

Lei Li

List of Publications by Year in descending order

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54
papers

2,279
citations

257450

24
h-index

223800

46
g-index

54
all docs

54
docs citations

54
times ranked

1185
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of water on methane and carbon dioxide sorption in clay minerals by Monte Carlo simulations. Fluid Phase Equilibria, 2014, 382, 10-20.	2.5	199
2	Thermodynamic Modeling of Phase Behavior in Shale Media. SPE Journal, 2016, 21, 190-207.	3.1	176
3	Methane and carbon dioxide adsorption in clay-like slit pores by Monte Carlo simulations. Fluid Phase Equilibria, 2013, 360, 456-465.	2.5	156
4	Selectivity of Pore-Scale Elastic Microspheres as a Novel Profile Control and Oil Displacement Agent. Energy & Fuels, 2012, 26, 5092-5101.	5.1	145
5	Characterization of Methane Excess and Absolute Adsorption in Various Clay Nanopores from Molecular Simulation. Scientific Reports, 2017, 7, 12040.	3.3	145
6	Flow of methane in shale nanopores at low and high pressure by molecular dynamics simulations. Journal of Chemical Physics, 2015, 143, 104315.	3.0	126
7	Effect of the Injection Pressure on Enhancing Oil Recovery in Shale Cores during the CO ₂ Huff-n-Puff Process When It Is above and below the Minimum Miscibility Pressure. Energy & Fuels, 2017, 31, 3856-3867.	5.1	89
8	A comparative study of CO ₂ and N ₂ huff-n-puff EOR performance in shale oil production. Journal of Petroleum Science and Engineering, 2019, 181, 106174.	4.2	71
9	Effect of water film on oil flow in quartz nanopores from molecular perspectives. Fuel, 2020, 262, 116560.	6.4	68
10	Study of liquid-liquid two-phase flow in hydrophilic nanochannels by molecular simulations and theoretical modeling. Chemical Engineering Journal, 2020, 395, 125053.	12.7	59
11	Slip length of methane flow under shale reservoir conditions: Effect of pore size and pressure. Fuel, 2020, 259, 116237.	6.4	56
12	Controllable preparation, rheology, and plugging property of micron-grade polyacrylamide microspheres as a novel profile control and flooding agent. Journal of Applied Polymer Science, 2013, 130, 1124-1130.	2.6	54
13	Experimental study of core size effect on CH ₄ huff-n-puff enhanced oil recovery in liquid-rich shale reservoirs. Journal of Natural Gas Science and Engineering, 2016, 34, 1392-1402.	4.4	52
14	Nanopore confinement effects on phase behavior and capillary pressure in a Wolfcamp shale reservoir. Journal of the Taiwan Institute of Chemical Engineers, 2017, 78, 317-328.	5.3	52
15	Experimental and Numerical Study on CO ₂ Sweep Volume during CO ₂ Huff-n-Puff Enhanced Oil Recovery Process in Shale Oil Reservoirs. Energy & Fuels, 2019, 33, 4017-4032.	5.1	52
16	Further Investigation of Effects of Injection Pressure and Imbibition Water on CO ₂ Huff-n-Puff Performance in Liquid-Rich Shale Reservoirs. Energy & Fuels, 2018, 32, 5789-5798.	5.1	50
17	CO ₂ -regulated octane flow in calcite nanopores from molecular perspectives. Fuel, 2021, 286, 119299.	6.4	46
18	A comparative experimental study of gas injection in shale plugs by flooding and huff-n-puff processes. Journal of Natural Gas Science and Engineering, 2017, 38, 195-202.	4.4	45

#	ARTICLE	IF	CITATIONS
19	Further Discuss the Roles of Soaking Time and Pressure Depletion Rate in Gas Huff-n-Puff Process in Fractured Liquid-Rich Shale Reservoirs. , 2016, , .		42
20	Molecular simulation study of oil-water two-phase fluid transport in shale inorganic nanopores. Chemical Engineering Science, 2021, 245, 116948.	3.8	42
21	Experimental investigation of shale oil recovery from Qianjiang core samples by the CO ₂ huff-n-puff EOR method. RSC Advances, 2019, 9, 28857-28869.	3.6	37
22	Gas Selection for Huff-n-Puff EOR in Shale Oil Reservoirs Based upon Experimental and Numerical Study. , 2017, , .		34
23	Numerical analysis of cyclic CH ₄ injection in liquid-rich shale reservoirs based on the experiments using different-diameter shale cores and crude oil. Journal of Natural Gas Science and Engineering, 2017, 39, 1-14.	4.4	33
24	Molecular Dynamics Study on CO ₂ Storage in Water-Filled Kerogen Nanopores in Shale Reservoirs: Effects of Kerogen Maturity and Pore Size. Langmuir, 2021, 37, 542-552.	3.5	33
25	Investigation of microscopic residual stress and its effects on stress corrosion behavior of NiAl bronze alloy using in situ neutron diffraction/EBSD/tensile corrosion experiment. Materials Characterization, 2020, 164, 110351.	4.4	32
26	Upscale methodology for gas huff-n-puff process in shale oil reservoirs. Journal of Petroleum Science and Engineering, 2017, 153, 36-46.	4.2	26
27	Relative permeability model of oil-water flow in nanoporous media considering multi-mechanisms. Journal of Petroleum Science and Engineering, 2019, 183, 106361.	4.2	23
28	Molecular insight into the boundary conditions of water flow in clay nanopores. Journal of Molecular Liquids, 2020, 311, 113292.	4.9	23
29	Preparation and characterization of polyacrylamide nanomicrospheres and its profile control and flooding performance. Journal of Applied Polymer Science, 2013, 127, 3910-3915.	2.6	22
30	Hydrocarbon mixture phase behavior in multi-scale systems in relation to shale oil recovery: The effect of pore size distributions. Fuel, 2021, 291, 120141.	6.4	22
31	Evaluation of CO ₂ storage of water alternating gas flooding using experimental and numerical simulation methods. Fuel, 2022, 311, 122489.	6.4	22
32	Characteristics and mechanisms of supercritical CO ₂ flooding under different factors in low-permeability reservoirs. Petroleum Science, 2022, 19, 1174-1184.	4.9	22
33	Hydro-mechanical-chemical modeling of sub-nanopore capillary-confinement on CO ₂ -CCUS-EOR. Energy, 2021, 225, 120203.	8.8	20
34	Transport and Retention Behaviors of Deformable Polyacrylamide Microspheres in Convergent"Divergent Microchannels. Environmental Science & Technology, 2020, 54, 10876-10884.	10.0	18
35	Tight gas production model considering TPG as a function of pore pressure, permeability and water saturation. Petroleum Science, 2020, 17, 1356-1369.	4.9	18
36	Optimal microstructures on fatigue properties of friction stir processed NiAl bronze alloy and its resistant fatigue crack growth mechanism. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 771, 138577.	5.6	16

#	ARTICLE	IF	CITATIONS
37	Role of Alcohol as a Cosurfactant at the Brine-Oil Interface under a Typical Reservoir Condition. <i>Langmuir</i> , 2020, 36, 5198-5207.	3.5	16
38	Molecular dynamic study on structural and dynamic properties of water, counter-ions and polyethylene glycols in Na-montmorillonite interlayers. <i>Applied Surface Science</i> , 2021, 536, 147700.	6.1	16
39	Experimental investigation on low-velocity seepage characteristics and influencing factors in a shale oil reservoir. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107732.	4.2	14
40	The numerical simulation and wellbore modelling of steam injection and stored heat recovery from light oil reservoir. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2021, 43, 1-16.	2.3	14
41	A new model for predicting irreducible water saturation in tight gas reservoirs. <i>Petroleum Science</i> , 2020, 17, 1087-1100.	4.9	13
42	Water-Gas Two-Phase Flow Behavior of Multi-Fractured Horizontal Wells in Shale Gas Reservoirs. <i>Processes</i> , 2019, 7, 664.	2.8	12
43	Asphaltene deposition and permeability impairment in shale reservoirs during CO ₂ -huff-n-puff EOR process. <i>Petroleum Science and Technology</i> , 2020, 38, 384-390.	1.5	12
44	Investigation of Gas Penetration Depth During Gas Huff-N-Puff EOR Process in Unconventional Oil Reservoirs. , 2018, , .		10
45	Lattice Boltzmann Model for Oil/Water Two-Phase Flow in Nanoporous Media Considering Heterogeneous Viscosity, Liquid/Solid, and Liquid/Liquid Slip. <i>SPE Journal</i> , 2022, 27, 3508-3524.	3.1	8
46	CO ₂ -oil diffusion, adsorption and miscible flow in nanoporous media from pore-scale perspectives. <i>Chemical Engineering Journal</i> , 2022, 450, 137957.	12.7	8
47	CO ₂ -prepad injection EOR simulation and sensitivity analysis considering miscibility and geomechanics in tight oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107905.	4.2	6
48	Immiscible/Near-Miscible relative permeability for confined fluids at high-pressure and high-temperature for a fractal reservoir. <i>Fuel</i> , 2022, 310, 122389.	6.4	6
49	A New Slip Length Model for Enhanced Water Flow Coupling Molecular Interaction, Pore Dimension, Wall Roughness, and Temperature. <i>Advances in Polymer Technology</i> , 2019, 2019, 1-12.	1.7	5
50	Distribution of a water film confined in inorganic nanopores in real shale gas reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2022, 209, 109831.	4.2	5
51	PREDICTED MODEL OF RELATIVE PERMEABILITY CONSIDERING WATER DISTRIBUTION CHARACTERISTICS IN TIGHT SANDSTONE GAS RESERVOIRS. <i>Fractals</i> , 2020, 28, 2050012.	3.7	4
52	CO ₂ -Fluid-Rock Interactions and the Coupled Geomechanical Response during CCUS Processes in Unconventional Reservoirs. <i>Geofluids</i> , 2021, 2021, 1-22.	0.7	2
53	Frontier Enhanced Oil Recovery (EOR) Research on the Application of Imbibition Techniques in High-Pressure Forced Soaking of Hydraulically Fractured Shale Oil Reservoirs. <i>Geofluids</i> , 2021, 2021, 1-17.	0.7	2
54	Study of Imbibition Effect Using Temporal-Scale Analysis of Two-Phase Flow in a Tight Reservoir. <i>Energy & Fuels</i> , 0, , .	5.1	0