Mohammad Rahman

List of Publications by Year in descending order

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471061 552369 104 996 17 26 h-index g-index citations papers 104 104 104 659 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Experimental and numerical study of cuttings transport in inclined drilling operations. Journal of Petroleum Science and Engineering, 2022, 208, 109394.	2.1	12
2	An experimental investigation of the foam enhanced oil recovery process for a dual porosity and heterogeneous carbonate reservoir under strongly oil-wet condition. Fuel, 2022, 313, 122684.	3.4	12
3	Thermo-economic and environmental assessment of hybrid vapor compression-absorption refrigeration systems for district cooling. Energy, 2022, 243, 122991.	4.5	24
4	Estimating of Non-Darcy Flow Coefficient in Artificial Porous Media. Energies, 2022, 15, 1197.	1.6	7
5	Investigation of cutting transport in horizontal/deviated annulus using visualization and pressure drop techniques for two-phase slurry flow. Journal of Natural Gas Science and Engineering, 2022, 100, 104460.	2.1	9
6	Numerical Study on the Impact of Spiral Tortuous Hole on Cuttings Removal in Horizontal Wells. SPE Drilling and Completion, 2022, 37, 77-92.	0.9	8
7	Horizontal Two-Phase Flow Regime Identification with Machine Learning Classification Models. , 2022, , .		4
8	A new correlation for performance prediction of small and large capacity single-effect vapor absorption refrigeration systems. , 2022, 1 , 100002 .		6
9	3D numerical and experimental modelling of multiphase flow through an annular geometry applied for cuttings transport. International Journal of Multiphase Flow, 2022, 151, 104044.	1.6	6
10	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.	1.2	5
11	Development of pressure gradient correlation for slurry flow using dimensional analysis. Journal of Natural Gas Science and Engineering, 2022, 104, 104660.	2.1	4
12	Clinical Trials on Alternative Medicines for COVID-19. Studies in Health Technology and Informatics, 2022, , .	0.2	1
13	Study of Ostwald-de Waele fluid flow in an elliptical annulus using the slot model and the CFD approach. Journal of Dispersion Science and Technology, 2021, 42, 1395-1407.	1.3	1
14	Measuring solid cuttings transport in Newtonian fluid across horizontal annulus using electrical resistance tomography (ERT). Flow Measurement and Instrumentation, 2021, 77, 101841.	1.0	27
15	Systematic assessment of the dynamic behavior of ecofriendly refrigerants used in dual vapor compression chiller. Science and Technology for the Built Environment, 2021, 27, 917-935.	0.8	2
16	Experimental Study of Cuttings Transport with Non-Newtonian Fluid in an Inclined Well Using Visualization and Electrical Resistance Tomography Techniques. SPE Drilling and Completion, 2021, 36, 745-762.	0.9	9
17	Effects of salinity on solid particle settling velocity in non-Newtonian Herschel–Bulkley fluids. Journal of Petroleum Exploration and Production, 2021, 11, 3333-3347.	1.2	4
18	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.	1.2	5

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19	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.	0.3	6
20	Investigation of cuttings transport in a horizontal well with high-speed visualization and electrical resistance tomography technique. Journal of Natural Gas Science and Engineering, 2021, 92, 103968.	2.1	13
21	A New Evaluation of Skin Factor in Inclined Wells with Anisotropic Permeability. Energies, 2021, 14, 5585.	1.6	2
22	Application of the electric resistance tomographic technique to investigate its efficacy in cuttings transport in horizontal drilling scenarios. Journal of Natural Gas Science and Engineering, 2021, 95, 104119.	2.1	10
23	Modeling surge pressures during tripping operations in eccentric annuli. Journal of Natural Gas Science and Engineering, 2021, 96, 104233.	2.1	8
24	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.	2.1	4
25	Bubble dynamics in microchannel: An overview of the state-of-the-art. Meccanica, 2021, 56, 481-513.	1.2	4
26	Kinetic Behavior of Quaternary Ammonium Hydroxides in Mixed Methane and Carbon Dioxide Hydrates. Molecules, 2021, 26, 275.	1.7	11
27	Dimensionless data-driven model for optimizing hole cleaning efficiency in daily drilling operations. Journal of Natural Gas Science and Engineering, 2021, 96, 104315.	2.1	21
28	Experimental investigation of multiphase flow behavior in drilling annuli using high speed visualization technique. Frontiers in Energy, 2020, 14, 635-643.	1.2	15
29	Migration of CO2 through Carbonate Cores: Effect of Salinity, Pressure, and Cyclic Brine-CO2 Injection. Journal of Environmental Engineering, ASCE, 2020, 146, .	0.7	6
30	Progress on carbon dioxide capture, storage and utilisation. International Journal of Global Warming, 2020, 20, 124.	0.2	21
31	Chronic leak detection for single and multiphase flow: A critical review on onshore and offshore subsea and arctic conditions. Journal of Natural Gas Science and Engineering, 2020, 81, 103460.	2.1	37
32	Estimation of Local Equilibrium Model Parameters for Simulation of the Laboratory Foam-Enhanced Oil Recovery Process Using a Commercial Reservoir Simulator. ACS Omega, 2020, 5, 23437-23449.	1.6	16
33	The effect of orbital motion and eccentricity of drill pipe on pressure gradient in eccentric annulus flow with Newtonian and non-Newtonian fluids. Progress in Computational Fluid Dynamics, 2020, 20, 238.	0.1	0
34	Flow Regime, Slug Frequency and Wavelet Analysis of Air/Newtonian and Air/non-Newtonian Two-Phase Flow. Applied Sciences (Switzerland), 2020, 10, 3272.	1.3	11
35	Early gas kick detection in vertical wells via transient multiphase flow modelling: A review. Journal of Natural Gas Science and Engineering, 2020, 80, 103391.	2.1	28
36	Kick detection and remedial action in managed pressure drilling: a review. SN Applied Sciences, 2020, 2, 1.	1.5	16

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37	Hydrate-Induced Vibration in an Offshore Pipeline. SPE Journal, 2020, 25, 732-743.	1.7	8
38	Review on Modeling of Vapor Compression Chillers: District Cooling Perspective. International Journal of Air-Conditioning and Refrigeration, 2020, 28, 2030003.	0.8	7
39	Assessing the Alkyl Chain Effect of Ammonium Hydroxides Ionic Liquids on the Kinetics of Pure Methane and Carbon Dioxide Hydrates. Energies, 2020, 13, 3272.	1.6	9
40	Investigation of binary, ternary and quaternary mixtures across solution heat exchanger used in absorption refrigeration and process modifications to improve cycle performance. Energy, 2020, 198, 117254.	4.5	11
41	Reynolds-Averaged Simulation of the Fully Developed Turbulent Drag Reduction Flow in Concentric Annuli. Journal of Fluids Engineering, Transactions of the ASME, 2020, 142, .	0.8	2
42	The effect of orbital motion and eccentricity of drill pipe on pressure gradient in eccentric annulus flow with Newtonian and non-Newtonian fluids. Progress in Computational Fluid Dynamics, 2020, 20, 238.	0.1	1
43	A Mechanistic Gas Kick Model to Simulate Gas in A Riser with Water and Synthetic-Based Drilling Fluid. , 2020, , .		7
44	Terminal settling velocity of a single sphere in drilling fluid. Particulate Science and Technology, 2019, 37, 943-952.	1.1	18
45	A computational fluid dynamics investigation of the flow behavior near a wellbore using three-dimensional Navier–Stokes equations. Advances in Mechanical Engineering, 2019, 11, 168781401987325.	0.8	4
46	CFD Analysis of Pressure Losses and Deposition Velocities in Horizontal Annuli. International Journal of Chemical Engineering, 2019, 2019, 1-17.	1.4	13
47	Experimental Investigation of Volume Fraction in an Annulus Using Electrical Resistance Tomography. SPE Journal, 2019, 24, 1947-1956.	1.7	6
48	Understanding Gas Kick Behavior in Water and Oil-Based Drilling Fluids. , 2019, , .		18
49	Experimental Investigation of Multi-Phase Flow in an Annulus Using Electric Resistance Tomography. , 2019, , .		8
50	The Control of Apparent Wettability on the Efficiency of Surfactant Flooding in Tight Carbonate Rocks. Processes, 2019, 7, 684.	1.3	8
51	Dynamics of Surfactant Flooding in Tight Carbonate Rocks. , 2019, , .		2
52	Nonlinear model predictive control of a Hammerstein Weiner model based experimental managed pressure drilling setup. ISA Transactions, 2019, 88, 225-232.	3.1	25
53	Force measurement of a gas-assisted atomization using an impulse probe. International Journal of Multiphase Flow, 2019, 112, 258-268.	1.6	0
54	Validation of CFD model of multiphase flow through pipeline and annular geometries. Particulate Science and Technology, 2019, 37, 685-697.	1.1	18

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55	An Experimental Development to Characterise the Flow Phenomena at the Near-Wellbore Region. , 2019, , .		2
56	THE EFFECT OF MULTIPHASE FLOW BEHAVIOUR ON A HORIZONTAL ANNULUS BY INTEGRATING HIGH-SPEED IMAGING TECHNIQUE. , 2019, , .		0
57	CFD SIMULATION OF TWO PHASE ANNULAR FLOW IN NATURAL GAS PIPELINES. , 2019, , .		0
58	DRILLING CUTTINGS TRANSPORT IN HORIZONTAL WELLS WHILE AERATED DRILLING., 2019,,.		0
59	A study on friction loss and holdup ratio in the water lubricated pipeline transportation of heavy oil. Science and Technologies: Oil and Oil Products Pipeline Transportation, 2019, 9, 200-206.	0.2	1
60	Development of a Hybrid Heat Sink for Thermal Management of Photovoltaic Cells. , 2019, , .		0
61	Experimental and Numerical Investigation of Gas-Yield Power-Law Fluids in a Horizontal Pipe. , 2019, , .		0
62	Numerical Study on Gas-Yield Power-Law Fluid in T-Junction Minichannel. , 2019, , .		0
63	CFD Simulation of Two-Phase Vertical Annular Flow in Both Upward and Downward Direction in a Small Pipe. , $2019, $, .		0
64	Examination and Analysis of Four-Phase Four-Fluid Flow Techniques in Offshore Pipelines., 2019,,.		0
65	Review on Bubble Dynamics in Microchannel Heat Sink. , 2019, , .		0
66	Numerical investigation of two-phase fluid flow in a perforation tunnel. Journal of Natural Gas Science and Engineering, 2018, 55, 606-611.	2.1	18
67	A New Method of Porous Space Reconstruction Using Multipoint Histogram Technology. Journal of Energy Resources Technology, Transactions of the ASME, 2018, 140, .	1.4	4
68	CFD Numerical Simulation for Downhole Thruster Performance Evaluation. , 2018, , .		0
69	Two-Phase Flow Visualization for a Hybrid Heat Sink., 2018,,.		0
70	CFD and Experimental Studies of Yield Power-Law Fluids in Turbulent Pipe Flow., 2018,,.		3
71	Multiphase Flow in a Subsea Hilly Terrain. , 2018, , .		0
72	A comprehensive study on multiphase flow through annular pipe using CFD approach. AIP Conference Proceedings, 2018, , .	0.3	0

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73	Carbon Dioxide and Water Mixture in Pipeline Flow Systems. , 2018, , .		O
74	PRESSURE LOSS OF WATER–CO ₂ TWO-PHASE FLOW UNDER DIFFERENT OPERATING CONDITIONS. WIT Transactions on Engineering Sciences, 2018, , .	0.0	0
75	An overview of cooling of thermoelectric devices. Renewable and Sustainable Energy Reviews, 2017, 78, 15-22.	8.2	98
76	Numerical simulation of two-phase flow in porous media using a wavelet based phase-field method. Chemical Engineering Science, 2017, 173, 230-241.	1.9	8
77	CFD Simulation of Three Phase Gas-Liquid-Solid Flow in Horizontal Pipes. , 2017, , .		1
78	Investigation of Pressure Losses in Eccentric Inclined Annuli. , 2017, , .		1
79	CFD simulation of slurry flow in annular pipelines. , 2017, , .		3
80	EXPERIMENTAL INVESTIGATION OF AIR–WATER TWO-PHASE FLOW REGIMES IN A HORIZONTAL WAVY MICRO-CHANNEL. WIT Transactions on Engineering Sciences, 2017, , .	0.0	0
81	Characterization of Time-Averaged Turbulence Statistics for Shear Thinning Fluid in Horizontal Concentric Annulus Using RANS Based CFD Simulation. , 2016, , .		O
82	RANS Based Computational Fluid Dynamics Simulation of Fully Developed Turbulent Newtonian Flow in Concentric Annuli. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	11
83	Experimental and computational analysis of pressure response in a multiphase flow loop. AIP Conference Proceedings, 2016, , .	0.3	5
84	Computational Fluid Dynamics Modeling of Subsea Pipeline Leaks in Arctic Conditions. , 2016, , .		8
85	LNG pool fire simulation for domino effect analysis. Reliability Engineering and System Safety, 2015, 143, 19-29.	5.1	70
86	CFD Analysis of Hydrate Formation in Pipelines. Petroleum Science and Technology, 2015, 33, 571-578.	0.7	9
87	Probabilistic estimation of hydrate formation. Journal of Petroleum Science and Engineering, 2015, 135, 32-38.	2.1	19
88	Numerical Investigation of Two-phase Nozzle Flow. Procedia Engineering, 2014, 90, 346-350.	1.2	1
89	Phase behaviour of hydrate formations in oil and gas production in subsea conditions. , 2014, , .		2
90	BOG ventilation and combustion in re-liquefaction plants of LNG carriers. , 2014, , .		1

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91	An improved method for applying the lockhart–martinelli correlation to threeâ€phase gas–liquid–solid horizontal pipeline flows. Canadian Journal of Chemical Engineering, 2013, 91, 1372-1382.	0.9	18
92	Near Wall Turbulence Characteristics of a Drag Reducing Polymer Fluid Flow in Concentric Annulus Using CFD. , 2013, , .		1
93	A CFD Simulation of Near Wall Turbulent Flow in Concentric Annulus. , 2013, , .		0
94	Effects of the gas phase molecular weight and bubble size on effervescent atomization. International Journal of Multiphase Flow, 2012, 38, 35-52.	1.6	22
95	Effects of liquid viscosity and surface tension on atomization in two-phase, gas/liquid fluid coker nozzles. Fuel, 2010, 89, 1872-1882.	3.4	54
96	EXPERIMENTAL INVESTIGATION OF GEOMETRIC SCALING ON ATOMIZATION IN A TWO-PHASE GAS/LIQUID SPRAY. Multiphase Science and Technology, 2010, 22, 133-155.	0.2	4
97	Estimation of Average Void Fraction for Gas-Liquid, Two-Phase Flow in an Industrial Nozzle Assembly Using a Quick-Closing-Valve. , 2008, , .		0
98	Predicting the Two-Phase Flow Patterns Implementing the Froude Number Correlation. , 2008, , .		1
99	Correlations of the Droplet Size-Velocity of the Two-Phase, Air/Liquid Spray Using a Particle-Dynamic-Analyzer. , 2008, , .		5
100	Scale-Up of Perforation Process from Laboratory Model to Bottom Hole Dimensions. Journal of Porous Media, 2008, 11, 19-34.	1.0	4
101	Quantifying the skin factor for estimating the completion efficiency of perforation tunnels in petroleum wells. Journal of Petroleum Science and Engineering, 2007, 58, 99-110.	2.1	26
102	Investigation of a novel perforation technique in petroleum wellsâ€"perforation by drilling. Journal of the Franklin Institute, 2007, 344, 777-789.	1.9	23
103	A novel method for estimating the entropy generation rate in a human body. Thermal Science, 2007, 11 , 75-92.	0.5	31
104	A new assessment of perforation skin factor for vertical perforated wells in near-wellbore region. Journal of Petroleum Exploration and Production, 0 , 1 .	1,2	2