

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	A review of experimental studies on the proppant settling in hydraulic fractures. Journal of Petroleum Science and Engineering, 2022, 208, 109211.	2.1	34
2	Cubic Equation of State. Petroleum Engineering, 2022, , 25-82.	0.6	0
3	Multiphase Equilibrium Calculations. Petroleum Engineering, 2022, , 163-210.	0.6	2
4	Phase Stability Test. Petroleum Engineering, 2022, , 83-138.	0.6	0
5	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
6	A new vapor-liquid-asphaltene three-phase equilibrium computation algorithm based on the free-asphaltene assumption. Fluid Phase Equilibria, 2022, 556, 113392.	1.4	2
7	A Review on the Use of Chemicals as Steam Additives for Thermal Oil Recovery Applications. Journal of Energy Resources Technology, Transactions of the ASME, 2022, 144, .	1.4	2
8	Four-Phase Flash Calculation Algorithm Based on the Free-Water Assumption. Industrial & Engineering Chemistry Research, 2022, 61, 3742-3753.	1.8	3
9	A Review of Phase Behavior Mechanisms of CO ₂ EOR and Storage in Subsurface Formations. Industrial & Engineering Chemistry Research, 2022, 61, 10298-10318.	1.8	19
10	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
11	Improved Prediction of Saturated and Single-Phase Liquid Densities of Water through Volume-Translated SRK EOS. Fluid Phase Equilibria, 2021, 528, 112852.	1.4	11
12	Toward accurate density and interfacial tension modeling for carbon dioxide/water mixtures. Petroleum Science, 2021, 18, 509-529.	2.4	2
13	Comprehensive characterization of nano-pore system for Chang 7 shale oil reservoir in Ordos Basin. Energy Exploration and Exploitation, 2021, 39, 180-200.	1.1	1
14	Minimum miscibility pressure determination in confined nanopores considering pore size distribution of tight/shale formations. Fuel, 2021, 286, 119450.	3.4	10
15	Imbibition and Oil Recovery Mechanism of Fracturing Fluids in Tight Sandstone Reservoirs. ACS Omega, 2021, 6, 1991-2000.	1.6	17
16	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
17	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
18	The study of enhanced displacement efficiency in tight sandstone from the combination of spontaneous and dynamic imbibition. Journal of Petroleum Science and Engineering, 2021, 199, 108327.	2.1	31

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19	Simple and Robust Algorithm for Multiphase Equilibrium Computations at Temperature and Volume Specifications. SPE Journal, 2021, , 1-20.	1.7	11
20	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
21	An improved vapor-liquid-asphaltene three-phase equilibrium computation algorithm. Fluid Phase Equilibria, 2021, 537, 113004.	1.4	3
22	A practical gas permeability equation for tight and ultra-tight rocks. Journal of Natural Gas Science and Engineering, 2021, 95, 104215.	2.1	4
23	INSIM-FPT-3D: A Data-Driven Model for History Matching, Water-Breakthrough Prediction and Well-Connectivity Characterization in Three-Dimensional Reservoirs. , 2021, , .		9
24	Status Quo of a CO ₂ -Assisted Steam-Flooding Pilot Test in China. Geofluids, 2021, 2021, 1-13.	0.3	2
25	A Modified Multiple-Mixing-Cell Method with Sub-Cells for MMP Determinations. Energies, 2021, 14, 7846.	1.6	3
26	Elongated bubble centring in horizontal gas-liquid slug flow. International Journal of Multiphase Flow, 2020, 123, 103158.	1.6	10
27	Thermal stimulation of shale formations by electromagnetic heating: A clean technique for enhancing oil and gas recovery. Journal of Cleaner Production, 2020, 277, 123197.	4.6	19
28	A visual experimental study on proppants transport in rough vertical fractures. International Journal of Rock Mechanics and Minings Sciences, 2020, 134, 104446.	2.6	33
29	An improved volume-translated SRK EOS dedicated to more accurate determination of saturated and single-phase liquid densities. Fluid Phase Equilibria, 2020, 521, 112724.	1.4	14
30	Influence of Pressure on Spontaneous Imbibition in Tight Sandstone Reservoirs. Energy & Fuels, 2020, 34, 9275-9282.	2.5	31
31	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
32	Validity of the Kelvin equation and the equation-of-state-with-capillary-pressure model for the phase behavior of a pure component under nanoconfinement. Chemical Engineering Science, 2020, 226, 115839.	1.9	23
33	Investigation on the Mechanisms of Spontaneous Imbibition at High Pressures for Tight Oil Recovery. ACS Omega, 2020, 5, 12727-12734.	1.6	17
34	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
35	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
36	A visual experimental study: Resin-coated ceramic proppants transport within rough vertical models. Journal of Petroleum Science and Engineering, 2020, 191, 107142.	2.1	15

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37	Quantitative Evaluation of the Plugging Effect of the Gel Particle System Flooding Agent Using NMR Technique. <i>Energy & Fuels</i> , 2020, 34, 4329-4337.	2.5	9
38	Phase-Behavior Modeling of Hydrocarbon Fluids in Nanopores Using PR-EOS Coupled with a Modified Young's Laplace Equation. <i>ACS Omega</i> , 2020, 5, 15177-15191.	1.6	11
39	Towards accurate phase behavior modeling for hydrogen sulfide/water mixtures. <i>Fluid Phase Equilibria</i> , 2020, 521, 112691.	1.4	2
40	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
41	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
42	A Modified Multiple-Mixing-Cell Algorithm for Minimum Miscibility Pressure Prediction with the Consideration of the Asphaltene-Precipitation Effect. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15332-15343.	1.8	6
43	Pressure-Transient Behavior of Partially Penetrating Inclined Fractures With a Finite Conductivity. <i>SPE Journal</i> , 2019, 24, 811-833.	1.7	9
44	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
45	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
46	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
47	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
48	A Semianalytical Model for Evaluating the Performance of a Refractured Vertical Well With an Orthogonal Refracture. <i>SPE Journal</i> , 2019, 24, 891-911.	1.7	6
49	Improved three-phase equilibrium calculation algorithm for water/hydrocarbon mixtures. <i>Fuel</i> , 2019, 244, 517-527.	3.4	12
50	A semi-analytical model for characterizing transient flow behavior of reoriented refractures. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 921-940.	2.1	2
51	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
52	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
53	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
54	Pressure-transient behavior in class III hydrate reservoirs. <i>Energy</i> , 2019, 170, 391-402.	4.5	17

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55	Quantitative study on the stress sensitivity of pores in tight sandstone reservoirs of Ordos basin using NMR technique. Journal of Petroleum Science and Engineering, 2019, 172, 401-410.	2.1	57
56	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
57	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
58	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
59	An improved volume translation strategy for PR EOS without crossover issue. Fluid Phase Equilibria, 2018, 470, 164-175.	1.4	19
60	Determination of the absolute adsorption/desorption isotherms of CH ₄ and n-C ₄ H ₁₀ on shale from a nano-scale perspective. Fuel, 2018, 218, 67-77.	3.4	94
61	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
62	Phase behavior of N ₂ /n-C ₄ H ₁₀ in a partially confined space derived from shale sample. Journal of Petroleum Science and Engineering, 2018, 160, 442-451.	2.1	27
63	Production Forecasting for Shale Gas Reservoirs With Fast Marching-Succession of Steady States Method. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	17
64	A Robust Three-Phase Isenthalpic Flash Algorithm Based on Free-Water Assumption. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	13
65	Determination of the permittivity of n-hexane/oil sands mixtures over the frequency range of 200 MHz to 10 GHz. Canadian Journal of Chemical Engineering, 2018, 96, 2650-2660.	0.9	12
66	A Semianalytical Model for Simulating Combined Electromagnetic Heating and Solvent-Assisted Gravity Drainage. SPE Journal, 2018, 23, 1248-1270.	1.7	10
67	Comparison of Peng-Robinson Equation of State With Capillary Pressure Model With Engineering Density-Functional Theory in Describing the Phase Behavior of Confined Hydrocarbons. SPE Journal, 2018, 23, 1784-1797.	1.7	62
68	Use of Nickel Nanoparticles for Promoting Aquathermolysis Reaction During Cyclic Steam Stimulation. SPE Journal, 2018, 23, 145-156.	1.7	39
69	A Power-Law Mixing Rule for Predicting Apparent Diffusion Coefficients of Binary Gas Mixtures in Heavy Oil. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	16
70	New two-phase and three-phase Rachford-Rice algorithms based on free-water assumption. Canadian Journal of Chemical Engineering, 2018, 96, 390-403.	0.9	12
71	Quantitative study on the blockage degree of pores due to asphaltene precipitation in low-permeability reservoirs with NMR technique. Journal of Petroleum Science and Engineering, 2018, 163, 703-711.	2.1	28
72	ENHANCING CO ₂ FLOODING EFFICIENCY BY CHEMICAL FLOODING: A NUCLEAR MAGNETIC RESONANCE STUDY. Special Topics and Reviews in Porous Media, 2018, 9, 145-154.	0.6	1

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73	A pragmatic approach for identifying effective lacustrine shale payzones. Journal of Natural Gas Science and Engineering, 2018, 58, 201-215.	2.1	2
74	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
75	Prediction of Sphingomonas Protein Coding Regions Based on 3-Base Periodicity Analysis Method. Current Proteomics, 2018, 15, 151-158.	0.1	0
76	An Experimental Study of Multiphase Behavior for <i>n</i> -Butane/Bitumen/Water Mixtures. SPE Journal, 2017, 22, 783-798.	1.7	44
77	Effective diffusion coefficients of gas mixture in heavy oil under constant-pressure conditions. Heat and Mass Transfer, 2017, 53, 1527-1540.	1.2	28
78	Predicting Waterflooding Performance in Low-Permeability Reservoirs With Linear Dynamical Systems. SPE Journal, 2017, 22, 1596-1608.	1.7	11
79	Effect of asphaltene precipitation on CO ₂ -flooding performance in low-permeability sandstones: a nuclear magnetic resonance study. RSC Advances, 2017, 7, 38367-38376.	1.7	28
80	An augmented free-water three-phase Rachford-Rice algorithm for CO ₂ /hydrocarbons/water mixtures. Fluid Phase Equilibria, 2017, 450, 86-98.	1.4	14
81	Study on the blockage in pores due to asphaltene precipitation during different CO ₂ flooding schemes with NMR technique. Petroleum Science and Technology, 2017, 35, 1660-1666.	0.7	13
82	Experimental investigation of combined electromagnetic heating and solvent-assisted gravity drainage for heavy oil recovery. Journal of Petroleum Science and Engineering, 2017, 154, 589-601.	2.1	35
83	Stability and mobility of foam generated by gas-solvent/surfactant mixtures under reservoir conditions. Journal of Natural Gas Science and Engineering, 2016, 34, 366-375.	2.1	22
84	Determination of Diffusion Coefficient for Alkane Solvent-CO ₂ Mixtures in Heavy Oil with Consideration of Swelling Effect. Industrial & Engineering Chemistry Research, 2016, 55, 1533-1549.	1.8	82
85	History matching and production optimization of water flooding based on a data-driven interwell numerical simulation model. Journal of Natural Gas Science and Engineering, 2016, 31, 48-66.	2.1	33
86	Determination of optimal density difference for improving cement displacement efficiency in deviated wells. Journal of Natural Gas Science and Engineering, 2016, 31, 119-128.	2.1	13
87	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
88	Improved pore-structure characterization in shale formations with FESEM technique. Journal of Natural Gas Science and Engineering, 2016, 35, 309-319.	2.1	56
89	Use of Nickel Nanoparticles for Promoting Aquathermolysis Reaction During Cyclic Steam Stimulation. , 2016, , .		3
90	Criterion for determining crossover phenomenon in volume-translated equation of states. Fluid Phase Equilibria, 2016, 430, 1-12.	1.4	16

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91	Measurements and Modeling of Interfacial Tension for CO ₂ /CH ₄ /Brine Systems under Reservoir Conditions. Industrial & Engineering Chemistry Research, 2016, 55, 12358-12375.	1.8	73
92	Phase Behavior of Fluid Mixtures in a Partially Confined Space. , 2016, , .		5
93	Determination of Individual Diffusion Coefficients of Solvent/CO ₂ Mixture in Heavy Oil With Pressure-Decay Method. SPE Journal, 2016, 21, 131-143.	1.7	61
94	Phase state variations for supercritical carbon dioxide drilling. , 2016, 6, 83-93.		18
95	Pore structure characterization, permeability evaluation and enhanced gas recovery techniques of tight gas sandstones. Journal of Natural Gas Science and Engineering, 2016, 28, 536-547.	2.1	168
96	Production Decline Analysis of Oil and Gas Resources with Robust Fit and Time Series Analysis. International Journal of Oil, Gas and Coal Technology, 2016, 1, 1.	0.1	0
97	Improvement of the Recovery Factor Using Nano-Metal Particles at the Late Stages of Cyclic Steam Stimulation. , 2015, , .		14
98	Multiphase Equilibria of Solvent-Steam-Bitumen System within SAGD Steam-Chamber Boundary. , 2015, , .		4
99	Application of Novel Hyper-branched Polymer Fracturing Fluid System in Low-permeability Heavy Oil Reservoir. , 2015, , .		0
100	Impact of Secondary and Tertiary Floods on Microscopic Residual Oil Distribution in Medium-to-High Permeability Cores with NMR Technique. Energy & Fuels, 2015, 29, 4721-4729.	2.5	55
101	Determination of movable fluid percentage and movable fluid porosity in ultra-low permeability sandstone using nuclear magnetic resonance (NMR) technique. Journal of Petroleum Science and Engineering, 2015, 133, 258-267.	2.1	176
102	Foam Stability of Solvent/Surfactant/Heavy-Oil System Under Reservoir Conditions. , 2014, , .		7
103	Coupling heat and mass transfer for a gas mixtureâ€“heavy oil system at high pressures and elevated temperatures. International Journal of Heat and Mass Transfer, 2014, 74, 173-184.	2.5	45
104	Determination of Saturation Pressures and Swelling Factors of Solvent(s)â€“Heavy Oil Systems under Reservoir Conditions. Industrial & Engineering Chemistry Research, 2014, 53, 1965-1972.	1.8	10
105	Pressure maintenance and improving oil recovery with immiscible CO ₂ injection in thin heavy oil reservoirs. Journal of Petroleum Science and Engineering, 2013, 112, 139-152.	2.1	39
106	Determination of Multiphase Boundaries and Swelling Factors of Solvent(s)â€“CO ₂ â€“Heavy Oil Systems at High Pressures and Elevated Temperatures. Energy & Fuels, 2013, 27, 1293-1306.	2.5	74
107	Determination of Three-Phase Boundaries of Solvent(s)â€“CO ₂ â€“Heavy Oil Systems under Reservoir Conditions. Energy & Fuels, 2013, 27, 145-153.	2.5	35
108	Phase Behaviour of C ₃ H ₈ /n-C ₄ H ₁₀ /Heavy-Oil Systems at High Pressures and Elevated Temperatures. Journal of Canadian Petroleum Technology, 2013, 52, 30-40.	2.3	59

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109	Phase Behaviour of CH ₄ -C ₃ H ₈ -Heavy Oil Systems under Reservoir Conditions. , 2013, , .		8
110	Enhanced Swelling Effect and Viscosity Reduction of Solvent(s)/CO ₂ /Heavy-Oil Systems. SPE Journal, 2013, 18, 695-707.	1.7	172
111	Phase Behaviour of C ₃ H ₈ -C ₄ H ₁₀ -Heavy Oil Systems at High Pressures and Elevated Temperatures. , 2012, , .		2
112	Experimental and Theoretical Determination of Equilibrium Interfacial Tension for the Solvent(s)-CO ₂ -Heavy Oil Systems. Energy & Fuels, 2012, 26, 1776-1786.	2.5	71
113	An Improved CO ₂ -Oil Minimum Miscibility Pressure Correlation for Live and Dead Crude Oils. Industrial & Engineering Chemistry Research, 2012, 51, 3516-3523.	1.8	77
114	Modified $\ln \phi$ Function for the Peng-Robinson Equation of State To Improve the Vapor Pressure Prediction of Non-hydrocarbon and Hydrocarbon Compounds. Energy & Fuels, 2011, 25, 215-223.	2.5	93
115	Enhanced Swelling Effect and Viscosity Reduction of Solvents-CO ₂ -Heavy Oil Systems. , 2011, , .		14
116	Design and Performance Evaluation of a Unique Deepwater Cement Slurry. SPE Drilling and Completion, 2011, 26, 220-226.	0.9	16
117	Drillstring failure analysis and its prevention in northeast Sichuan, China. Engineering Failure Analysis, 2011, 18, 1233-1241.	1.8	13
118	Preparation and characterization of a new negatively charged polytetrafluoroethylene membrane for treating oilfield wastewater. Journal of Membrane Science, 2011, 371, 286-292.	4.1	34
119	BUCKLING ANALYSIS OF COMPOSITE LONG CYLINDERS USING PROBABILISTIC FINITE ELEMENT METHOD. Mechanika, 2011, 17, .	0.3	4
120	Study on Depth Prediction of Abrasive Water Jet Perforation Using Back Propagation Neural Network. , 2008, , .		0