

# Xiangjun Liu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2697764/publications.pdf>

Version: 2024-02-01

61  
papers

1,541  
citations

471509

17  
h-index

302126

39  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1230  
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of pore structure and fractal characteristics of organic-rich Yanchang formation shale in central China by nitrogen adsorption/desorption analysis. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 62-72.	4.4	308
2	Adsorption of methane in organic-rich shale nanopores: An experimental and molecular simulation study. <i>Fuel</i> , 2017, 200, 299-315.	6.4	182
3	Experimental study on the pore structure characteristics of the Upper Ordovician Wufeng Formation shale in the southwest portion of the Sichuan Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 22, 530-539.	4.4	122
4	Experimental study on crack propagation in shale formations considering hydration and wettability. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 23, 492-499.	4.4	99
5	Experimental study on the wettability and adsorption characteristics of Longmaxi Formation shale in the Sichuan Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 1107-1118.	4.4	76
6	An investigation of the fractal characteristics of the Upper Ordovician Wufeng Formation shale using nitrogen adsorption analysis. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 402-409.	4.4	68
7	Molecular simulation of methane adsorption in slit-like quartz pores. <i>RSC Advances</i> , 2016, 6, 110808-110819.	3.6	67
8	Wellbore stability analysis for horizontal wells in shale formations. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 1-8.	4.4	52
9	Methane Adsorption on Carbon Models of the Organic Matter of Organic-Rich Shales. <i>Energy &amp; Fuels</i> , 2017, 31, 1489-1501.	5.1	50
10	Synthesis and evaluation of novel water-soluble copolymers based on acrylamide and modular $\beta$ -cyclodextrin. <i>Carbohydrate Polymers</i> , 2013, 96, 47-56.	10.2	49
11	Adsorption Behavior of Methane on Kaolinite. <i>Industrial &amp; Engineering Chemistry Research</i> , 2017, 56, 6229-6238.	3.7	44
12	Experimental study on hydration damage mechanism of shale from the Longmaxi Formation in southern Sichuan Basin, China. <i>Petroleum</i> , 2016, 2, 54-60.	2.8	40
13	Mineralogical, microstructural and physiochemical characteristics of organic-rich shales in the Sichuan Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 26, 1200-1212.	4.4	38
14	An investigation into the thermodynamic characteristics of methane adsorption on different clay minerals. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 33, 1046-1055.	4.4	35
15	Experimental study on the damage of organic-rich shale during water-shale interaction. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 74, 103103.	4.4	32
16	Synthesis and clay stabilization of a water-soluble copolymer based on acrylamide, modular $\beta$ -cyclodextrin, and AMPS. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3398-3404.	2.6	30
17	Microscopic Mechanism of Clay Minerals on Reservoir Damage during Steam Injection in Unconsolidated Sandstone. <i>Energy &amp; Fuels</i> , 2018, 32, 4671-4681.	5.1	18
18	Investigation of the factors influencing methane adsorption on illite. <i>Energy Science and Engineering</i> , 2019, 7, 3317-3331.	4.0	18

#	ARTICLE	IF	CITATIONS
19	Study of a Polyamine Inhibitor Used for Shale Water-Based Drilling Fluid. ACS Omega, 2021, 6, 15448-15459.	3.5	18
20	An Investigation of Fractal Characteristics of Marine Shales in the Southern China from Nitrogen Adsorption Data. Journal of Chemistry, 2015, 2015, 1-12.	1.9	17
21	Investigation of Influence Factors of the Fracture Toughness of Shale: A Case Study of the Longmaxi Formation Shale in Sichuan Basin, China. Geotechnical and Geological Engineering, 2019, 37, 2927-2934.	1.7	16
22	Investigation of coal and rock geo-mechanical properties evaluation based on the fracture complexity and wave velocity. Journal of Natural Gas Science and Engineering, 2020, 75, 103133.	4.4	14
23	Application of adsorption potential theory to methane adsorption on organic-rich shales at above critical temperature. Environmental Earth Sciences, 2018, 77, 1.	2.7	11
24	Modular <sup>2</sup> -cyclodextrin and polyoxyethylene ether modified water-soluble polyacrylamide for shale hydration inhibition. Polymers for Advanced Technologies, 2016, 27, 213-220.	3.2	10
25	Hydration index and hydrated constitutive model of clay shale using acoustic frequency spectrum. Energy Science and Engineering, 2019, 7, 1748-1766.	4.0	9
26	Experimental on the pore structure characteristics of Longmaxi Formation shale in southern Sichuan Basin, China. Petroleum, 2021, 7, 135-141.	2.8	9
27	Evaluation and mechanical influence of clay shale hydration using acoustic time-frequency domain characteristics. Journal of Geophysics and Engineering, 2019, 16, 493-508.	1.4	8
28	Investigation on the Influence of Water-Shale Interaction on Stress Sensitivity of Organic-Rich Shale. Geofluids, 2019, 2019, 1-13.	0.7	8
29	Experimental study on the physical and chemical properties of the deep hard brittle shale. Perspectives in Science, 2016, 7, 166-170.	0.6	7
30	Analysis of influencing factors of wellbore stability in shale formations. Arabian Journal of Geosciences, 2018, 11, 1.	1.3	7
31	Novel Analytical Model of Shale Spontaneous Imbibition Considering the Hydration Effect. Energy & Fuels, 2021, 35, 18518-18532.	5.1	7
32	The anisotropic mechanical characteristics of layered rocks under numerical simulation. Journal of Petroleum Exploration and Production, 2022, 12, 51-62.	2.4	7
33	Insights into the pore structure characteristics of the Lower Silurian Longmaxi Formation shale in the Jiaoshiba area, Southern Sichuan Basin, China. Journal of Petroleum Exploration and Production, 2022, 12, 2857-2868.	2.4	7
34	Uncertainty analysis of hydraulic fracture height containment in a layered formation. Environmental Earth Sciences, 2018, 77, 1.	2.7	6
35	A novel analytical model of initial fracture pressure for horizontal staged fracturing in fractured reservoir. Energy Science and Engineering, 2019, 7, 3297-3316.	4.0	6
36	Molecular Dynamics Simulation and Experimental Studies of the Wettability Behaviors of Shales. Energy & Fuels, 2022, 36, 3526-3538.	5.1	6

#	ARTICLE	IF	CITATIONS
37	Research on fabric characteristics and borehole instability mechanisms of fractured igneous rocks. <i>Petroleum Science</i> , 2013, 10, 212-218.	4.9	5
38	The Similar Structure Method for Solving the Model of Fractal Dual-Porosity Reservoir. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-9.	1.1	5
39	Effect of calcium carbonate whisker content on the morphology, crystallization, and mechanical properties of poly( <i>para</i> -dioxanone)/Calcium carbonate whisker composites. <i>Polymer Composites</i> , 2016, 37, 3442-3448.	4.6	4
40	The Analytical Model for Horizontal Wellbore Stability in Anisotropic Shale Reservoir. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 5109-5126.	1.7	4
41	Effect of high temperature on the physical properties and pore structure characteristics of organic-rich shale. <i>Arabian Journal of Geosciences</i> , 2022, 15, 1.	1.3	4
42	Pore-Structural Characteristics of Tight Fractured-Vuggy Carbonates and Its Effects on the P- and S-Wave Velocity: A Micro-CT Study on Full-Diameter Cores. <i>Energies</i> , 2020, 13, 6148.	3.1	3
43	Elastic parameter inversion of Longmaxi Formation shale based on the least squares method. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1.	1.3	3
44	Slip behaviours and evaluation of interpretative model of oil/water two-phase flow in a large-diameter pipe. <i>Journal of Petroleum Science and Engineering</i> , 2020, 186, 106707.	4.2	2
45	The Investigation on Initiation and Propagation of Hydraulic Fractures in Shale Reservoir. <i>Geofluids</i> , 2021, 2021, 1-19.	0.7	2
46	Testing of drilling mud filter cake for low permeability micro-fracture plugging performance in shale rocks. <i>Journal of Petroleum Exploration and Production</i> , 2022, 12, 3289-3302.	2.4	2
47	Effects of Different Penetration Patterns on a Fault during Underground Fluid Injection. <i>Geofluids</i> , 2019, 2019, 1-15.	0.7	1
48	Uncertainty Analysis of Factors Influencing Stimulated Fracture Volume in Layered Formation. <i>Energies</i> , 2019, 12, 4444.	3.1	1
49	The Influence of Bedding Planes and Permeability Coefficient on Fracture Propagation of Horizontal Wells in Stratification Shale Reservoirs. <i>Geofluids</i> , 2020, 2020, 1-19.	0.7	1
50	The influence of confining pressure on the cementation index m and the saturation index n of carbonate reservoir. , 2018, , .		1
51	New model to evaluate the Brittleness in shale formation. , 2017, , .		1
52	Intelligent optimization of drill bits by combining multi-source data fusion and deep neural networks. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-19.	2.3	1
53	Experimental investigation of the effect of hydration on mechanical behavior of Longmaxi Formation Shale. , 2016, , .		0
54	Investigation on the adsorbed gas content in clay minerals pore of shales. , 2018, , .		0

#	ARTICLE	IF	CITATIONS
55	Insights into the pore structure and fractal characteristics of Permian Lucaogou Formation shale from the Jimusar sag, Junggar Basin. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	0
56	Modified correction for predicting slip velocity of oil-water two-phase bubble flow in large-diameter pipes. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	0
57	Investigation on the influence of the salinity on the rock-electricity parameters of fracture-cave carbonate. , 2017, , .		0
58	GIS-based spatial visualization of petrophysical parameters. , 2018, , .		0
59	The establishment and application of a novel method of brittleness evaluation. , 2018, , .		0
60	Investigation on the influence factors for the fracturing effect in fractured tight reservoirs using the numerical simulation. Science Progress, 2022, 105, 003685042110703.	1.9	0
61	Investigation on the influence of hydration on the elastic parameters of Longmaxi Formation shale. Arabian Journal of Geosciences, 2021, 14, 1.	1.3	0