

Xiang Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

942
citations

567281

15
h-index

454955

30
g-index

38
all docs

38
docs citations

38
times ranked

530
citing authors

#	ARTICLE	IF	CITATIONS
1	A critical review of the CO ₂ huff 'n' puff process for enhanced heavy oil recovery. Fuel, 2018, 215, 813-824.	6.4	157
2	Performance evaluation of CO ₂ flooding process in tight oil reservoir via experimental and numerical simulation studies. Fuel, 2019, 236, 730-746.	6.4	106
3	Feasibility study of CO ₂ huff 'n' puff process to enhance heavy oil recovery via long core experiments. Applied Energy, 2019, 236, 526-539.	10.1	80
4	Foamy oil flow in heavy oil-solvent systems tested by pressure depletion in a sandpack. Fuel, 2016, 171, 210-223.	6.4	75
5	Evaluation of enhanced oil recovery potential using gas/water flooding in a tight oil reservoir. Fuel, 2020, 272, 117706.	6.4	63
6	Experimental study on foamy oil behavior using a heavy oil-methane system in the bulk phase. Journal of Petroleum Science and Engineering, 2017, 158, 309-321.	4.2	47
7	Improving Steam-Assisted Gravity Drainage performance in oil sands with a top water zone using polymer injection and the fishbone well pattern. Fuel, 2016, 184, 449-465.	6.4	39
8	CO ₂ flooding strategy to enhance heavy oil recovery. Petroleum, 2017, 3, 68-78.	2.8	38
9	Determining CO ₂ diffusion coefficient in heavy oil in bulk phase and in porous media using experimental and mathematical modeling methods. Fuel, 2020, 263, 116205.	6.4	34
10	CO ₂ huff-n-puff process to enhance heavy oil recovery and CO ₂ storage: An integration study. Energy, 2022, 239, 122003.	8.8	25
11	A comparison study between N-Solv method and cyclic hot solvent injection (CHSI) method. Journal of Petroleum Science and Engineering, 2019, 173, 258-268.	4.2	23
12	A Semi-Analytical Model for Predicting Horizontal Well Performances in Fractured Gas Reservoirs With Bottom-Water and Different Fracture Intensities. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	2.3	21
13	Nonlinear simulation of miscible displacements with concentration-dependent diffusion coefficient in homogeneous porous media. Chemical Engineering Science, 2017, 172, 528-544.	3.8	19
14	Experimental and mathematical modeling studies on foamy oil stability using a heavy oil-CO ₂ system under reservoir conditions. Fuel, 2020, 264, 116771.	6.4	19
15	Experimental study on foamy oil flow behavior of a heavy oil-N ₂ system under reservoir condition. Fuel, 2020, 265, 116949.	6.4	18
16	Investigation of concentration-dependent diffusion on frontal instabilities and mass transfer in homogeneous porous media. Canadian Journal of Chemical Engineering, 2018, 96, 323-338.	1.7	17
17	Inflow characteristics of horizontal wells in sulfur gas reservoirs: A comprehensive experimental investigation. Fuel, 2019, 238, 267-274.	6.4	14
18	Miscible displacements with concentration-dependent diffusion and velocity-induced dispersion in porous media. Journal of Petroleum Science and Engineering, 2017, 159, 344-359.	4.2	13

#	ARTICLE	IF	CITATIONS
19	Characterization of Foamy Oil and Gas/Oil Two-Phase Flow in Porous Media for a Heavy Oil/Methane System. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	11
20	Productivity Model for Water-Producing Gas Well in a Dipping Gas Reservoir With an Aquifer Considering Stress-Sensitive Effect. Journal of Energy Resources Technology, Transactions of the ASME, 2019, 141, .	2.3	11
21	Experimental study on the temperature effects of foamy oil flow in porous media. Fuel, 2020, 271, 117649.	6.4	11
22	Study of the Non-Equilibrium PVT Properties of Methane- and Propane-Heavy Oil Systems. , 2015, , .		10
23	Effects of water invasion law on gas wells in high temperature and high pressure gas reservoir with a large accumulation of water-soluble gas. Journal of Natural Gas Science and Engineering, 2019, 62, 68-78.	4.4	10
24	Numerical Simulation Study on Steam-Assisted Gravity Drainage Performance in a Heavy Oil Reservoir with a Bottom Water Zone. Energies, 2017, 10, 1999.	3.1	9
25	Mathematical model study on the damage of the liquid phase to productivity in the gas reservoir with a bottom water zone. Petroleum, 2018, 4, 209-214.	2.8	9
26	Determination of the Diffusion Coefficient of Supercritical CO ₂ in Low-Permeability Formation Cores. Energy & Fuels, 2020, 34, 2001-2014.	5.1	8
27	Prediction of Adsorption Isotherms of Multicomponent Gas Mixtures in Tight Porous Media by the Oil-Gas-Adsorption Three-Phase Vacancy Solution Model. Energy & Fuels, 2018, 32, 12166-12173.	5.1	7
28	Numerical simulation study on characterization of foamy oil behavior in heavy oil/propane system. Fuel, 2020, 262, 116559.	6.4	7
29	Control of viscous fingering and mixing in miscible displacements with time-dependent rates. AIChE Journal, 2019, 65, 360-371.	3.6	6
30	Feasibility Study of Using Polymer to Improve SAGD Performance in Oil Sands with Top Water. , 2014, , .		5
31	Comparison Study of Two Different Methods on the Localised Enkf on SAGD Processes. , 2016, , .		5
32	Inversing fracture parameters using early-time production data for fractured wells. Inverse Problems in Science and Engineering, 2020, 28, 674-694.	1.2	5
33	Effects of Concentration-Dependent Diffusion on Mass Transfer and Frontal Instability in Solvent-Based Processes. , 2017, , .		4
34	Experimental evaluation method for acid injection profiles of horizontal wells during a carbonate acidizing process. Journal of Petroleum Science and Engineering, 2020, 192, 107245.	4.2	4
35	A Semi-Analytical Model Based on the Volumetric Source Method to Predict Acid Injection Profiles of Horizontal Wells in Carbonate Reservoirs. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	4
36	Experimental study on the feasibility of nitrogen huff-n-puff in a heavy oil reservoir. Chemical Engineering Research and Design, 2022, 184, 513-523.	5.6	4

#	ARTICLE	IF	CITATIONS
37	Solvent temperature: An injection condition to bring multiple changes in the heavy oil exploitation process based on the cyclic solvent injection (CSI) recovery method. Energy Science and Engineering, 2020, 8, 661-676.	4.0	2
38	Numerical Simulation Investigation on Foamy Oil Behavior for a System of Heavy Oil-Mixture Solvent in Porous Media. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	2