

Qinghe Niu

List of Publications by Year in descending order

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61
papers

2,002
citations

218677

26
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265206

42
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62
all docs

62
docs citations

62
times ranked

964
citing authors

#	ARTICLE	IF	CITATIONS
1	Micrometer-scale fractures in coal related to coal rank based on micro-CT scanning and fractal theory. <i>Fuel</i> , 2018, 212, 162-172.	6.4	140
2	Evaluation of coal structure and permeability with the aid of geophysical logging technology. <i>Fuel</i> , 2009, 88, 2278-2285.	6.4	132
3	The closed pores of tectonically deformed coal studied by small-angle X-ray scattering and liquid nitrogen adsorption. <i>Microporous and Mesoporous Materials</i> , 2016, 224, 245-252.	4.4	120
4	Micro-pores and fractures of coals analysed by field emission scanning electron microscopy and fractal theory. <i>Fuel</i> , 2016, 164, 277-285.	6.4	118
5	Anisotropic characteristics of low-rank coal fractures in the Fukang mining area, China. <i>Fuel</i> , 2018, 211, 182-193.	6.4	110
6	The adsorption-swelling and permeability characteristics of natural and reconstituted anthracite coals. <i>Energy</i> , 2017, 141, 2206-2217.	8.8	78
7	The evolution and formation mechanisms of closed pores in coal. <i>Fuel</i> , 2017, 200, 555-563.	6.4	76
8	Changes in the anisotropic permeability of low-rank coal under varying effective stress in Fukang mining area, China. <i>Fuel</i> , 2018, 234, 1481-1497.	6.4	74
9	Fractal classification and natural classification of coal pore structure based on migration of coal bed methane. <i>Science Bulletin</i> , 2005, 50, 66-71.	1.7	71
10	Quantitative study of the macromolecular structures of tectonically deformed coal using high-resolution transmission electron microscopy. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1852-1862.	4.4	65
11	Anisotropic Adsorption Swelling and Permeability Characteristics with Injecting CO ₂ in Coal. <i>Energy & Fuels</i> , 2018, 32, 1979-1991.	5.1	60
12	Fractal study of adsorption-pores in pulverized coals with various metamorphism degrees using N ₂ adsorption, X-ray scattering and image analysis methods. <i>Journal of Petroleum Science and Engineering</i> , 2019, 176, 584-593.	4.2	59
13	Investigation of coalbed methane potential in low-rank coal reservoirs "Free and soluble gas contents. <i>Fuel</i> , 2013, 112, 14-22.	6.4	58
14	Changes in coal pore structure and permeability during N ₂ injection. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1234-1241.	4.4	56
15	Study on the anisotropic permeability in different rank coals under influences of supercritical CO ₂ adsorption and effective stress and its enlightenment for CO ₂ enhance coalbed methane recovery. <i>Fuel</i> , 2020, 262, 116515.	6.4	51
16	Coal Pores: Methods, Types, and Characteristics. <i>Energy & Fuels</i> , 2021, 35, 7467-7484.	5.1	50
17	Experimental study of permeability changes and its influencing factors with CO ₂ injection in coal. <i>Journal of Natural Gas Science and Engineering</i> , 2019, 61, 215-225.	4.4	45
18	Responses of multi-scale microstructures, physical-mechanical and hydraulic characteristics of roof rocks caused by the supercritical CO ₂ -water-rock reaction. <i>Energy</i> , 2022, 238, 121727.	8.8	42

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19	Experimental study on the softening effect and mechanism of anthracite with CO ₂ injection. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 138, 104614.	5.8	41
20	Pore-fracture alteration of different rank coals: Implications for CO ₂ sequestration in coal. <i>Fuel</i> , 2021, 289, 119801.	6.4	39
21	Experimental insights into the adsorption-desorption of CH ₄ /N ₂ and induced strain for medium-rank coals. <i>Journal of Petroleum Science and Engineering</i> , 2021, 204, 108705.	4.2	37
22	Nitrogen injection to enhance methane and water production: An experimental study using the LF-NMR relaxation method. <i>International Journal of Coal Geology</i> , 2019, 211, 103228.	5.0	34
23	Research on Molecular Structure Characteristics of Vitrinite and Inertinite from Bituminous Coal with FTIR, Micro-Raman, and XRD Spectroscopy. <i>Energy & Fuels</i> , 2021, 35, 1322-1335.	5.1	34
24	CO ₂ adsorption and swelling of coal under constrained conditions and their stage-change relationship. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103205.	4.4	33
25	Numerical description of coalbed methane desorption stages based on isothermal adsorption experiment. <i>Science China Earth Sciences</i> , 2013, 56, 1029-1036.	5.2	30
26	Production profile characteristics of large dip angle coal reservoir and its impact on coalbed methane production: A case study on the Fukang west block, southern Junggar Basin, China. <i>Journal of Petroleum Science and Engineering</i> , 2018, 171, 99-114.	4.2	30
27	Compressibility of Different Pore and Fracture Structures and Its Relationship with Heterogeneity and Minerals in Low-Rank Coal Reservoirs: An Experimental Study Based on Nuclear Magnetic Resonance and Micro-CT. <i>Energy & Fuels</i> , 2020, 34, 10894-10903.	5.1	27
28	Influence of supercritical CO ₂ -H ₂ O-caprock interactions on the sealing capability of deep coal seam caprocks related to CO ₂ geological storage: A case study of the silty mudstone caprock of coal seam no. 3 in the Qinshui Basin, China. <i>International Journal of Greenhouse Gas Control</i> , 2021, 106, 103282.	4.6	25
29	Investigation of the CO ₂ Flooding Behavior and Its Collaborative Controlling Factors. <i>Energy & Fuels</i> , 2020, 34, 11194-11209.	5.1	23
30	Adsorption characteristics of lignite in China. <i>Journal of Earth Science (Wuhan, China)</i> , 2011, 22, 371-376.	3.2	19
31	An experimental study on the effect of nitrogen injection on the deformation of coal during methane desorption. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 83, 103529.	4.4	19
32	Investigation of Adsorption-Desorption, Induced Strains and Permeability Evolution During N ₂ -ECBM Recovery. <i>Natural Resources Research</i> , 2021, 30, 3717-3734.	4.7	16
33	Ground stability evaluation of a coal-mining area: a case study of Yingshouyingzi mining area, China. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 2252-2265.	1.4	14
34	Study of the Characteristics of Marine-Terrigenous Facies Shale from the Permo-Carboniferous System in the Guxian Block, Southwest Qinshui Basin. <i>Energy & Fuels</i> , 2018, 32, 1096-1109.	5.1	13
35	Changes of Multiscale Surface Morphology and Pore Structure of Mudstone Associated with Supercritical CO ₂ -Water Exposure at Different Times. <i>Energy & Fuels</i> , 2021, 35, 4212-4223.	5.1	13
36	Structural characterization of high fidelity for bituminous and semi-anthracite: Insights from spectral analysis and modeling. <i>Fuel</i> , 2022, 315, 123183.	6.4	13

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37	Effects of Methane Saturation and Nitrogen Pressure on N ₂ -Enhanced Coalbed Methane Desorption Strain Characteristics of Medium-Rank Coal. <i>Natural Resources Research</i> , 2021, 30, 1527-1545.	4.7	11
38	Effect of the Coal Molecular Structure on the Micropore Volume and the Coalbed Methane Content. <i>Energy & Fuels</i> , 2021, 35, 19437-19447.	5.1	11
39	Characterization of Coal Structure of High-Thickness Coal Reservoir Using Geophysical Logging: A Case Study in Southern Junggar Basin, Xinjiang, Northwest China. <i>Natural Resources Research</i> , 2022, 31, 929-951.	4.7	11
40	The fracture anisotropic evolution of different ranking coals in Shanxi Province, China. <i>Journal of Petroleum Science and Engineering</i> , 2019, 182, 106281.	4.2	10
41	Relationship of fractures in coal with lithotype and thickness of coal lithotype. <i>Geomechanics and Engineering</i> , 2014, 6, 613-624.	0.9	10
42	CO ₂ Adsorption/Desorption, Induced Deformation Behavior, and Permeability Characteristics of Different Rank Coals: Application for CO ₂ -Enhanced Coalbed Methane Recovery. <i>Energy & Fuels</i> , 2022, 36, 5709-5722.	5.1	9
43	Dynamic Monitoring of Induced Strain during N ₂ -ECBM of Coal with Different Gas Contents. <i>Energy & Fuels</i> , 2021, 35, 3140-3149.	5.1	8
44	A Discrete Fracture Modeling Approach for Analysis of Coalbed Methane and Water Flow in a Fractured Coal Reservoir. <i>Geofluids</i> , 2020, 2020, 1-15.	0.7	7
45	Experimental Study on the Change of the Pore-Fracture Structure in Mining-Disturbed Coal-Series Strata: An Implication for CBM Development in Abandoned Mines. <i>Energy & Fuels</i> , 2021, 35, 1208-1218.	5.1	7
46	Source, Age, and Evolution of Coal Measures Water in Central-South Qinshui Basin, China. <i>Energy & Fuels</i> , 2018, 32, 7358-7373.	5.1	6
47	Impact of Nitrogen Injection on Pore Structure and Adsorption Capacity of High Volatility Bituminous Coal. <i>Energy & Fuels</i> , 2020, 34, 8216-8226.	5.1	6
48	Permeability Loss of Bituminous Coal Induced by Water and Salinity Sensitivities: Implications of Minerals' Occurrence and Pore Structure Complexity. <i>ACS Omega</i> , 2022, 7, 3522-3539.	3.5	6
49	Evolution of Production and Transport Characteristics of Steeply-Dipping Ultra-Thick Coalbed Methane Reservoirs. <i>Energies</i> , 2020, 13, 5081.	3.1	5
50	Relationship between petrographic parameters and physical-mechanical properties of weakly cemented sandstones. <i>Quarterly Journal of Engineering Geology and Hydrogeology</i> , 2021, 54, .	1.4	5
51	DATING METHODS FOR CHRONOLOGICAL STUDY OF YARDANG LANDFORMS:A REVIEW AND PERSPECTIVE IN APPLICATION. <i>Marine Geology & Quaternary Geology</i> , 2013, 33, 201.	0.1	5
52	A field application of methane drainage by surface vertical well fracturing in complicated geologic structure area: a case study. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-18.	2.3	4
53	Evaluation of deep high-rank coal seam gas content and favorable area division based on GIS: A case study of the South Yanchuan block in Ordos Basin. <i>Energy Exploration and Exploitation</i> , 0, , 014459872210812.	2.3	3
54	Influence of Stratigraphic Conditions on the Deformation Characteristics of Oil/Gas Wells Piercing Longwall Pillars and Mining Optimization. <i>Energies</i> , 2017, 10, 775.	3.1	2

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55	Characteristics of the physical parameters and the evolution law of anthracite around the coalification jump: A case of the Jincheng and Guxu mining area, China. <i>Energy Exploration and Exploitation</i> , 2019, 37, 1205-1226.	2.3	2
56	Effect of Fabric Anisotropy on Bifurcation and Shear Band Evolution in Granular Geomaterials. <i>KSCE Journal of Civil Engineering</i> , 2021, 25, 2893-2910.	1.9	2
57	Characterization of Pore Structure and Its Relationship with Methane Adsorption on Medium-High Volatile Bituminous Coal: An Experimental Study Using Nuclear Magnetic Resonance. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 515-528.	0.9	2
58	Experimental simulation on dynamic variation of the permeability of high-rank coal reservoirs. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2017, 22, 726-732.	0.9	2
59	Granule Ripples in the Kumtagh Desert, China: Morphological and Sedimentary Characteristics, and Development Processes. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	2.8	2
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61	Numerical analysis of bifurcation and shear band measurement in geomaterials. <i>European Journal of Environmental and Civil Engineering</i> , 2023, 27, 1580-1595.	2.1	0