir. Fuel, 2020, 266, 117083.	3.4	47
64	Experimental study on coal pore structure deterioration under freeze–thaw cycles. Environmental Earth Sciences, 2017, 76, 1.	1.3	46
65	Transition metal ion doping perovskite nanocrystals for high luminescence quantum yield. Chemical Engineering Journal, 2020, 382, 122868.	6.6	43
66	Asynchronous difference in dynamic characteristics of adsorption swelling and mechanical compression of coal: Modeling and experiments. International Journal of Rock Mechanics and Minings Sciences, 2020, 135, 104498.	2.6	43
67	Respirable nano-particulate generations and their pathogenesis in mining workplaces: a review. International Journal of Coal Science and Technology, 2021, 8, 179-198.	2.7	43
68	Coal wettability in coalbed methane production: A critical review. Fuel, 2021, 303, 121277.	3.4	42
69	Evaluation of pore properties in coal through compressibility correction based on mercury intrusion porosimetry: A practical approach. Fuel, 2021, 291, 120130.	3.4	41
70	Fractal evolution under in situ pressure and sorption conditions for coal and shale. Scientific Reports, 2017, 7, 8971.	1.6	40
71	Evaluation of permeability damage for stressed coal with cyclic loading: An experimental study. International Journal of Coal Geology, 2019, 216, 103338.	1.9	40
72	Evaluation of gas contents for a multi-seam deep coalbed methane reservoir and their geological controls: In situ direct method versus indirect method. Fuel, 2020, 265, 116917.	3.4	40

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73	Effects of microstructure on water imbibition in sandstones using Xâ€ray computed tomography and neutron radiography. Journal of Geophysical Research: Solid Earth, 2017, 122, 4963-4981.	1.4	39
74	Investigation of the discharge law for drill cuttings used for coal outburst prediction based on different borehole diameters under various side stresses. Powder Technology, 2018, 325, 396-404.	2.1	39
75	Experimental and theoretical investigation on sorption kinetics and hysteresis of nitrogen, methane, and carbon dioxide in coals. Fuel, 2020, 268, 117349.	3.4	39
76	First principles study on the properties of p-type conducting In:SnO2. Thin Solid Films, 2009, 517, 3345-3349.	0.8	38
77	Investigation of Accessible Pore Structure Evolution under Pressurization and Adsorption for Coal and Shale Using Small-Angle Neutron Scattering. Energy & Fuels, 2019, 33, 837-847.	2.5	37
78	Review of Shale Gas Sorption and Its Models. Energy & Fuels, 2020, 34, 15502-15524.	2.5	37
79	A new approach to model shale gas production behavior by considering coupled multiple flow mechanisms for multiple fractured horizontal well. Fuel, 2019, 237, 283-297.	3.4	36
80	Poreâ€Scale Reconstruction and Simulation of Nonâ€Darcy Flow in Synthetic Porous Rocks. Journal of Geophysical Research: Solid Earth, 2018, 123, 2770-2786.	1.4	35
81	Experimental evaluation of ultrasound treatment induced pore structure and gas desorption behavior alterations of coal. Fuel, 2022, 307, 121855.	3.4	35
82	Characterization of mineral composition and its influence on microstructure and sorption capacity of coal. Journal of Natural Gas Science and Engineering, 2015, 25, 46-57.	2.1	34
83	The effects of magma intrusion on localized stress distribution and its implications for coal mine outburst hazards. Engineering Geology, 2017, 218, 12-21.	2.9	33
84	Quantitative Analysis of Nanopore Structural Characteristics of Lower Paleozoic Shale, Chongqing (Southwestern China): Combining FIB-SEM and NMR Cryoporometry. Energy & Fuels, 2017, 31, 13317-13328.	2.5	33
85	A new approach modeling permeability of mining-disturbed coal based on a conceptual model of equivalent fractured coal. Journal of Natural Gas Science and Engineering, 2020, 79, 103366.	2.1	33
86	Evaluation and modeling of water vapor sorption and transport in nanoporous shale. International Journal of Coal Geology, 2020, 228, 103553.	1.9	32
87	Experimental study on the effect of inherent moisture on hard coal adsorption–desorption characteristics. Adsorption, 2017, 23, 723-742.	1.4	31
88	Discovering Inherent Characteristics of Polyethylenimine-Functionalized Porous Materials for CO <sub>2</sub> Capture. ACS Applied Materials & Interfaces, 2019, 11, 36515-36524.	4.0	31
89	Compressibility of sorptive porous media: Part 1. Background and theory. AAPG Bulletin, 2014, 98, 1761-1772.	0.7	30
90	Compressibility of sorptive porous media: Part 2. Experimental study on coal. AAPG Bulletin, 2014, 98, 1773-1788.	0.7	30

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91	Infrared thermal image and heat transfer characteristics of coal injected with liquid nitrogen under triaxial loading for coalbed methane recovery. International Journal of Heat and Mass Transfer, 2018, 118, 1231-1242.	2.5	30
92	Transient gas diffusivity evaluation and modeling for methane and helium in coal. International Journal of Heat and Mass Transfer, 2020, 159, 120091.	2.5	30
93	Numerical Modeling of Gas Flow in Coal Using a Modified Dual-Porosity Model: A Multi-Mechanistic Approach and Finite Difference Method. Rock Mechanics and Rock Engineering, 2018, 51, 2863-2880.	2.6	29
94	Laboratory study of cryogenic treatment induced pore-scale structural alterations of Illinois coal and their implications on gas sorption and diffusion behaviors. Journal of Petroleum Science and Engineering, 2020, 194, 107507.	2.1	29
95	The molecular model of Marcellus shale kerogen: Experimental characterization and structure reconstruction. International Journal of Coal Geology, 2021, 246, 103833.	1.9	29
96	Predicting fugitive gas emissions from gob-to-face in longwall coal mines: Coupled analytical and numerical modeling. International Journal of Heat and Mass Transfer, 2020, 150, 119392.	2.5	28
97	Effects of mixed alkaline earth oxides additive on crystallization and structural changes in borosilicate glasses. Journal of Non-Crystalline Solids, 2008, 354, 956-961.	1.5	27
98	Shale Pore Characterization Using NMR Cryoporometry with Octamethylcyclotetrasiloxane as the Probe Liquid. Energy & Fuels, 2017, 31, 6951-6959.	2.5	27
99	Experimental study on sorption induced strain and permeability evolutions and their implications in the anthracite coalbed methane production. Journal of Petroleum Science and Engineering, 2018, 164, 515-522.	2.1	27
100	Gas transport through coal particles: Matrix-flux controlled or fracture-flux controlled?. Journal of Natural Gas Science and Engineering, 2020, 76, 103216.	2.1	27
101	The role of sorption-induced coal matrix shrinkage on permeability and stress evolutions under replicated in situ condition for CBM reservoirs. Fuel, 2021, 294, 120530.	3.4	27
102	The characteristics and its implications of hydraulic fracturing in hydrate-bearing clayey silt. Journal of Natural Gas Science and Engineering, 2021, 95, 104189.	2.1	27
103	Integrated modeling of multi-scale transport in coal and its application for coalbed methane recovery. Fuel, 2021, 300, 120971.	3.4	26
104	Characterization of Swelling Modulus and Effective Stress Coefficient Accommodating Sorption-Induced Swelling in Coal. Energy & amp; Fuels, 2017, 31, 8843-8851.	2.5	25
105	Hydraulic fracturing for improved nutrient delivery in microbially-enhanced coalbed-methane (MECBM) production. Journal of Natural Gas Science and Engineering, 2018, 60, 294-311.	2.1	25
106	Anisotropic pore structure of shale and gas injection-induced nanopore alteration: A small-angle neutron scattering study. International Journal of Coal Geology, 2020, 219, 103384.	1.9	25
107	Evaluation of Nanoscale Accessible Pore Structures for Improved Prediction of Gas Production Potential in Chinese Marine Shales. Energy & amp; Fuels, 2018, 32, 12447-12461.	2.5	24
108	Characterizing Anisotropic Pore Structure and Its Impact on Gas Storage and Transport in Coalbed Methane and Shale Gas Reservoirs. Energy & Amp; Fuels, 2020, 34, 3161-3172.	2.5	24

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109	Comparisons of Methane Adsorption/Desorption, Diffusion Behaviors on Intact Coals and Deformed Coals: Based on Experimental Analysis and Isosteric Heat of Adsorption. Energy & Fuels, 2021, 35, 5975-5987.	2.5	24
110	Changes in pore structure of coal caused by coal-to-gas bioconversion. Scientific Reports, 2017, 7, 3840.	1.6	23
111	Fluid-dependent shear slip behaviors of coal fractures and their implications on fracture frictional strength reduction and permeability evolutions. International Journal of Coal Geology, 2019, 212, 103235.	1.9	23
112	Optical absorption and emission properties of Er3+ doped mixed alkali borosilicate glasses. Optical Materials, 2008, 30, 1393-1398.	1.7	22
113	A hierarchical methane adsorption characterization through a multiscale approach by considering the macromolecular structure and pore size distribution. Marine and Petroleum Geology, 2018, 96, 304-314.	1.5	22
114	Modeling of Coal Matrix Apparent Strains for Sorbing Gases Using a Transversely Isotropic Approach. Rock Mechanics and Rock Engineering, 2020, 53, 4163-4181.	2.6	22
115	Coalbed methane reservoir fracture evaluation through the novel passive microseismic survey and its implications on permeable and gas production. Journal of Natural Gas Science and Engineering, 2020, 76, 103181.	2.1	21
116	Dualâ€Wavelength Responsive Broad Range Multicolor Upconversion Luminescence for High apacity Photonic Barcodes. Advanced Optical Materials, 2021, 9, 2100197.	3.6	21
117	Experimental study on the adverse effect of gel fracturing fluid on gas sorption behavior for Illinois coal. International Journal of Coal Science and Technology, 2021, 8, 1250-1261.	2.7	21
118	SANS coupled with fluid invasion approaches for characterization of overall nanopore structure and mesopore connectivity of organic-rich marine shales in China. International Journal of Coal Geology, 2020, 217, 103343.	1.9	20
119	Study of the Float Glass Melting Process: Combining Fluid Dynamics Simulation and Glass Homogeneity Inspection. Journal of the American Ceramic Society, 2008, 91, 3229-3234.	1.9	19
120	Quantifying fatigue-damage and failure-precursors using ultrasonic coda wave interferometry. International Journal of Rock Mechanics and Minings Sciences, 2020, 131, 104366.	2.6	19
121	Recovery of Low Permeability Reservoirs Considering Well Shut-Ins and Surfactant Additivities. Energies, 2017, 10, 1279.	1.6	18
122	Pulse hydraulic fracturing technology and its application in coalbed methane extraction. International Journal of Oil, Gas and Coal Technology, 2018, 19, 115.	0.1	18
123	Evolution of gas transport pattern with the variation of coal particle size: Kinetic model and experiments. Powder Technology, 2020, 367, 336-346.	2.1	18
124	N-doped TiO2 Nanotubes as an Effective Additive to Improve the Catalytic Capability of Methanol Oxidation for Pt/Graphene Nanocomposites. Nanomaterials, 2016, 6, 40.	1.9	17
125	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. Acta Geologica Sinica, 2020, 94, 364-375.	0.8	17
126	Quantification of pore modification in coals due to pulverization using synchrotron small angle X-ray scattering. Journal of Natural Gas Science and Engineering, 2020, 84, 103669.	2.1	16

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127	Continuous Compaction and Permeability Evolution in Longwall Gob Materials. Rock Mechanics and Rock Engineering, 2020, 53, 5489-5510.	2.6	16
128	Cryogenic enabled multicolor upconversion luminescence of KLa(MoO <sub>4</sub> ) <sub>2</sub> :Yb <sup>3+</sup> /Ho <sup>3+</sup> for dual-mode anti-counterfeiting. Dalton Transactions, 2021, 50, 12234-12241.	1.6	16
129	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.	1.2	15
130	Evolution of Aromatic Clusters in Vitrinite-Rich Coal during Thermal Maturation by Using High-Resolution Transmission Electron Microscopy and Fourier Transform Infrared Measurements. Energy & Fuels, 2020, 34, 10781-10792.	2.5	15
131	Pore-Scale Water Vapor Condensation Behaviors in Shales: An Experimental Study. Transport in Porous Media, 2020, 135, 713-734.	1.2	15
132	Role of VES-based fracturing fluid on gas sorption and diffusion of coal: An experimental study of Illinois basin coal. Chemical Engineering Research and Design, 2021, 148, 1243-1253.	2.7	15
133	Reach and geometry of dynamic gas-driven fractures. International Journal of Rock Mechanics and Minings Sciences, 2020, 129, 104287.	2.6	14
134	A novel experimental system for accurate gas sorption and its application to various shale rocks. Chemical Engineering Research and Design, 2021, 165, 180-191.	2.7	14
135	A novel strategy for preparing layered double hydroxide/exfoliated carbon nanostructures composites as superior electrochemical catalysts with respect to oxygen evolution and methanol oxidation. Journal of Alloys and Compounds, 2018, 744, 347-356.	2.8	13
136	MORPHOLOGY AND FRACTAL CHARACTERIZATION OF MULTISCALE PORE STRUCTURES FOR ORGANIC-RICH LACUSTRINE SHALE RESERVOIRS. Fractals, 2018, 26, 1840013.	1.8	13
137	Quantifying and Modeling of In Situ Stress Evolutions of Coal Reservoirs for Helium, Methane, Nitrogen and CO2 Depletions. Rock Mechanics and Rock Engineering, 2021, 54, 3701-3719.	2.6	13
138	Characterization of Ultramicropores and Analysis of Their Evolution in Tectonically Deformed Coals by Low-Pressure CO <sub>2</sub> Adsorption, XRD, and HRTEM Techniques. Energy & Fuels, 2020, 34, 9436-9449.	2.5	12
139	Excitation-power responsive upconversion logic operations based on the multiphoton process of a praseodymium ion. Journal of Materials Chemistry C, 2020, 8, 2970-2974.	2.7	12
140	A fully-coupled water-vapor flow and rock deformation/damage model for shale and coal: Its application for mine stability evaluation. International Journal of Rock Mechanics and Minings Sciences, 2021, 146, 104880.	2.6	12
141	Structural, electronic and optical properties of Sn1â^'xSbxO2. Computational Materials Science, 2009, 46, 418-424.	1.4	11
142	Probing Nanomechanical Properties of a Shale with Nanoindentation: Heterogeneity and the Effect of Water–Shale Interactions. Energy & Fuels, 2021, 35, 11930-11946.	2.5	11
143	3D Simulation of Borosilicate Glass Allâ€Electric Melting Furnaces. Journal of the American Ceramic Society, 2014, 97, 141-149.	1.9	10
144	Supercritical-CO <sub>2</sub> Adsorption Quantification and Modeling for a Deep Coalbed Methane Reservoir in the Southern Qinshui Basin, China. ACS Omega, 2019, 4, 11685-11700.	1.6	10

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145	Experimental evidence of gas densification and enhanced storage in nanoporous shales. Journal of Natural Gas Science and Engineering, 2020, 76, 103120.	2.1	10
146	Permeability Evolution of Fractured Sorptive Geomaterials: A Theoretical Study on Coalbed Methane Reservoir. Rock Mechanics and Rock Engineering, 2021, 54, 3507-3525.	2.6	10
147	Comparative study of nanoscale pore structure of <scp>L</scp> ower <scp>P</scp> alaeozoic marine shales in the <scp>M</scp> iddleâ€ <scp>U</scp> pper <scp>Y</scp> angtze area, China: <scp>I</scp> mplications for gas production potential. Geological Journal, 2018, 53, 2413-2426.	0.6	9
148	Carbonate Caprock–Brine–Carbon Dioxide Interaction: Alteration of Hydromechanical Properties and Implications on Carbon Dioxide Leakage. SPE Journal, 2021, 26, 2780-2792.	1.7	9
149	Mechanical property alterations across coal matrix due to water-CO2 treatments: A micro-to-nano scale experimental study. Energy, 2022, 248, 123575.	4.5	9
150	Preparation of ternary phase Li4Ti5O12/anatase/rutile nanocomposites with defects and their enhanced capability for lithium ion storage. Journal of Alloys and Compounds, 2018, 769, 463-470.	2.8	8
151	A Novel Approach of Bulk Strength Enhancement through Microbially-Mediated Carbonate Cementation for Mylonitic Coal. Geomicrobiology Journal, 2020, 37, 726-737.	1.0	8
152	Upconversion logic gates based on dual-wavelength excitation. Journal Physics D: Applied Physics, 2020, 53, 285103.	1.3	8
153	Multi-Angle Investigation of the Fractal Characteristics of Nanoscale Pores in the Lower Cambrian Niutitang Shale and Their Implications for CH <sub>4</sub> Adsorption. Journal of Nanoscience and Nanotechnology, 2021, 21, 156-167.	0.9	8
154	Laboratory investigation on pore characteristics of coals with consideration of various tectonic deformations. Journal of Natural Gas Science and Engineering, 2021, 91, 103960.	2.1	8
155	Cryogenic Dependent Energy Manipulation in Nonthermally Coupled Levels for Multicolor Upconversion Luminescence. Journal of Physical Chemistry C, 2021, 125, 19040-19047.	1.5	8
156	Oxyfluoride glass-ceramics for upconversion all-optical combinational logic gate operations. Cell Reports Physical Science, 2022, 3, 100871.	2.8	8
157	Effects of Pore Structure on Stress-Dependent Fluid Flow in Synthetic Porous Rocks Using Microfocus X-ray Computed Tomography. Transport in Porous Media, 2019, 128, 653-675.	1.2	7
158	Nanoscale Coal Deformation and Alteration of Porosity and Pore Orientation Under Uniaxial Compression: An In Situ SANS Study. Rock Mechanics and Rock Engineering, 2021, 54, 3593-3608.	2.6	7
159	Effect of the Flow Pattern in a Float Glass Furnace on Glass Quality: Calculations and Experimental Evaluation of Onâ€5ite Samples. Journal of the American Ceramic Society, 2009, 92, 3098-3100.	1.9	6
160	Occurrence of fluids in high dip angled coal measures: Geological and geochemical assessments for southern Junggar Basin, China. Journal of Natural Gas Science and Engineering, 2021, 88, 103827.	2.1	6
161	Unraveling high-pressure gas storage mechanisms in shale nanopores through SANS. Environmental Science: Nano, 2021, 8, 2706-2717.	2.2	5
162	Investigation of Fluid-Injection-Induced Coal Stiffness Alteration using a Single-Core Multistage Triaxial Test. International Journal of Coal Geology, 2021, 237, 103692.	1.9	4

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163	Special Issue on mine dust research: health effects and control technologies. International Journal of Coal Science and Technology, 2021, 8, 177-178.	2.7	4
164	CO <sub>2</sub> Gas Fracturing in High Dip Angled Coal Seams for Improved Gas Drainage Efficiency at Hashatu Coal Mine. Energy & Fuels, 2022, 36, 2763-2774.	2.5	4
165	A New Method to Optimize Furnace Designs Using Daily Flow Rates to Maximize Energy Savings in the Steady Production. Journal of the American Ceramic Society, 2009, 92, 2459-2462.	1.9	3
166	Simulation of Moltenâ€Glass Evolution from Spout Lip to Tin Bath. International Journal of Applied Glass Science, 2016, 7, 492-502.	1.0	3
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