

Zhaomin Li

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

3,210
citations

159585

30
h-index

182427

51
g-index

108
all docs

108
docs citations

108
times ranked

1596
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Flue Gas on Steam Chamber Expansion in Steamflooding. SPE Journal, 2022, 27, 399-409.	3.1	3
2	Carbon dioxide diffusions in Methane-Dissolved pore Fluids: Implications for geological carbon storage and utilization in tight formations. Chemical Engineering Journal, 2022, 429, 132147.	12.7	8
3	Experimental investigation of innovative superheated vapor extraction technique in heavy oil reservoirs: A two-dimensional visual analysis. Energy, 2022, 238, 121882.	8.8	18
4	Effects of low-salinity water on the interface characteristics and imbibition process. Journal of Petroleum Science and Engineering, 2022, 208, 109564.	4.2	15
5	Hybrid CO ₂ -N ₂ huff-n-puff strategy in unlocking tight oil reservoirs. Fuel, 2022, 309, 122198.	6.4	27
6	Formulation evaluation of an innovative composite foamed gel with high temperature and salinity compatibility in heavy oil reservoirs. Journal of Petroleum Science and Engineering, 2022, 210, 110007.	4.2	9
7	Thermal flue gas utilization in delivering unconventional geo-energy. Fuel, 2022, 314, 123072.	6.4	4
8	A novel strategy to reduce carbon emissions of heavy oil thermal recovery: Condensation heat transfer performance of flue gas-assisted steam flooding. Applied Thermal Engineering, 2022, 205, 118076.	6.0	36
9	Flow characteristics and EOR mechanism of foam flooding in fractured vuggy reservoirs. Journal of Petroleum Science and Engineering, 2022, 211, 110170.	4.2	17
10	Experimental Study on the Mechanism of Nitrogen Foam to Improve the Recovery of Bottom-Water Heavy Oil Reservoir. Energy & Fuels, 2022, 36, 3457-3467.	5.1	7
11	Experimental investigation on the SiO ₂ nanoparticle foam system characteristics and its advantages in the heavy oil reservoir development. Journal of Petroleum Science and Engineering, 2022, 214, 110438.	4.2	11
12	Heat-Resistant CO ₂ Foam for Promoting Carbon Capture and Enhanced Oil Recovery. Frontiers in Energy Research, 2022, 10, .	2.3	1
13	Characteristics of CO ₂ foam plugging and migration: Implications for geological carbon storage and utilization in fractured reservoirs. Separation and Purification Technology, 2022, 294, 121190.	7.9	15
14	Assessing the performance of foams stabilized by anionic/nonionic surfactant mixture under high temperature and pressure conditions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 651, 129699.	4.7	3
15	Improved co-optimal and evaluable index of carbon sequestration and enhanced oil recovery. Simulation, 2021, 97, 145-154.	1.8	2
16	Interfacial Rheology of Foam Stabilized by Nanoparticles and Their Retention in Porous Media. Energy & Fuels, 2021, 35, 6541-6552.	5.1	15
17	Viscosity reduction of offshore heavy oil by application of a synthesized emulsifier and its microscopic mechanism during thermal recovery. Petroleum Science and Technology, 2021, 39, 421-429.	1.5	0
18	Analysis of Factors on Flue Gas Assisted SAGD Based on a 2D Visualization Physical Model. Energy & Fuels, 2021, 35, 14510-14518.	5.1	2

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19	Black Rice Huskash is a Useful Template for Foam Stability to Enhance Oil Recovery (EOR). Chemistry and Technology of Fuels and Oils, 2021, 56, 962-970.	0.5	2
20	Nanohydrodynamic Model and Transport Mechanisms of Tight Oil Confined in Nanopores Considering Liquid-Solid Molecular Interaction Effect. Industrial & Engineering Chemistry Research, 2021, 60, 18154-18165.	3.7	6
21	Influence of confinement effect on recovery mechanisms of CO ₂ -enhanced tight-oil recovery process considering critical properties shift, capillarity and adsorption. Fuel, 2020, 262, 116569.	6.4	20
22	Stability and Flow Properties of Oil-Based Foam Generated by CO ₂ . SPE Journal, 2020, 25, 416-431.	3.1	46
23	Experimental study on the characteristics of foam flow in fractures. Journal of Petroleum Science and Engineering, 2020, 185, 106663.	4.2	18
24	Experimental and Numerical Evaluation of Surfactant-Nanoparticles Foam for Enhanced Oil Recovery under High Temperature. Energy & Fuels, 2020, 34, 1005-1013.	5.1	17
25	Monitoring of CO ₂ and CO ₂ oil-based foam flooding processes in fractured low-permeability cores using nuclear magnetic resonance (NMR). Fuel, 2020, 263, 116648.	6.4	69
26	New insight into CO ₂ huff-n-puff process for extraheavy oil recovery via viscosity reducer agents: An experimental study. Journal of CO ₂ Utilization, 2020, 42, 101312.	6.8	25
27	Experimental Investigation on Microscopic Force Measurement of Foam and Heavy Oil. Langmuir, 2020, 36, 14748-14762.	3.5	2
28	Study of Rheological Properties and Micro-mechanism of Heavy Oil Emulsion Prepared via Ultrasonic Dispersion. Energy & Fuels, 2020, 34, 15843-15854.	5.1	8
29	A novel system for reducing CO ₂ -crude oil minimum miscibility pressure with CO ₂ -soluble surfactants. Fuel, 2020, 281, 118690.	6.4	35
30	Investigation of the Effect of Nanoparticle-Stabilized Foam on EOR: Nitrogen Foam and Methane Foam. ACS Omega, 2020, 5, 19092-19103.	3.5	59
31	Aqueous CO ₂ Foam Armored by Particulate Matter from Flue Gas for Mobility Control in Porous Media. Energy & Fuels, 2020, 34, 14464-14475.	5.1	5
32	Flow Characteristics of Foam in Fracture Networks. Industrial & Engineering Chemistry Research, 2020, 59, 19817-19828.	3.7	13
33	Influence of the Interfacial Properties on the Stability of Water in Heavy Oil Emulsions in Thermal Recovery Process. Geofluids, 2020, 2020, 1-11.	0.7	5
34	Effects of matrix permeability and fracture on production characteristics and residual oil distribution during flue gas flooding in low permeability/tight reservoirs. Journal of Petroleum Science and Engineering, 2020, 195, 107813.	4.2	33
35	Investigation of CO ₂ /N ₂ injection in tight oil reservoirs with confinement effect. Energy Science and Engineering, 2020, 8, 1194-1208.	4.0	18
36	Experimental study on the enhanced oil recovery by in situ foam formulation. Energy Science and Engineering, 2020, 8, 1092-1103.	4.0	7

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37	Ethanol enhanced anionic surfactant solubility in CO ₂ and CO ₂ foam stability: MD simulation and experimental investigations. <i>Fuel</i> , 2020, 267, 117162.	6.4	37
38	Investigation of EOR mechanism for flue gas assisted SAGD. <i>Journal of Petroleum Science and Engineering</i> , 2020, 193, 107420.	4.2	27
39	Investigation of the Heat Transfer Mechanism of CO ₂ -Assisted Steam Injection via Experimental and Simulation Evaluation. <i>Frontiers in Energy Research</i> , 2020, 8, .	2.3	3
40	Dynamic Filtration Behavior of Dry Supercritical CO ₂ Foam with Nanoparticles in Porous Media. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15014-15025.	3.7	17
41	Dynamic simulation and experimental verification of foam transport in porous media based on level set method. <i>Energy Science and Engineering</i> , 2019, 7, 1795-1807.	4.0	5
42	Impact of fluid property shift and capillarity on the recovery mechanisms of CO ₂ injection in tight oil reservoirs. , 2019, 9, 965-978.		3
43	Experimental investigation of nitrogen-assisted SAGD in heavy-oil reservoirs: A two-dimensional visual analysis. <i>Fuel</i> , 2019, 257, 116013.	6.4	41
44	Synthesis of Magnetic Graphene Oxide (MGO) and Auxiliary Microwaves To Enhance Oil Recovery. <i>Energy & Fuels</i> , 2019, 33, 9585-9595.	5.1	34
45	The influence of surfactants on the flow characterization of heavy oil. <i>Petroleum Science and Technology</i> , 2019, 37, 155-162.	1.5	2
46	Properties of CO ₂ Foam Stabilized by Hydrophilic Nanoparticles and Nonionic Surfactants. <i>Energy & Fuels</i> , 2019, 33, 5043-5054.	5.1	61
47	A visualization experimental study on gas penetration through interlayer to improve SAGD performance. <i>Journal of Petroleum Science and Engineering</i> , 2019, 177, 959-970.	4.2	23
48	Experimental study on nitrogen and nitrogen foam-assisted gravity drainage for enhancing oil recovery. <i>Journal of Petroleum Exploration and Production</i> , 2019, 9, 2625-2634.	2.4	2
49	Roles of Flue Gas in Promoting Steam Flow and Heat Transfer in Multithermal Fluid Flooding. <i>Mathematical Problems in Engineering</i> , 2019, 2019, 1-8.	1.1	1
50	Effect of fracture on production characteristics and oil distribution during CO ₂ huff-n-puff under tight and low-permeability conditions. <i>Fuel</i> , 2019, 246, 117-125.	6.4	55
51	A nonlinear interval number programming algorithm for CO ₂ pipeline transportation design under uncertainties. , 2019, 9, 261-275.		3
52	Investigation on in Situ Foam Technology for Enhanced Oil Recovery in Offshore Oilfield. <i>Energy & Fuels</i> , 2019, 33, 12308-12318.	5.1	14
53	Relationship between Blocking Performance and Foam Texture in Porous Media. <i>Geofluids</i> , 2019, 2019, 1-12.	0.7	84
54	Synergistic Mechanism of Particulate Matter (PM) from Coal Combustion and Saponin from Camellia Seed Pomace in Stabilizing CO ₂ Foam. <i>Energy & Fuels</i> , 2018, 32, 3733-3742.	5.1	18

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55	Enhancing Sodium Bis(2-ethylhexyl) Sulfosuccinate Injectivity for CO ₂ Foam Formation in Low-Permeability Cores: Dissolving in CO ₂ with Ethanol. Energy & Fuels, 2018, 32, 5846-5856.	5.1	31
56	Experimental study on dynamic filtration behavior of liquid CO ₂ in tight sandstone. Fuel, 2018, 226, 10-17.	6.4	18
57	Effect of CO ₂ on Heavy Oil Recovery and Physical Properties in Huff-n-Puff Processes Under Reservoir Conditions. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	35
58	Determination of diffusion coefficients of supercritical CO ₂ under tight oil reservoir conditions with pressure-decay method. Journal of CO ₂ Utilization, 2018, 24, 430-443.	6.8	72
59	The Impact of Ionic Liquid and Nanoparticles on Stabilizing Foam for Enhanced Oil Recovery. ChemistrySelect, 2018, 3, 12461-12468.	1.5	5
60	The effect of permeability on supercritical CO ₂ diffusion coefficient and determination of diffusive tortuosity of porous media under reservoir conditions. Journal of CO ₂ Utilization, 2018, 28, 1-14.	6.8	43
61	Effects of the Non-ionic Surfactant (C ₁₈ PO ₄) on the Interfacial Tension Behavior between CO ₂ and Crude Oil. Energy & Fuels, 2018, 32, 6708-6712.	5.1	32
62	The Effect of Oil Properties on the Supercritical CO ₂ Diffusion Coefficient under Tight Reservoir Conditions. Energies, 2018, 11, 1495.	3.1	28
63	Application and Mechanisms of Self-Generated Heat Foam for Enhanced Oil Recovery. Energy & Fuels, 2018, 32, 9093-9105.	5.1	25
64	A two-step co-evolutionary particle swarm optimization approach for CO ₂ pipeline design with multiple uncertainties. Carbon Management, 2018, 9, 333-346.	2.4	5
65	Properties of Carbon Dioxide Foam Stabilized by Hydrophilic Nanoparticles and Hexadecyltrimethylammonium Bromide. Energy & Fuels, 2017, 31, 1478-1488.	5.1	91
66	Establishment and application of a structure evolution model for aqueous foam based on fractal theory. RSC Advances, 2017, 7, 3650-3659.	3.6	11
67	Experimental study on the dynamic filtration control performance of N ₂ /liquid CO ₂ foam in porous media. Fuel, 2017, 202, 435-445.	6.4	30
68	Fractal characterization of dynamic structure of foam transport in porous media. Journal of Molecular Liquids, 2017, 241, 675-683.	4.9	16
69	Enhanced Oil Recovery of Low-Permeability Cores by SiO ₂ Nanofluid. Energy & Fuels, 2017, 31, 5612-5621.	5.1	79
70	Extrapolation of surface tensions of electrolyte and associating mixtures solutions. Chemical Engineering Science, 2017, 162, 10-20.	3.8	2
71	Investigation of Surface Properties for Electrolyte Solutions: Measurement and Prediction of Surface Tension for Aqueous Concentrated Electrolyte Solutions. Journal of Chemical & Engineering Data, 2017, 62, 3783-3792.	1.9	17
72	Research on Enhancing Heavy Oil Recovery Mechanism of Flue Gas Assisted Steam Flooding. , 2017, , .		9

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73	Wall slipping behavior of foam with nanoparticle-armored bubbles and its flow resistance factor in cracks. Scientific Reports, 2017, 7, 5063.	3.3	26
74	Flow behavior of N ₂ huff and puff process for enhanced oil recovery in tight oil reservoirs. Scientific Reports, 2017, 7, 15695.	3.3	23
75	Effect of flue gas and n -hexane on heavy oil properties in steam flooding process. Fuel, 2017, 187, 84-93.	6.4	64
76	Silica nanoparticles as a high-performance filtrate reducer for foam fluid in porous media. Journal of Industrial and Engineering Chemistry, 2017, 45, 171-181.	5.8	28
77	Flow Behavior and Displacement Mechanisms of Nanoparticle Stabilized Foam Flooding for Enhanced Heavy Oil Recovery. Energies, 2017, 10, 560.	3.1	29
78	New evaluation function for the oil recovery and carbon sequestration of CO ₂ -EOR project. International Journal of Computer Applications in Technology, 2016, 54, 14.	0.5	3
79	Effect of Temperature on the Gas/Oil Relative Permeability of Orinoco Belt Foamy Oil. SPE Journal, 2016, 21, 170-179.	3.1	16
80	Nanoparticles for Inhibition of Asphaltenes Deposition during CO ₂ Flooding. Industrial & Engineering Chemistry Research, 2016, 55, 6723-6733.	3.7	58
81	Nanoparticle- Stabilized Foam for Mobility Control in Enhanced Oil Recovery. Energy Technology, 2016, 4, 1084-1096.	3.8	28
82	Nanoparticle- Stabilized Foam for Effective Displacement in Porous Media and Enhanced Oil Recovery. Energy Technology, 2016, 4, 1053-1063.	3.8	14
83	CO ₂ huff and puff for heavy oil recovery after primary production. , 2016, 6, 288-301.		11
84	Experimental Study of the Stabilization of CO ₂ Foam by Sodium Dodecyl Sulfate and Hydrophobic Nanoparticles. Industrial & Engineering Chemistry Research, 2016, 55, 1243-1253.	3.7	103
85	Diffusion coefficients of supercritical CO ₂ in oil-saturated cores under low permeability reservoir conditions. Journal of CO ₂ Utilization, 2016, 14, 47-60.	6.8	81
86	Characterization of Produced and Residual Oils in the CO ₂ Flooding Process. Energy & Fuels, 2016, 30, 54-62.	5.1	42
87	Enhanced heavy oil recovery after solution gas drive by water flooding. Journal of Petroleum Science and Engineering, 2016, 137, 113-124.	4.2	34
88	CO ₂ foam properties and the stabilizing mechanism of sodium bis(2-ethylhexyl)sulfosuccinate and hydrophobic nanoparticle mixtures. Soft Matter, 2016, 12, 946-956.	2.7	78
89	Foam Fluid Flow Analysis in Helical Coiled Tubing Using CFD. Procedia Engineering, 2015, 126, 696-700.	1.2	2
90	An overview of the reservoir simulation. , 2015, , .		0

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91	Properties of multi-phase foam and its flow behavior in porous media. RSC Advances, 2015, 5, 67676-67689.	3.6	27
92	Behaviors of Foamy Oil Flow in Solution Gas Drive at Different Temperatures. Transport in Porous Media, 2015, 109, 25-42.	2.6	15
93	Aqueous foam stabilized by partially hydrophobic nanoparticles in the presence of surfactant. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2015, 471, 54-64.	4.7	169
94	Study of Nanoparticle-“Surfactant-Stabilized Foam as a Fracturing Fluid. Industrial & Engineering Chemistry Research, 2015, 54, 9468-9477.	3.7	136
95	Experimental study on the performance of foamy oil flow under different solution gas-“oil ratios. RSC Advances, 2015, 5, 66797-66806.	3.6	19
96	Surface Wettability of Oxygen Plasma Treated Porous Silicon. Journal of Nanomaterials, 2014, 2014, 1-6.	2.7	13
97	Experimental study and application of tannin foam for profile modification in cyclic steam stimulated well. Journal of Petroleum Science and Engineering, 2014, 118, 88-98.	4.2	34
98	Utilization of Surfactant-Stabilized Foam for Enhanced Oil Recovery by Adding Nanoparticles. Energy & Fuels, 2014, 28, 2384-2394.	5.1	302
99	Accurate Determination of the CO ₂ -“Brine Interfacial Tension Using Graphical Alternating Conditional Expectation. Energy & Fuels, 2014, 28, 624-635.	5.1	38
100	Performances of Different Recovery Methods for Orinoco Belt Heavy Oil after Solution Gas Drive. Energy & Fuels, 2013, 27, 3499-3507.	5.1	22
101	Aqueous Foams Stabilized with Particles and Surfactants. , 2012, , .		1
102	Experimental Study on Foamy Oil Flow in Porous Media with Orinoco Belt Heavy Oil. Energy & Fuels, 2012, 26, 6332-6342.	5.1	56
103	CO ₂ and viscosity breaker assisted steam huff and puff technology for horizontal wells in a super-heavy oil reservoir. Petroleum Exploration and Development, 2011, 38, 600-605.	7.0	62
104	Experimental study and application on profile control using high-temperature foam. Journal of Petroleum Science and Engineering, 2011, 78, 567-574.	4.2	44
105	Modeling of Sand Cleanout With Foam Fluid for Vertical Well. SPE Journal, 2010, 15, 805-811.	3.1	22
106	Modeling of lifting heavy oil assisted by enclosed thermal fluid circulation in hollow rod. Journal of Petroleum Science and Engineering, 2010, 75, 135-142.	4.2	3
107	Multi-combination exploiting technique of ultra-heavy oil reservoirs with deep and thin layers in Shengli Oilfield. Petroleum Exploration and Development, 2010, 37, 732-736.	7.0	26
108	Mathematical models for foam-diverted acidizing and their applications. Petroleum Science, 2008, 5, 145-152.	4.9	21