

Xiangjun Liu

List of Publications by Year in descending order

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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 | The anisotropic mechanical characteristics of layered rocks under numerical simulation. <i>Journal of Petroleum Exploration and Production</i> , 2022, 12, 51-62. | 2.4 | 7 |
| 2 | Investigation on the influence factors for the fracturing effect in fractured tight reservoirs using the numerical simulation. <i>Science Progress</i> , 2022, 105, 003685042110703. | 1.9 | 0 |
| 3 | Insights into the pore structure characteristics of the Lower Silurian Longmaxi Formation shale in the Jiaoshiba area, Southern Sichuan Basin, China. <i>Journal of Petroleum Exploration and Production</i> , 2022, 12, 2857-2868. | 2.4 | 7 |
| 4 | Molecular Dynamics Simulation and Experimental Studies of the Wettability Behaviors of Shales. <i>Energy & Fuels</i> , 2022, 36, 3526-3538. | 5.1 | 6 |
| 5 | 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 |
| 6 | 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 |
| 7 | Experimental on the pore structure characteristics of Longmaxi Formation shale in southern Sichuan Basin, China. <i>Petroleum</i> , 2021, 7, 135-141. | 2.8 | 9 |
| 8 | 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 |
| 9 | Insights into the pore structure and fractal characteristics of Permian Lucaogou Formation shale from the Jimusar sag, Junggar Basin. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1. | 1.3 | 0 |
| 10 | Study of a Polyamine Inhibitor Used for Shale Water-Based Drilling Fluid. <i>ACS Omega</i> , 2021, 6, 15448-15459. | 3.5 | 18 |
| 11 | Modified correction for predicting slip velocity of oil-water two-phase bubble flow in large-diameter pipes. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1. | 1.3 | 0 |
| 12 | Novel Analytical Model of Shale Spontaneous Imbibition Considering the Hydration Effect. <i>Energy & Fuels</i> , 2021, 35, 18518-18532. | 5.1 | 7 |
| 13 | The Investigation on Initiation and Propagation of Hydraulic Fractures in Shale Reservoir. <i>Geofluids</i> , 2021, 2021, 1-19. | 0.7 | 2 |
| 14 | Investigation on the influence of hydration on the elastic parameters of Longmaxi Formation shale. <i>Arabian Journal of Geosciences</i> , 2021, 14, 1. | 1.3 | 0 |
| 15 | 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 |
| 16 | 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 |
| 17 | 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 |
| 18 | The Analytical Model for Horizontal Wellbore Stability in Anisotropic Shale Reservoir. <i>Geotechnical and Geological Engineering</i> , 2020, 38, 5109-5126. | 1.7 | 4 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | 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 |
| 20 | Investigation of coal and rock geo-mechanical properties evaluation based on the fracture complexity and wave velocity. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 75, 103133. | 4.4 | 14 |
| 21 | Evaluation and mechanical influence of clay shale hydration using acoustic time-frequency domain characteristics. <i>Journal of Geophysics and Engineering</i> , 2019, 16, 493-508. | 1.4 | 8 |
| 22 | Investigation on the Influence of Water-Shale Interaction on Stress Sensitivity of Organic-Rich Shale. <i>Geofluids</i> , 2019, 2019, 1-13. | 0.7 | 8 |
| 23 | Investigation of the factors influencing methane adsorption on illite. <i>Energy Science and Engineering</i> , 2019, 7, 3317-3331. | 4.0 | 18 |
| 24 | Effects of Different Penetration Patterns on a Fault during Underground Fluid Injection. <i>Geofluids</i> , 2019, 2019, 1-15. | 0.7 | 1 |
| 25 | A novel analytical model of initial fracture pressure for horizontal staged fracturing in fractured reservoir. <i>Energy Science and Engineering</i> , 2019, 7, 3297-3316. | 4.0 | 6 |
| 26 | Investigation of Influence Factors of the Fracture Toughness of Shale: A Case Study of the Longmaxi Formation Shale in Sichuan Basin, China. <i>Geotechnical and Geological Engineering</i> , 2019, 37, 2927-2934. | 1.7 | 16 |
| 27 | Hydration index and hydrated constitutive model of clay shale using acoustic frequency spectrum. <i>Energy Science and Engineering</i> , 2019, 7, 1748-1766. | 4.0 | 9 |
| 28 | Uncertainty Analysis of Factors Influencing Stimulated Fracture Volume in Layered Formation. <i>Energies</i> , 2019, 12, 4444. | 3.1 | 1 |
| 29 | Application of adsorption potential theory to methane adsorption on organic-rich shales at above critical temperature. <i>Environmental Earth Sciences</i> , 2018, 77, 1. | 2.7 | 11 |
| 30 | Microscopic Mechanism of Clay Minerals on Reservoir Damage during Steam Injection in Unconsolidated Sandstone. <i>Energy & Fuels</i> , 2018, 32, 4671-4681. | 5.1 | 18 |
| 31 | Investigation on the adsorbed gas content in clay minerals pore of shales. , 2018, , . | | 0 |
| 32 | Uncertainty analysis of hydraulic fracture height containment in a layered formation. <i>Environmental Earth Sciences</i> , 2018, 77, 1. | 2.7 | 6 |
| 33 | Analysis of influencing factors of wellbore stability in shale formations. <i>Arabian Journal of Geosciences</i> , 2018, 11, 1. | 1.3 | 7 |
| 34 | The influence of confining pressure on the cementation index m and the saturation index n of carbonate reservoir. , 2018, , . | | 1 |
| 35 | GIS-based spatial visualization of petrophysical parameters. , 2018, , . | | 0 |
| 36 | The establishment and application of a novel method of brittleness evaluation. , 2018, , . | | 0 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Methane Adsorption on Carbon Models of the Organic Matter of Organic-Rich Shales. Energy & Fuels, 2017, 31, 1489-1501. | 5.1 | 50 |
| 38 | Adsorption Behavior of Methane on Kaolinite. Industrial & Engineering Chemistry Research, 2017, 56, 6229-6238. | 3.7 | 44 |
| 39 | Adsorption of methane in organic-rich shale nanopores: An experimental and molecular simulation study. Fuel, 2017, 200, 299-315. | 6.4 | 182 |
| 40 | New model to evaluate the Brittleness in shale formation. , 2017, , . | | 1 |
| 41 | Investigation on the influence of the salinity on the rock-electricity parameters of fracture-cave carbonate. , 2017, , . | | 0 |
| 42 | Effect of calcium carbonate whisker content on the morphology, crystallization, and mechanical properties of poly(<i>para</i> -dioxanone)/Calcium carbonate whisker composites. Polymer Composites, 2016, 37, 3442-3448. | 4.6 | 4 |
| 43 | Molecular simulation of methane adsorption in slit-like quartz pores. RSC Advances, 2016, 6, 110808-110819. | 3.6 | 67 |
| 44 | Experimental study on the wettability and adsorption characteristics of Longmaxi Formation shale in the Sichuan Basin, China. Journal of Natural Gas Science and Engineering, 2016, 33, 1107-1118. | 4.4 | 76 |
| 45 | An investigation into the thermodynamic characteristics of methane adsorption on different clay minerals. Journal of Natural Gas Science and Engineering, 2016, 33, 1046-1055. | 4.4 | 35 |
| 46 | Experimental investigation of the effect of hydration on mechanical behavior of Longmaxi Formation Shale. , 2016, , . | | 0 |
| 47 | Modular ² -cyclodextrin and polyoxyethylene ether modified water-soluble polyacrylamide for shale hydration inhibition. Polymers for Advanced Technologies, 2016, 27, 213-220. | 3.2 | 10 |
| 48 | Experimental study on hydration damage mechanism of shale from the Longmaxi Formation in southern Sichuan Basin, China. Petroleum, 2016, 2, 54-60. | 2.8 | 40 |
| 49 | Experimental study on the physical and chemical properties of the deep hard brittle shale. Perspectives in Science, 2016, 7, 166-170. | 0.6 | 7 |
| 50 | Wellbore stability analysis for horizontal wells in shale formations. Journal of Natural Gas Science and Engineering, 2016, 31, 1-8. | 4.4 | 52 |
| 51 | 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 |
| 52 | Mineralogical, microstructural and physiochemical characteristics of organic-rich shales in the Sichuan Basin, China. Journal of Natural Gas Science and Engineering, 2015, 26, 1200-1212. | 4.4 | 38 |
| 53 | Experimental study on the pore structure characteristics of the Upper Ordovician Wufeng Formation shale in the southwest portion of the Sichuan Basin, China. Journal of Natural Gas Science and Engineering, 2015, 22, 530-539. | 4.4 | 122 |
| 54 | Experimental study on crack propagation in shale formations considering hydration and wettability. Journal of Natural Gas Science and Engineering, 2015, 23, 492-499. | 4.4 | 99 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Research on fabric characteristics and borehole instability mechanisms of fractured igneous rocks. <i>Petroleum Science</i> , 2013, 10, 212-218. | 4.9 | 5 |
| 58 | Synthesis and evaluation of novel water-soluble copolymers based on acrylamide and modular β -cyclodextrin. <i>Carbohydrate Polymers</i> , 2013, 96, 47-56. | 10.2 | 49 |
| 59 | Synthesis and clay stabilization of a water-soluble copolymer based on acrylamide, modular β -cyclodextrin, and AMPS. <i>Journal of Applied Polymer Science</i> , 2013, 128, 3398-3404. | 2.6 | 30 |
| 60 | 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 |
| 61 | 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 |