

Jienan Pan

List of Publications by Year in descending order

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51
papers

2,394
citations

201674

27
h-index

214800

47
g-index

52
all docs

52
docs citations

52
times ranked

1121
citing authors

#	ARTICLE	IF	CITATIONS
1	Macromolecular and pore structures of Chinese tectonically deformed coal studied by atomic force microscopy. <i>Fuel</i> , 2015, 139, 94-101.	6.4	211
2	Coalbed methane sorption related to coal deformation structures at different temperatures and pressures. <i>Fuel</i> , 2012, 102, 760-765.	6.4	187
3	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
4	The characteristics and origins of cleat in coal from Western North China. <i>International Journal of Coal Geology</i> , 2001, 47, 51-62.	5.0	132
5	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
6	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
7	Anisotropic characteristics of low-rank coal fractures in the Fukang mining area, China. <i>Fuel</i> , 2018, 211, 182-193.	6.4	110
8	Nanoscale Pores in Coal Related to Coal Rank and Deformation Structures. <i>Transport in Porous Media</i> , 2015, 107, 543-554.	2.6	82
9	Coal microcrystalline structural changes related to methane adsorption/desorption. <i>Fuel</i> , 2019, 239, 13-23.	6.4	77
10	The evolution and formation mechanisms of closed pores in coal. <i>Fuel</i> , 2017, 200, 555-563.	6.4	76
11	Effects of Metamorphism and Deformation on the Coal Macromolecular Structure by Laser Raman Spectroscopy. <i>Energy & Fuels</i> , 2017, 31, 1136-1146.	5.1	74
12	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
13	Influences of hydraulic fracturing on microfractures of high-rank coal under different in-situ stress conditions. <i>Fuel</i> , 2021, 287, 119566.	6.4	68
14	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
15	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
16	Pore structure characteristics of coal-bearing organic shale in Yuzhou coalfield, China using low pressure N ₂ adsorption and FESEM methods. <i>Journal of Petroleum Science and Engineering</i> , 2017, 153, 234-243.	4.2	58
17	The role of structure defects in the deformation of anthracite and their influence on the macromolecular structure. <i>Fuel</i> , 2017, 206, 1-9.	6.4	55
18	Relationship between macro-fracture density, P-wave velocity, and permeability of coal. <i>Journal of Applied Geophysics</i> , 2015, 117, 111-117.	2.1	54

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19	Coal Pores: Methods, Types, and Characteristics. <i>Energy & Fuels</i> , 2021, 35, 7467-7484.	5.1	50
20	Characterizing the shape, size, and distribution heterogeneity of pore-fractures in high rank coal based on X-ray CT image analysis and mercury intrusion porosimetry. <i>Fuel</i> , 2020, 282, 118754.	6.4	48
21	The impacts of stress on the chemical structure of coals: a mini-review based on the recent development of mechanochemistry. <i>Science Bulletin</i> , 2017, 62, 965-970.	9.0	47
22	Potential impact of CO ₂ injection into coal matrix in molecular terms. <i>Chemical Engineering Journal</i> , 2020, 401, 126071.	12.7	46
23	Fracture variation in high-rank coal induced by hydraulic fracturing using X-ray computer tomography and digital volume correlation. <i>International Journal of Coal Geology</i> , 2022, 252, 103942.	5.0	38
24	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
25	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
26	Characteristics of multi-scale pore structure of coal and its influence on permeability. <i>Natural Gas Industry B</i> , 2019, 6, 357-365.	3.4	31
27	3D microfracture network and seepage characteristics of low-volatility bituminous coal based on nano-CT. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 83, 103556.	4.4	31
28	Organic-rich siliceous rocks in the upper Permian Dalong Formation (NW middle Yangtze): Provenance, paleoclimate and paleoenvironment. <i>Marine and Petroleum Geology</i> , 2021, 123, 104728.	3.3	30
29	Comparison of coalbed gas generation between Huaibei-Huainan coalfields and Qinshui coal basin based on the tectono-thermal modeling. <i>Science China Earth Sciences</i> , 2011, 54, 1069-1077.	5.2	28
30	Heterogeneity of pore structure of late Paleozoic transitional facies coal-bearing shale in the Southern North China and its main controlling factors. <i>Marine and Petroleum Geology</i> , 2020, 122, 104710.	3.3	23
31	Deformation Mechanisms and Macromolecular Structure Response of Anthracite under Different Stress. <i>Energy & Fuels</i> , 0, , .	5.1	19
32	Stress degradation mechanism of coal macromolecular structure: Insights from molecular dynamics simulation and quantum chemistry calculations. <i>Fuel</i> , 2021, 303, 121258.	6.4	18
33	Micro-nano-scale pore stimulation of coalbed methane reservoirs caused by hydraulic fracturing experiments. <i>Journal of Petroleum Science and Engineering</i> , 2022, 214, 110512.	4.2	18
34	Macromolecular structural response of Wender coal under tensile stress via molecular dynamics. <i>Fuel</i> , 2020, 265, 116938.	6.4	16
35	Organic matter provenance and accumulation of transitional facies coal and mudstone in Yangquan, China: Insights from petrology and geochemistry. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 94, 104076.	4.4	15
36	Examination of the formation phases of coalbed methane reservoirs in the Lu'an mining area (China) based on a fluid inclusion analysis and Ro method. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 73-82.	4.4	13

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37	Influence of In Situ Stress on Well Test Permeability and Hydraulic Fracturing of the Fanzhuang Block, Qinshui Basin. <i>Energy & Fuels</i> , 2021, 35, 2121-2133.	5.1	13
38	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.	5.1	12
39	Numerical Simulation of Matrix Swelling and Its Effects on Fracture Structure and Permeability for a High-Rank Coal Based on X-ray Micro-CT Image Processing Techniques. <i>Energy & Fuels</i> , 2020, 34, 10801-10809.	5.1	11
40	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
41	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
42	Using Raman spectroscopy to evaluate coal maturity: The problem. <i>Fuel</i> , 2022, 312, 122811.	6.4	9
43	The Super-Micropores in Macromolecular Structure of Tectonically Deformed Coal Using High-Resolution Transmission Electron Microscopy. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6982-6990.	0.9	8
44	Macromolecular Structure Changes of Tectonically Deformed Coal: Evidence from Coal Pyrolysis, ¹³ C NMR, and XRD Experiments. <i>Energy & Fuels</i> , 2021, 35, 8711-8722.	5.1	5
45	Similar Material Proportioning and Preparation of Ductile Surrounding Rocks for Simulating In Situ Coalbed methane Production from Tectonically Deformed Coals. <i>Rock Mechanics and Rock Engineering</i> , 2022, 55, 5377-5392.	5.4	4
46	Network fracturing technology of hydraulic fracturing in coalbed methane reservoir based on induced stress. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	3
47	Simulation of Gas Production Mechanisms in Shear Deformation of Medium-Rank Coal. <i>ACS Omega</i> , 2022, 7, 342-350.	3.5	3
48	Characteristics of Coal Porosity Changes before and after Triaxial Compression Shear Deformation under Different Confining Pressures. <i>ACS Omega</i> , 2022, 7, 16728-16739.	3.5	3
49	Characterization of coal-based humic acids in relation to their preparation methods. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020, , 1-11.	2.3	2
50	The impact of tectonic stress chemistry on mineralization processes: A review. <i>Solid Earth Sciences</i> , 2022, 7, 151-166.	1.7	2
51	Effect of Temperature and Pressure on Nanoscale Pores in Closed Coal. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 567-577.	0.9	0