Shangwen Zhou

List of Publications by Year
in descending order

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40 papers	1,303 citations	516710 16 h-index	361022 35 g-index
42 all docs	42 docs citations	42 times ranked	899 citing authors

#	Article	IF	Citations
1	Experimental study of supercritical methane adsorption in Longmaxi shale: Insights into the density of adsorbed methane. Fuel, 2018, 211, 140-148.	6.4	185
2	2D and 3D nanopore characterization of gas shale in Longmaxi formation based on FIB-SEM. Marine and Petroleum Geology, 2016, 73, 174-180.	3.3	179
3	Shale gas transport model in 3D fractal porous media with variable pore sizes. Marine and Petroleum Geology, 2018, 98, 437-447.	3.3	122
4	A simple permeability model for shale gas and key insights on relative importance of various transport mechanisms. Fuel, 2019, 252, 210-219.	6.4	89
5	High-pressure methane adsorption behavior on deep shales: Experiments and modeling. Physics of Fluids, 2021, 33, .	4.0	80
6	Experimental study and isotherm models of water vapor adsorption in shale rocks. Journal of Natural Gas Science and Engineering, 2018, 52, 484-491.	4.4	65
7	Investigation of methane adsorption mechanism on Longmaxi shale by combining the micropore filling and monolayer coverage theories. Advances in Geo-Energy Research, 2018, 2, 269-281.	6.0	62
8	A modified BET equation to investigate supercritical methane adsorption mechanisms in shale. Marine and Petroleum Geology, 2019, 105, 284-292.	3.3	55
9	Gas transport behaviors in shale nanopores based on multiple mechanisms and macroscale modeling. International Journal of Heat and Mass Transfer, 2018, 125, 845-857.	4.8	48
10	Effects of hydration on the microstructure and physical properties of shale. Petroleum Exploration and Development, 2018, 45, 1146-1153.	7.0	39
11	Insights into NMR response characteristics of shales and its application in shale gas reservoir evaluation. Journal of Natural Gas Science and Engineering, 2020, 84, 103674.	4.4	37
12	Sedimentology and geochemistry of Carboniferous-Permian marine-continental transitional shales in the eastern Ordos Basin, North China. Palaeogeography, Palaeoclimatology, Palaeoecology, 2021, 571, 110389.	2.3	36
13	Characterization of the reservoir in Lower Silurian and Lower Cambrian shale of south Sichuan Basin, China. Journal of Natural Gas Science and Engineering, 2016, 29, 150-159.	4.4	27
14	Experimental and Fractal Characterization of the Microstructure of Shales from Sichuan Basin, China. Energy & Fuels, 2021, 35, 3899-3914.	5.1	25
15	Geochemical anomalies in the Lower Silurian shale gas from the Sichuan Basin, China: Insights from a Rayleigh-type fractionation model. Organic Geochemistry, 2020, 142, 103981.	1.8	22
16	Study on mechanical characteristics and damage mechanism of the Longmaxi Formation shale in southern Sichuan Basin, China. Energy Exploration and Exploitation, 2020, 38, 454-472.	2.3	21
17	Investigation of the isosteric heat of adsorption for supercritical methane on shale under high pressure. Adsorption Science and Technology, 2019, 37, 590-606.	3.2	17
18	Controlling Factor Analysis of Microstructural Property and Storage Capacity of Deep Longmaxi Formation Shale in Sichuan Basin. Energy & Fuels, 2021, 35, 20092-20102.	5.1	17

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19	Impacts of gas properties and transport mechanisms on the permeability of shale at pore and core scale. Energy, 2022, 244, 122707.	8.8	17
20	Analysis method of pulse decay tests for dual-porosity cores. Journal of Natural Gas Science and Engineering, 2018, 59, 274-286.	4.4	16
21	Lower threshold of pore-throat diameter for the shale gas reservoir: Experimental and molecular simulation study. Journal of Petroleum Science and Engineering, 2019, 173, 1037-1046.	4.2	14
22	Energy Calculation and Simulation of Methane Adsorbed by Coal with Different Metamorphic Grades. ACS Omega, 2020, 5, 14976-14989.	3.5	14
23	Comprehensive characterization and evaluation of deep shales from Wufeng-Longmaxi Formation by LF-NMR technology. Unconventional Resources, 2022, 2, 1-11.	4.1	14
24	A comparative study of the nanopore structure characteristics of coals and Longmaxi shales in China. Energy Science and Engineering, 2019, 7, 2768-2781.	4.0	12
25	Pore Characteristics and Methane Adsorption Capacity of Different Lithofacies of the Wufeng Formationâ€“Longmaxi Formation Shales, Southern Sichuan Basin. Energy & Fuels, 2020, 34, 8046-8062.	5.1	12
26	Optimization of key parameters for porosity measurement of shale gas reservoirs. Natural Gas Industry B, 2021, 8, 455-463.	3.4	11
27	Adsorption characteristics and controlling factors of marine deep shale gas in southern Sichuan Basin, China. Journal of Natural Gas Geoscience, 2022, 7, 61-72.	1.2	9
28	Shale favorable area optimization in coal-bearing series: A case study from the Shanxi Formation in Northern Ordos Basin, China. Energy Exploration and Exploitation, 2018, 36, 1295-1309.	2.3	8
29	Graptoliteâ€Derived Organic Matter and Pore Characteristics in the Wufengâ€Longmaxi Black Shale of the Sichuan Basin and its Periphery. Acta Geologica Sinica, 2019, 93, 982-995.	1.4	7
30	Reservoir heterogeneity of the Longmaxi Formation and its significance for shale gas enrichment. Energy Science and Engineering, 2020, 8, 4229-4249.	4.0	7
31	Pore Systems of the Different Lithofacies of the Longmaxi Formation at Depths Exceeding 3500 m in the Zigong Area, Sichuan Basin. Energy & Fuels, 2020, 34, 5733-5752.	5.1	7
32	FRACTAL MODELS FOR GASâ€“WATER TRANSPORT IN SHALE POROUS MEDIA CONSIDERING WETTING CHARACTERISTICS. Fractals, 2020, 28, 2050138.	3.7	5
33	Clarifying the Effect of Clay Minerals on Methane Adsorption Capacity of Marine Shales in Sichuan Basin, China. Energies, 2021, 14, 6836.	3.1	5
34	Paleoenvironment and Organic Matter Accumulation Mechanism of Marineâ€“Continental Transitional Shales: Outcrop Characterizations of the Carboniferousâ€“Permian Strata, Ordos Basin, North China. Energies, 2021, 14, 7445.	3.1	5
35	High-Pressure Methane Adsorption in Shale. , 2019, , 247-258.		3
36	Evaluation of the Accumulation Conditions and Favorable Areas of Shale Gas in the Upper Palaeozoic Marine-Continental Transitional Facies in the Daning-Jixian Area, Ordos Basin. Geofluids, 2022, 2022, 1-16.	0.7	3

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37	A Comparative Study of the Micropore Structure between the Transitional and Marine Shales in China. Geofluids, 2021, 2021, 1-14.	0.7	2
38	Pore Structures of the Lower Permian Taiyuan Shale and Limestone in the Ordos Basin and the Significance to Unconventional Natural Gas Generation and Storage. Geofluids, 2022, 2022, 1-16.	0.7	2
39	Apparent Diffusion Coefficient of Gas in Shale Reservoirs and Insights into Its Diffusion Behavior: A Modeling and Experimental Study. Energy & Fuels, 2021, 35, 13065-13076.	5.1	1
40	A new fractal apparent permeability model for liquid flow in tortuous nanopores from lattice Boltzmann simulations to theoretical model. Fractals, 0, , .	3.7	0