

Huazhou Li

List of Publications by Year in descending order

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120
papers

2,888
citations

159525

30
h-index

197736

49
g-index

122
all docs

122
docs citations

122
times ranked

1619
citing authors

#	ARTICLE	IF	CITATIONS
1	Determination of movable fluid percentage and movable fluid porosity in ultra-low permeability sandstone using nuclear magnetic resonance (NMR) technique. <i>Journal of Petroleum Science and Engineering</i> , 2015, 133, 258-267.	2.1	176
2	Enhanced Swelling Effect and Viscosity Reduction of Solvent(s)/CO ₂ /Heavy-Oil Systems. <i>SPE Journal</i> , 2013, 18, 695-707.	1.7	172
3	Pore structure characterization, permeability evaluation and enhanced gas recovery techniques of tight gas sandstones. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 28, 536-547.	2.1	168
4	Determination of the absolute adsorption/desorption isotherms of CH ₄ and n-C ₄ H ₁₀ on shale from a nano-scale perspective. <i>Fuel</i> , 2018, 218, 67-77.	3.4	94
5	Modified \ln Function for the Peng-Robinson Equation of State To Improve the Vapor Pressure Prediction of Non-hydrocarbon and Hydrocarbon Compounds. <i>Energy & Fuels</i> , 2011, 25, 215-223.	2.5	93
6	Determination of Diffusion Coefficient for Alkane Solvent-CO ₂ Mixtures in Heavy Oil with Consideration of Swelling Effect. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 1533-1549.	1.8	82
7	An Improved CO ₂ -Oil Minimum Miscibility Pressure Correlation for Live and Dead Crude Oils. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3516-3523.	1.8	77
8	Determination of Multiphase Boundaries and Swelling Factors of Solvent-CO ₂ -Heavy Oil Systems at High Pressures and Elevated Temperatures. <i>Energy & Fuels</i> , 2013, 27, 1293-1306.	2.5	74
9	Measurements and Modeling of Interfacial Tension for CO ₂ /CH ₄ /Brine Systems under Reservoir Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 12358-12375.	1.8	73
10	Experimental and Theoretical Determination of Equilibrium Interfacial Tension for the Solvent-CO ₂ -Heavy Oil Systems. <i>Energy & Fuels</i> , 2012, 26, 1776-1786.	2.5	71
11	Comparison of Peng-Robinson Equation of State With Capillary Pressure Model With Engineering Density-Functional Theory in Describing the Phase Behavior of Confined Hydrocarbons. <i>SPE Journal</i> , 2018, 23, 1784-1797.	1.7	62
12	Determination of Individual Diffusion Coefficients of Solvent/CO ₂ Mixture in Heavy Oil With Pressure-Decay Method. <i>SPE Journal</i> , 2016, 21, 131-143.	1.7	61
13	Phase Behaviour of C ₃ H ₈ /n-C ₄ H ₁₀ /Heavy-Oil Systems at High Pressures and Elevated Temperatures. <i>Journal of Canadian Petroleum Technology</i> , 2013, 52, 30-40.	2.3	59
14	Competitive adsorption behavior of hydrocarbon(s)/CO ₂ mixtures in a double-nanopore system using molecular simulations. <i>Fuel</i> , 2019, 252, 612-621.	3.4	59
15	Quantitative study on the stress sensitivity of pores in tight sandstone reservoirs of Ordos basin using NMR technique. <i>Journal of Petroleum Science and Engineering</i> , 2019, 172, 401-410.	2.1	57
16	Improved pore-structure characterization in shale formations with FESEM technique. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 35, 309-319.	2.1	56
17	Impact of Secondary and Tertiary Floods on Microscopic Residual Oil Distribution in Medium-to-High Permeability Cores with NMR Technique. <i>Energy & Fuels</i> , 2015, 29, 4721-4729.	2.5	55
18	Comprehensive characterization of pore and throat system for tight sandstone reservoirs and associated permeability determination method using SEM, rate-controlled mercury and high pressure mercury. <i>Journal of Petroleum Science and Engineering</i> , 2019, 174, 514-524.	2.1	51

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19	Coupling heat and mass transfer for a gas mixture–heavy oil system at high pressures and elevated temperatures. <i>International Journal of Heat and Mass Transfer</i> , 2014, 74, 173-184.	2.5	45
20	An Experimental Study of Multiphase Behavior for <i>n</i> -Butane/Bitumen/Water Mixtures. <i>SPE Journal</i> , 2017, 22, 783-798.	1.7	44
21	Effect of injection parameters on proppant transport in rough vertical fractures: An experimental analysis on visual models. <i>Journal of Petroleum Science and Engineering</i> , 2019, 180, 380-395.	2.1	43
22	Pressure maintenance and improving oil recovery with immiscible CO ₂ injection in thin heavy oil reservoirs. <i>Journal of Petroleum Science and Engineering</i> , 2013, 112, 139-152.	2.1	39
23	Use of Nickel Nanoparticles for Promoting Aquathermolysis Reaction During Cyclic Steam Stimulation. <i>SPE Journal</i> , 2018, 23, 145-156.	1.7	39
24	Determination of Three-Phase Boundaries of Solvent(s)–CO ₂ –Heavy Oil Systems under Reservoir Conditions. <i>Energy & Fuels</i> , 2013, 27, 145-153.	2.5	35
25	Experimental investigation of combined electromagnetic heating and solvent-assisted gravity drainage for heavy oil recovery. <i>Journal of Petroleum Science and Engineering</i> , 2017, 154, 589-601.	2.1	35
26	Preparation and characterization of a new negatively charged polytetrafluoroethylene membrane for treating oilfield wastewater. <i>Journal of Membrane Science</i> , 2011, 371, 286-292.	4.1	34
27	A review of experimental studies on the proppant settling in hydraulic fractures. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109211.	2.1	34
28	History matching and production optimization of water flooding based on a data-driven interwell numerical simulation model. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 48-66.	2.1	33
29	Comparison of SO ₂ with CO ₂ for recovering shale resources using low-field nuclear magnetic resonance. <i>Fuel</i> , 2019, 245, 563-569.	3.4	33
30	A visual experimental study on proppants transport in rough vertical fractures. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 134, 104446.	2.6	33
31	Influence of Pressure on Spontaneous Imbibition in Tight Sandstone Reservoirs. <i>Energy & Fuels</i> , 2020, 34, 9275-9282.	2.5	31
32	The study of enhanced displacement efficiency in tight sandstone from the combination of spontaneous and dynamic imbibition. <i>Journal of Petroleum Science and Engineering</i> , 2021, 199, 108327.	2.1	31
33	Effective diffusion coefficients of gas mixture in heavy oil under constant-pressure conditions. <i>Heat and Mass Transfer</i> , 2017, 53, 1527-1540.	1.2	28
34	Effect of asphaltene precipitation on CO ₂ -flooding performance in low-permeability sandstones: a nuclear magnetic resonance study. <i>RSC Advances</i> , 2017, 7, 38367-38376.	1.7	28
35	Quantitative study on the blockage degree of pores due to asphaltene precipitation in low-permeability reservoirs with NMR technique. <i>Journal of Petroleum Science and Engineering</i> , 2018, 163, 703-711.	2.1	28
36	Phase behavior of N ₂ / <i>n</i> -C ₄ H ₁₀ in a partially confined space derived from shale sample. <i>Journal of Petroleum Science and Engineering</i> , 2018, 160, 442-451.	2.1	27

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37	Validity of the Kelvin equation and the equation-of-state-with-capillary-pressure model for the phase behavior of a pure component under nanoconfinement. <i>Chemical Engineering Science</i> , 2020, 226, 115839.	1.9	23
38	Stability and mobility of foam generated by gas-solvent/surfactant mixtures under reservoir conditions. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 34, 366-375.	2.1	22
39	An improved volume translation strategy for PR EOS without crossover issue. <i>Fluid Phase Equilibria</i> , 2018, 470, 164-175.	1.4	19
40	Technical and economic feasibility of a novel heavy oil recovery method: Geothermal energy assisted heavy oil recovery. <i>Energy</i> , 2019, 181, 853-867.	4.5	19
41	Thermal stimulation of shale formations by electromagnetic heating: A clean technique for enhancing oil and gas recovery. <i>Journal of Cleaner Production</i> , 2020, 277, 123197.	4.6	19
42	A Review of Phase Behavior Mechanisms of CO ₂ EOR and Storage in Subsurface Formations. <i>Industrial & Engineering Chemistry Research</i> , 2022, 61, 10298-10318.	1.8	19
43	Phase state variations for supercritical carbon dioxide drilling. , 2016, 6, 83-93.		18
44	Production Forecasting for Shale Gas Reservoirs With Fast Marching-Succession of Steady States Method. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	17
45	Pressure-transient behavior in class III hydrate reservoirs. <i>Energy</i> , 2019, 170, 391-402.	4.5	17
46	Investigation on the Mechanisms of Spontaneous Imbibition at High Pressures for Tight Oil Recovery. <i>ACS Omega</i> , 2020, 5, 12727-12734.	1.6	17
47	Imbibition and Oil Recovery Mechanism of Fracturing Fluids in Tight Sandstone Reservoirs. <i>ACS Omega</i> , 2021, 6, 1991-2000.	1.6	17
48	Design and Performance Evaluation of a Unique Deepwater Cement Slurry. <i>SPE Drilling and Completion</i> , 2011, 26, 220-226.	0.9	16
49	Criterion for determining crossover phenomenon in volume-translated equation of states. <i>Fluid Phase Equilibria</i> , 2016, 430, 1-12.	1.4	16
50	A Power-Law Mixing Rule for Predicting Apparent Diffusion Coefficients of Binary Gas Mixtures in Heavy Oil. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	16
51	A visual experimental study: Resin-coated ceramic proppants transport within rough vertical models. <i>Journal of Petroleum Science and Engineering</i> , 2020, 191, 107142.	2.1	15
52	Enhanced Swelling Effect and Viscosity Reduction of Solvents-CO ₂ -Heavy Oil Systems. , 2011, , .		14
53	Improvement of the Recovery Factor Using Nano-Metal Particles at the Late Stages of Cyclic Steam Stimulation. , 2015, , .		14
54	An augmented free-water three-phase Rachford-Rice algorithm for CO ₂ /hydrocarbons/water mixtures. <i>Fluid Phase Equilibria</i> , 2017, 450, 86-98.	1.4	14

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55	A two-phase flash algorithm with the consideration of capillary pressure at specified mole numbers, volume and temperature. <i>Fluid Phase Equilibria</i> , 2019, 485, 67-82.	1.4	14
56	An improved volume-translated SRK EOS dedicated to more accurate determination of saturated and single-phase liquid densities. <i>Fluid Phase Equilibria</i> , 2020, 521, 112724.	1.4	14
57	Drillstring failure analysis and its prevention in northeast Sichuan, China. <i>Engineering Failure Analysis</i> , 2011, 18, 1233-1241.	1.8	13
58	Determination of optimal density difference for improving cement displacement efficiency in deviated wells. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 31, 119-128.	2.1	13
59	Study on the blockage in pores due to asphaltene precipitation during different CO ₂ flooding schemes with NMR technique. <i>Petroleum Science and Technology</i> , 2017, 35, 1660-1666.	0.7	13
60	A Robust Three-Phase Isenthalpic Flash Algorithm Based on Free-Water Assumption. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2018, 140, .	1.4	13
61	A New Three-Phase Flash Algorithm Considering Capillary Pressure in a Confined Space. <i>Chemical Engineering Science</i> , 2019, 193, 346-363.	1.9	13
62	Determination of the permittivity of n-hexane/oil sands mixtures over the frequency range of 200 MHz to 10 GHz. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 2650-2660.	0.9	12
63	New two-phase and three-phase Rachford-Rice algorithms based on free-water assumption. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 390-403.	0.9	12
64	Improved three-phase equilibrium calculation algorithm for water/hydrocarbon mixtures. <i>Fuel</i> , 2019, 244, 517-527.	3.4	12
65	Predicting Waterflooding Performance in Low-Permeability Reservoirs With Linear Dynamical Systems. <i>SPE Journal</i> , 2017, 22, 1596-1608.	1.7	11
66	Phase-Behavior Modeling of Hydrocarbon Fluids in Nanopores Using PR-EOS Coupled with a Modified Young-Laplace Equation. <i>ACS Omega</i> , 2020, 5, 15177-15191.	1.6	11
67	Improved Prediction of Saturated and Single-Phase Liquid Densities of Water through Volume-Translated SRK EOS. <i>Fluid Phase Equilibria</i> , 2021, 528, 112852.	1.4	11
68	Simple and Robust Algorithm for Multiphase Equilibrium Computations at Temperature and Volume Specifications. <i>SPE Journal</i> , 2021, , 1-20.	1.7	11
69	Determination of Saturation Pressures and Swelling Factors of Solvent(s)-Heavy Oil Systems under Reservoir Conditions. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 1965-1972.	1.8	10
70	A Semianalytical Model for Simulating Combined Electromagnetic Heating and Solvent-Assisted Gravity Drainage. <i>SPE Journal</i> , 2018, 23, 1248-1270.	1.7	10
71	Robust Three-Phase Vapor-Liquid-Asphaltene Equilibrium Calculation Algorithm for Isothermal CO ₂ Flooding Applications. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15666-15680.	1.8	10
72	Characterization of unique natural gas flow in fracture-vuggy carbonate reservoir: A case study on Dengying carbonate reservoir in China. <i>Journal of Petroleum Science and Engineering</i> , 2019, 182, 106243.	2.1	10

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73	Phase Behavior Measurements and Modeling for N ₂ /CO ₂ /Extra Heavy Oil Mixtures at Elevated Temperatures. Industrial & Engineering Chemistry Research, 2019, 58, 428-439.	1.8	10
74	Elongated bubble centring in horizontal gas-liquid slug flow. International Journal of Multiphase Flow, 2020, 123, 103158.	1.6	10
75	Determination of the effect of resin-coating on ceramic proppant settlement for optimal hydraulic fracturing applications. Powder Technology, 2020, 373, 109-117.	2.1	10
76	Minimum miscibility pressure determination in confined nanopores considering pore size distribution of tight/shale formations. Fuel, 2021, 286, 119450.	3.4	10
77	Pressure-Transient Behavior of Partially Penetrating Inclined Fractures With a Finite Conductivity. SPE Journal, 2019, 24, 811-833.	1.7	9
78	Quantitative Evaluation of the Plugging Effect of the Gel Particle System Flooding Agent Using NMR Technique. Energy & Fuels, 2020, 34, 4329-4337.	2.5	9
79	INSIM-FPT-3D: A Data-Driven Model for History Matching, Water-Breakthrough Prediction and Well-Connectivity Characterization in Three-Dimensional Reservoirs. , 2021, , .		9
80	Phase Behaviour of CH ₄ -C ₃ H ₈ -Heavy Oil Systems under Reservoir Conditions. , 2013, , .		8
81	A new index used to characterize the near-wellbore fracture network in naturally fractured gas reservoirs. Journal of Natural Gas Science and Engineering, 2018, 55, 52-63.	2.1	8
82	Stabilization of nickel nanoparticle suspensions with the aid of polymer and surfactant: static bottle tests and dynamic micromodel flow tests. Petroleum Science, 2020, 17, 1014-1024.	2.4	8
83	A rapid waterflooding optimization method based on INSIM-FPT data-driven model and its application to three-dimensional reservoirs. Fuel, 2021, 292, 120219.	3.4	8
84	Foam Stability of Solvent/Surfactant/Heavy-Oil System Under Reservoir Conditions. , 2014, , .		7
85	A Semi-Analytical Model for Characterizing the Pressure Transient Behavior of Finite-Conductivity Horizontal Fractures. Transport in Porous Media, 2018, 123, 367-402.	1.2	7
86	A Modified Multiple-Mixing-Cell Algorithm for Minimum Miscibility Pressure Prediction with the Consideration of the Asphaltene-Precipitation Effect. Industrial & Engineering Chemistry Research, 2019, 58, 15332-15343.	1.8	6
87	A Semianalytical Model for Evaluating the Performance of a Refractured Vertical Well With an Orthogonal Refracture. SPE Journal, 2019, 24, 891-911.	1.7	6
88	Phase Behavior of Fluid Mixtures in a Partially Confined Space. , 2016, , .		5
89	Application of augmented free-water Rachford-Rice algorithm to water/hydrocarbons mixtures considering the dissolution of methane in the aqueous phase. Fluid Phase Equilibria, 2018, 460, 75-84.	1.4	5
90	Multiphase Equilibria of Solvent-Steam-Bitumen System within SAGD Steam-Chamber Boundary. , 2015, , .		4

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91	Application of a Novel Hyperbranched-Polymer Fracturing-Fluid System in a Low-Permeability Heavy-Oil Reservoir. SPE Production and Operations, 2016, 31, 325-336.	0.4	4
92	Mineralogical characteristics of continental shale: a case study in Yan-Chang Formation, Ordos Basin. Australian Journal of Earth Sciences, 2018, 65, 851-862.	0.4	4
93	Effects of pore structure and salinity on the imbibition of shale samples using physical simulation and NMR technique: A case from Chang 7 shale, Ordos basin. Simulation, 2021, 97, 167-173.	1.1	4
94	A practical gas permeability equation for tight and ultra-tight rocks. Journal of Natural Gas Science and Engineering, 2021, 95, 104215.	2.1	4
95	BUCKLING ANALYSIS OF COMPOSITE LONG CYLINDERS USING PROBABILISTIC FINITE ELEMENT METHOD. Mechanika, 2011, 17, .	0.3	4
96	Use of Nickel Nanoparticles for Promoting Aquathermolysis Reaction During Cyclic Steam Stimulation. , 2016, , .		3
97	Determination of Hildebrand solubility parameter for pure hydrocarbons by incorporating temperature-dependent volume translation into Peng-Robinson equation of state. Journal of Supercritical Fluids, 2020, 164, 104945.	1.6	3
98	An improved vapor-liquid-asphaltene three-phase equilibrium computation algorithm. Fluid Phase Equilibria, 2021, 537, 113004.	1.4	3
99	More Accurate Determination of Isothermal Compressibility and Isobaric Thermal Expansivity Using Volume-Translated Equations of State. Fluid Phase Equilibria, 2022, 551, 113257.	1.4	3
100	A Modified Multiple-Mixing-Cell Method with Sub-Cells for MMP Determinations. Energies, 2021, 14, 7846.	1.6	3
101	Four-Phase Flash Calculation Algorithm Based on the Free-Water Assumption. Industrial & Engineering Chemistry Research, 2022, 61, 3742-3753.	1.8	3
102	Phase Behaviour of C ₃ H ₈ -C ₄ H ₁₀ -Heavy Oil Systems at High Pressures and Elevated Temperatures. , 2012, , .		2
103	A pragmatic approach for identifying effective lacustrine shale payzones. Journal of Natural Gas Science and Engineering, 2018, 58, 201-215.	2.1	2
104	A semi-analytical model for characterizing transient flow behavior of reoriented refractures. Journal of Petroleum Science and Engineering, 2019, 177, 921-940.	2.1	2
105	Towards accurate phase behavior modeling for hydrogen sulfide/water mixtures. Fluid Phase Equilibria, 2020, 521, 112691.	1.4	2
106	Toward accurate density and interfacial tension modeling for carbon dioxide/water mixtures. Petroleum Science, 2021, 18, 509-529.	2.4	2
107	A modified cell-to-cell simulation model to determine the minimum miscibility pressure in tight/shale formations. Oil and Gas Science and Technology, 2021, 76, 48.	1.4	2
108	Assessment of hydrate flow obstacles during the initial restarting period of deep-water gas wells. Heat and Mass Transfer, 2021, 57, 1737.	1.2	2

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109	Status Quo of a CO2-Assisted Steam-Flooding Pilot Test in China. <i>Geofluids</i> , 2021, 2021, 1-13.	0.3	2
110	Multiphase Equilibrium Calculations. <i>Petroleum Engineering</i> , 2022, , 163-210.	0.6	2
111	A new vapor-liquid-asphaltene three-phase equilibrium computation algorithm based on the free-asphaltene assumption. <i>Fluid Phase Equilibria</i> , 2022, 556, 113392.	1.4	2
112	A Review on the Use of Chemicals as Steam Additives for Thermal Oil Recovery Applications. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2022, 144, .	1.4	2
113	ENHANCING CO2 FLOODING EFFICIENCY BY CHEMICAL FLOODING: A NUCLEAR MAGNETIC RESONANCE STUDY. <i>Special Topics and Reviews in Porous Media</i> , 2018, 9, 145-154.	0.6	1
114	Comprehensive characterization of nano-pore system for Chang 7 shale oil reservoir in Ordos Basin. <i>Energy Exploration and Exploitation</i> , 2021, 39, 180-200.	1.1	1
115	Study on Depth Prediction of Abrasive Water Jet Perforation Using Back Propagation Neural Network. , 2008, , .		0
116	Application of Novel Hyper-branched Polymer Fracturing Fluid System in Low-permeability Heavy Oil Reservoir. , 2015, , .		0
117	Production Decline Analysis of Oil and Gas Resources with Robust Fit and Time Series Analysis. <i>International Journal of Oil, Gas and Coal Technology</i> , 2016, 1, 1.	0.1	0
118	Prediction of Sphingomonas Protein Coding Regions Based on 3-Base Periodicity Analysis Method. <i>Current Proteomics</i> , 2018, 15, 151-158.	0.1	0
119	Cubic Equation of State. <i>Petroleum Engineering</i> , 2022, , 25-82.	0.6	0
120	Phase Stability Test. <i>Petroleum Engineering</i> , 2022, , 83-138.	0.6	0