

Mohammad Azizur Rahman

List of Publications by Year in descending order

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papers

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times ranked

127
citing authors

#	ARTICLE	IF	CITATIONS
1	Early gas kick detection in vertical wells via transient multiphase flow modelling: A review. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 80, 103391.	4.4	28
2	Measuring solid cuttings transport in Newtonian fluid across horizontal annulus using electrical resistance tomography (ERT). <i>Flow Measurement and Instrumentation</i> , 2021, 77, 101841.	2.0	27
3	Thermo-economic and environmental assessment of hybrid vapor compression-absorption refrigeration systems for district cooling. <i>Energy</i> , 2022, 243, 122991.	8.8	24
4	Dimensionless data-driven model for optimizing hole cleaning efficiency in daily drilling operations. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 96, 104315.	4.4	21
5	Understanding Gas Kick Behavior in Water and Oil-Based Drilling Fluids. , 2019, , .		18
6	Estimation of Local Equilibrium Model Parameters for Simulation of the Laboratory Foam-Enhanced Oil Recovery Process Using a Commercial Reservoir Simulator. <i>ACS Omega</i> , 2020, 5, 23437-23449.	3.5	16
7	Experimental investigation of multiphase flow behavior in drilling annuli using high speed visualization technique. <i>Frontiers in Energy</i> , 2020, 14, 635-643.	2.3	15
8	CFD Analysis of Pressure Losses and Deposition Velocities in Horizontal Annuli. <i>International Journal of Chemical Engineering</i> , 2019, 2019, 1-17.	2.4	13
9	Investigation of cuttings transport in a horizontal well with high-speed visualization and electrical resistance tomography technique. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 92, 103968.	4.4	13
10	Experimental and numerical study of cuttings transport in inclined drilling operations. <i>Journal of Petroleum Science and Engineering</i> , 2022, 208, 109394.	4.2	12
11	An experimental investigation of the foam enhanced oil recovery process for a dual porosity and heterogeneous carbonate reservoir under strongly oil-wet condition. <i>Fuel</i> , 2022, 313, 122684.	6.4	12
12	Flow Regime, Slug Frequency and Wavelet Analysis of Air/Newtonian and Air/non-Newtonian Two-Phase Flow. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3272.	2.5	11
13	Investigation of binary, ternary and quaternary mixtures across solution heat exchanger used in absorption refrigeration and process modifications to improve cycle performance. <i>Energy</i> , 2020, 198, 117254.	8.8	11
14	Kinetic Behavior of Quaternary Ammonium Hydroxides in Mixed Methane and Carbon Dioxide Hydrates. <i>Molecules</i> , 2021, 26, 275.	3.8	11
15	Application of the electric resistance tomographic technique to investigate its efficacy in cuttings transport in horizontal drilling scenarios. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104119.	4.4	10
16	Assessing the Alkyl Chain Effect of Ammonium Hydroxides Ionic Liquids on the Kinetics of Pure Methane and Carbon Dioxide Hydrates. <i>Energies</i> , 2020, 13, 3272.	3.1	9
17	Experimental Study of Cuttings Transport with Non-Newtonian Fluid in an Inclined Well Using Visualization and Electrical Resistance Tomography Techniques. <i>SPE Drilling and Completion</i> , 2021, 36, 745-762.	1.6	9
18	Investigation of cutting transport in horizontal/deviated annulus using visualization and pressure drop techniques for two-phase slurry flow. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 100, 104460.	4.4	9

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19	The Control of Apparent Wettability on the Efficiency of Surfactant Flooding in Tight Carbonate Rocks. Processes, 2019, 7, 684.	2.8	8
20	Numerical Study on the Impact of Spiral Tortuous Hole on Cuttings Removal in Horizontal Wells. SPE Drilling and Completion, 2022, 37, 77-92.	1.6	8
21	Review on Modeling of Vapor Compression Chillers: District Cooling Perspective. International Journal of Air-Conditioning and Refrigeration, 2020, 28, 2030003.	0.7	7
22	A Mechanistic Gas Kick Model to Simulate Gas in A Riser with Water and Synthetic-Based Drilling Fluid. , 2020, , .		7
23	Estimating of Non-Darcy Flow Coefficient in Artificial Porous Media. Energies, 2022, 15, 1197.	3.1	7
24	Migration of CO2 through Carbonate Cores: Effect of Salinity, Pressure, and Cyclic Brine-CO2 Injection. Journal of Environmental Engineering, ASCE, 2020, 146, .	1.4	6
25	Comparison of Crushed-Zone Skin Factor for Cased and Perforated Wells Calculated with and without including a Tip-Crushed Zone Effect. Geofluids, 2021, 2021, 1-13.	0.7	6
26	A new correlation for performance prediction of small and large capacity single-effect vapor absorption refrigeration systems. , 2022, 1, 100002.		6
27	3D numerical and experimental modelling of multiphase flow through an annular geometry applied for cuttings transport. International Journal of Multiphase Flow, 2022, 151, 104044.	3.4	6
28	Experimental and computational analysis of pressure response in a multiphase flow loop. AIP Conference Proceedings, 2016, , .	0.4	5
29	Quantifying the partial penetration skin factor for evaluating the completion efficiency of vertical oil wells. Journal of Petroleum Exploration and Production, 2021, 11, 3031-3043.	2.4	5
30	Effect of drill pipe orbital motion on non-Newtonian fluid flow in an eccentric wellbore: a study with computational fluid dynamics. Journal of Petroleum Exploration and Production, 2022, 12, 1383-1402.	2.4	5
31	Effects of salinity on solid particle settling velocity in non-Newtonian Herschel-Bulkley fluids. Journal of Petroleum Exploration and Production, 2021, 11, 3333-3347.	2.4	4
32	Comprehensive assessment and evaluation of correlations for gas-oil ratio, oil formation volume factor, gas viscosity, and gas density utilized in gas kick detection. Journal of Petroleum Science and Engineering, 2021, 207, 109135.	4.2	4
33	Scale-Up of Perforation Process from Laboratory Model to Bottom Hole Dimensions. Journal of Porous Media, 2008, 11, 19-34.	1.9	4
34	Horizontal Two-Phase Flow Regime Identification with Machine Learning Classification Models. , 2022, , .		4
35	Development of pressure gradient correlation for slurry flow using dimensional analysis. Journal of Natural Gas Science and Engineering, 2022, 104, 104660.	4.4	4
36	A New Evaluation of Skin Factor in Inclined Wells with Anisotropic Permeability. Energies, 2021, 14, 5585.	3.1	2

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37	An Experimental Development to Characterise the Flow Phenomena at the Near-Wellbore Region. , 2019, , .		2
38	A new assessment of perforation skin factor for vertical perforated wells in near-wellbore region. Journal of Petroleum Exploration and Production, 0, , 1.	2.4	2
39	Computational Fluid Dynamics Simulation of the Transient Behavior of Liquid Loading in Gas Wells. , 2020, , .		1