

Yan-Ming Zhu

List of Publications by Year in descending order

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70
papers

2,514
citations

257450

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206112

48
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70
all docs

70
docs citations

70
times ranked

1631
citing authors

#	ARTICLE	IF	CITATIONS
1	Shale gas reservoir characterisation: A typical case in the southern Sichuan Basin of China. <i>Energy</i> , 2011, 36, 6609-6616.	8.8	366
2	Characteristics of the Nanoscale Pore Structure in Northwestern Hunan Shale Gas Reservoirs Using Field Emission Scanning Electron Microscopy, High-Pressure Mercury Intrusion, and Gas Adsorption. <i>Energy & Fuels</i> , 2014, 28, 945-955.	5.1	238
3	Pore characterization and its impact on methane adsorption capacity for organic-rich marine shales. <i>Fuel</i> , 2016, 181, 227-237.	6.4	219
4	Micro and nano-size pores of clay minerals in shale reservoirs: Implication for the accumulation of shale gas. <i>Sedimentary Geology</i> , 2016, 342, 180-190.	2.1	125
5	Methane adsorption measurements and modeling for organic-rich marine shale samples. <i>Fuel</i> , 2016, 172, 301-309.	6.4	113
6	Structural Characteristics of Coal Vitrinite during Pyrolysis. <i>Energy & Fuels</i> , 2014, 28, 3645-3654.	5.1	106
7	Molecular simulation of methane adsorption in shale based on grand canonical Monte Carlo method and pore size distribution. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 30, 119-126.	4.4	86
8	Molecular structure controls on micropore evolution in coal vitrinite during coalification. <i>International Journal of Coal Geology</i> , 2018, 199, 19-30.	5.0	79
9	Ultra micropores in macromolecular structure of subbituminous coal vitrinite. <i>Fuel</i> , 2017, 210, 298-306.	6.4	67
10	Characterization of coalification jumps during high rank coal chemical structure evolution. <i>Fuel</i> , 2016, 185, 298-304.	6.4	60
11	Research on the structural characteristics of vitrinite in different coal ranks. <i>Fuel</i> , 2013, 107, 647-652.	6.4	59
12	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.	4.2	54
13	Effects of chemical composition, disorder degree and crystallite structure of coal macromolecule on nanopores (0.4–150 nm) in different rank naturally-matured coals. <i>Fuel</i> , 2019, 242, 553-561.	6.4	51
14	Supercritical Methane Adsorption on Shale over Wide Pressure and Temperature Ranges: Implications for Gas-in-Place Estimation. <i>Energy & Fuels</i> , 2020, 34, 3121-3134.	5.1	49
15	Shale gas enrichment pattern and exploration significance of Well WuXi-2 in northeast Chongqing, NE Sichuan Basin. <i>Petroleum Exploration and Development</i> , 2016, 43, 386-394.	7.0	48
16	Multi-proxy analysis of organic matter accumulation in the Upper Ordovician–Lower Silurian black shale on the Upper Yangtze Platform, south China. <i>Marine and Petroleum Geology</i> , 2019, 103, 473-484.	3.3	43
17	Experimental study on response characteristics of micro–macroscopic performance of red sandstone after high-temperature treatment. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 136, 1935-1945.	3.6	40
18	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.	6.4	40

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19	Experimental and theoretical investigation on sorption kinetics and hysteresis of nitrogen, methane, and carbon dioxide in coals. <i>Fuel</i> , 2020, 268, 117349.	6.4	39
20	Investigation on pore structure and multifractal of tight sandstone reservoirs in coal bearing strata using LF-NMR measurements. <i>Journal of Petroleum Science and Engineering</i> , 2020, 187, 106757.	4.2	37
21	Experimental study of the interplay between pore system and permeability using pore compressibility for high rank coal reservoirs. <i>Fuel</i> , 2019, 254, 115712.	6.4	35
22	Evaluation of Spatial Alignment of Kerogen in Shale Using High-Resolution Transmission Electron Microscopy, Raman Spectroscopy, and Fourier Transform Infrared. <i>Energy & Fuels</i> , 2018, 32, 10616-10627.	5.1	29
23	Molecular model and ReaxFF molecular dynamics simulation of coal vitrinite pyrolysis. <i>Journal of Molecular Modeling</i> , 2015, 21, 188.	1.8	27
24	Supercritical Methane Adsorption on Overmature Shale: Effect of Pore Structure and Fractal Characteristics. <i>Energy & Fuels</i> , 2019, 33, 8323-8337.	5.1	25
25	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.	5.1	24
26	Comparison of pore characteristics in the coal and shale reservoirs of Taiyuan Formation, Qinshui Basin, China. <i>International Journal of Coal Science and Technology</i> , 2016, 3, 330-338.	6.0	22
27	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.	3.3	22
28	Factors controlling organic-matter accumulation in the Upper Ordovician-Lower Silurian organic-rich shale on the northeast margin of the Upper Yangtze platform: Evidence from petrographic and geochemical proxies. <i>Marine and Petroleum Geology</i> , 2020, 121, 104597.	3.3	22
29	Molecular Structure of Kerogen in the Longmaxi Shale: Insights from Solid State NMR, FTIR, XRD and HRTEM. <i>Acta Geologica Sinica</i> , 2019, 93, 1015-1024.	1.4	21
30	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.	5.0	20
31	Experimental investigation of the stress-dependent permeability in the Longmaxi Formation shale. <i>Journal of Petroleum Science and Engineering</i> , 2019, 175, 932-947.	4.2	19
32	Hydrocarbon Generation Evolution of Permian-Carboniferous Rocks of the Bohai Bay Basin in China. <i>Acta Geologica Sinica</i> , 2010, 84, 370-381.	1.4	17
33	Pore Structure Heterogeneity of the Xiamaling Formation Shale Gas Reservoir in the Yanshan Area of China: Evaluation of Geological Controlling Factors. <i>Acta Geologica Sinica</i> , 2019, 93, 588-603.	1.4	17
34	Structure and partial ordering of terrestrial kerogen: Insight from high-resolution transmission electron microscopy. <i>Fuel</i> , 2020, 281, 118759.	6.4	17
35	The Chemical and Alignment Structural Properties of Coal: Insights from Raman, Solid-State ¹³ C NMR, XRD, and HRTEM Techniques. <i>ACS Omega</i> , 2021, 6, 11266-11279.	3.5	17
36	Gas flow mechanisms under the effects of pore structures and permeability characteristics in source rocks of coal measures in Qinshui Basin, China. <i>Energy Exploration and Exploitation</i> , 2017, 35, 338-355.	2.3	16

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37	Characterization of methane adsorption on shale of a complex tectonic area in Northeast Guizhou, China: Experimental results and geological significance. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 84, 103676.	4.4	15
38	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.	5.1	15
39	Relationship between Tectonism and Composition and Pore Characteristics of Shale Reservoirs. <i>Geofluids</i> , 2020, 2020, 1-14.	0.7	15
40	Study of a Vitrinite Macromolecular Structure Evolution Control Mechanism of the Energy Barrier in Hydrocarbon Generation. <i>Energy & Fuels</i> , 2014, 28, 500-509.	5.1	14
41	Fractal Characteristics of Micro- and Mesopores in the Longmaxi Shale. <i>Energies</i> , 2020, 13, 1349.	3.1	14
42	MORPHOLOGY AND FRACTAL CHARACTERIZATION OF MULTISCALE PORE STRUCTURES FOR ORGANIC-RICH LACUSTRINE SHALE RESERVOIRS. <i>Fractals</i> , 2018, 26, 1840013.	3.7	13
43	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.	5.4	13
44	Coupled accumulation characteristics of Carboniferous-Permian coal measure gases in the Northern Ordos Basin, China. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1.	1.3	11
45	Structural deformation and its pore-fracture system response of the Wufeng-Longmaxi shale in the Northeast Chongqing area, using FE-SEM, gas adsorption, and SAXS. <i>Journal of Petroleum Science and Engineering</i> , 2022, 209, 109877.	4.2	10
46	Comparative study of nanoscale pore structure of Lower Palaeozoic marine shales in the Middle-Upper Yangtze area, China: Implications for gas production potential. <i>Geological Journal</i> , 2018, 53, 2413-2426.	1.3	9
47	Investigation of Shale Nano-Pore Characteristics by Scanning Electron Microscope and Low-Pressure Nitrogen Adsorption. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 6252-6261.	0.9	8
48	Geological models and controlling factors of gas content in marine terrigenous shale in the Southern Qinshui Basin, China. <i>Energy Exploration and Exploitation</i> , 2019, 37, 375-393.	2.3	8
49	Hydrocarbon Generation and Chemical Structure Evolution from Confined Pyrolysis of Bituminous Coal. <i>ACS Omega</i> , 2020, 5, 19682-19694.	3.5	8
50	Nanostructure Effect on Methane Adsorption Capacity of Shale with Type III Kerogen. <i>Energies</i> , 2020, 13, 1690.	3.1	8
51	Molecular Structure Evaluation and Image-Guided Atomistic Representation of Marine Kerogen from Longmaxi Shale. <i>Energy & Fuels</i> , 2021, 35, 7981-7992.	5.1	8
52	Early Palaeozoic carbonate reservoirs from the Yingshan Formation of Well block ZG-43 in Tazhong Low Rise, Central Uplift, Tarim Basin, NW China: geological features and controlling factors. <i>Geological Journal</i> , 2014, 49, 256-270.	1.3	7
53	Effects of Rapid Igneous Intrusion Heating on the Geochemistry, Petrography, and Microcrystalline Structure of Coals from Huainan, China. <i>ACS Omega</i> , 2022, 7, 15439-15450.	3.5	7
54	Structure and Fractal Characteristics of Nano-Micro Pores in Organic-Rich Qiongzhusi Formation Shales in Eastern Yunnan Province. <i>Journal of Nanoscience and Nanotechnology</i> , 2017, 17, 5996-6013.	0.9	6

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55	Evaluation of hydrocarbons generated from the Permo-Carboniferous source rocks in Huanghua Depression of the Bohai Bay Basin, China. <i>Energy Exploration and Exploitation</i> , 2018, 36, 1229-1244.	2.3	6
56	A Fully Coupled Model for the Simulation of Gas Flow in Multiscale Shale Reservoirs Combining Multiple Effects. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1063.	2.5	6
57	FRactal Characteristics of Nanoscale Pores in Shale and Its Implications on Methane Adsorption Capacity. <i>Fractals</i> , 2019, 27, 1940014.	3.7	6
58	Chemical Structure Transformations in Kerogen from Longmaxi Shales in Response to Tectonic Stress as Investigated by HRTEM, FTIR, and ¹³ C NMR. <i>Energy & Fuels</i> , 2021, 35, 19496-19506.	5.1	5
59	Hydrocarbon generation evaluation of Permo-Carboniferous source rocks in Qinggu-2 well in Dongpu depression, China. <i>Journal of Earth Science (Wuhan, China)</i> , 2010, 21, 94-103.	3.2	4
60	Characteristics and differential accumulation of oil/gas in Lower Paleozoic marine carbonate on northern slope of Tazhong Low Rise, Tarim Basin, NW China: a case study of Lower Ordovician Yingshan Formation. <i>Arabian Journal of Geosciences</i> , 2014, 7, 4487-4498.	1.3	4
61	The Genetic Mechanism and Evolution Process of Overpressure in the Upper Ordovician–Lower Silurian Black Shale Formation in the Southern Sichuan Basin. <i>Minerals (Basel, Switzerland)</i> , 2020, 10, 238.	2.0	4
62	Learning-based line impedance estimation for partially observable distribution systems. <i>International Journal of Electrical Power and Energy Systems</i> , 2022, 137, 107803.	5.5	4
63	The effects of igneous intrusions on coal-bed macerals, maturity, and adsorption. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2017, 39, 58-66.	2.3	3
64	Characteristics and Controlling Factors of Nanopores of the Niutitang Formation Shale from Jiumen Outcrop, Guizhou Province. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 284-295.	0.9	3
65	Analysis of Developmental Characteristics and Dominant Factors of Pore-Fracture Systems in Lower Cambrian Marine Shale Reservoirs: A Case Study of the Niutitang Formation, Fenggang Block, Southern China. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 57-71.	0.9	3
66	The Early Silurian Sedimentary Environment of Middle-Upper Yangtze: Lithological and Palaeontological Evidence and Impact on Shale Gas Reservoir. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 494.	2.0	2
67	Pore structure complexity and its significance to the petrophysical properties of coal measure gas reservoirs in Qinshui Basin, China. <i>Frontiers of Earth Science</i> , 2021, 15, 860-875.	2.1	2
68	Study on the Shale Gas Reservoir-Forming Characteristics of the Taiyuan Formation in the Eastern Qinshui Basin, China. <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 72-84.	0.9	2
69	Hybrid clustering-based bad data detection of PMU measurements. <i>Energy Conversion and Economics</i> , 2021, 2, 235-247.	3.2	2
70	Evolution of hydrocarbon generation of Jurassic source rock of the Lenke-1 well in Lenghu tectonic belt of Qaidam basin, China. <i>Mining Science and Technology</i> , 2009, 19, 235-240.	0.3	0