

Aliyu M Aliyu

List of Publications by Year in descending order

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47
papers

512
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687363

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48
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48
times ranked

329
citing authors

#	ARTICLE	IF	CITATIONS
1	Interfacial friction in upward annular gas-liquid two-phase flow in pipes. <i>Experimental Thermal and Fluid Science</i> , 2017, 84, 90-109.	2.7	48
2	Gas/liquid flow behaviours in a downward section of large diameter vertical serpentine pipes. <i>International Journal of Multiphase Flow</i> , 2016, 78, 25-43.	3.4	41
3	Slug length for high viscosity oil-gas flow in horizontal pipes: Experiments and prediction. <i>Journal of Petroleum Science and Engineering</i> , 2018, 165, 397-411.	4.2	33
4	Prediction of entrained droplet fraction in co-current annular gas-liquid flow in vertical pipes. <i>Experimental Thermal and Fluid Science</i> , 2017, 85, 287-304.	2.7	30
5	On slug frequency in concurrent high viscosity liquid and gas flow. <i>Journal of Petroleum Science and Engineering</i> , 2018, 163, 600-610.	4.2	25
6	Slug frequency in high viscosity oil-gas two-phase flow: Experiment and prediction. <i>Flow Measurement and Instrumentation</i> , 2017, 54, 109-123.	2.0	24
7	Interfacial shear in adiabatic downward gas/liquid co-current annular flow in pipes. <i>Experimental Thermal and Fluid Science</i> , 2016, 72, 75-87.	2.7	23
8	Upward gas-liquid two-phase flow after a U-bend in a large-diameter serpentine pipe. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 784-800.	4.8	22
9	Study of high viscous multiphase phase flow in a horizontal pipe. <i>Heat and Mass Transfer</i> , 2018, 54, 651-669.	2.1	22
10	Experimental Study on Sand Transport Characteristics in Horizontal and Inclined Two-Phase Solid-Liquid Pipe Flow. <i>Journal of Pipeline Systems Engineering and Practice</i> , 2020, 11, .	1.6	19
11	Local multiphase flow characteristics of a severe-service control valve. <i>Journal of Petroleum Science and Engineering</i> , 2020, 195, 107557.	4.2	19
12	Development of a dual optical fiber probe for the hydrodynamic investigation of a horizontal annular drive gas/liquid ejector. <i>Flow Measurement and Instrumentation</i> , 2017, 56, 45-55.	2.0	17
13	Effect of crossflow velocity on underwater bubble swarms. <i>International Journal of Multiphase Flow</i> , 2018, 105, 60-73.	3.4	14
14	Characteristics of bubble-induced liquid flows in a rectangular tank. <i>Experimental Thermal and Fluid Science</i> , 2018, 97, 21-35.	2.7	14
15	Estimating slug liquid holdup in high viscosity oil-gas two-phase flow. <i>Flow Measurement and Instrumentation</i> , 2019, 65, 22-32.	2.0	14
16	Enhancement of momentum transfer of bubble swarms using an ejector with water injection. <i>Energy</i> , 2018, 162, 892-909.	8.8	13
17	High viscous oil-water two-phase flow: experiments & numerical simulations. <i>Heat and Mass Transfer</i> , 2019, 55, 755-767.	2.1	12
18	Sand minimum transport conditions in gas-solid-liquid three-phase stratified flow in a horizontal pipe at low particle concentrations. <i>Chemical Engineering Research and Design</i> , 2019, 143, 114-126.	5.6	12

#	ARTICLE	IF	CITATIONS
19	An assessment of gas void fraction prediction models in highly viscous liquid and gas two-phase vertical flows. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 76, 103107.	4.4	10
20	Void fraction development in gas-liquid flow after a U-bend in a vertically upwards serpentine-configuration large-diameter pipe. <i>Heat and Mass Transfer</i> , 2018, 54, 209-226.	2.1	9
21	Slug Translational Velocity for Highly Viscous Oil and Gas Flows in Horizontal Pipes. <i>Fluids</i> , 2019, 4, 170.	1.7	9
22	A new three-dimensional CFD model for efficiency optimisation of fluid-to-air multi-fin heat exchanger. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100658.	2.7	9
23	Dispersion of virus-laden droplets in ventilated rooms: Effect of homemade facemasks. <i>Journal of Building Engineering</i> , 2021, 44, 102933.	3.4	9
24	An experimental study on the characteristics of ejector-generated bubble swarms. <i>Journal of Visualization</i> , 2018, 21, 711-728.	1.8	6
25	Numerical study on complex conductivity characteristics of hydrate-bearing porous media. <i>Journal of Natural Gas Science and Engineering</i> , 2021, 95, 104145.	4.4	6
26	Exergy Analysis and Evaluation of the Different Flowsheeting Configurations for CO ₂ Capture Plant Using 2-Amino-2-Methyl-1-Propanol (AMP). <i>Processes</i> , 2019, 7, 391.	2.8	5
27	Heat Transfer Enhancement by Perforated and Louvred Fin Heat Exchangers. <i>Energies</i> , 2022, 15, 400.	3.1	5
28	A model for rising bubbles interacting with crossflowing liquid. <i>International Journal of Multiphase Flow</i> , 2018, 108, 94-104.	3.4	4
29	Experimental study of horizontal two- and three-phase flow characteristics at low to medium liquid loading conditions. <i>Heat and Mass Transfer</i> , 2019, 55, 2809-2830.	2.1	4
30	Upward interfacial friction factor in gas and high-viscosity liquid flows in vertical pipes. <i>Chemical Engineering Communications</i> , 2020, 207, 1234-1263.	2.6	4
31	Characteristics of horizontal gas-liquid two-phase flow measurement in a medium-sized pipe using gamma densitometry. <i>Scientific African</i> , 2020, 10, e00550.	1.5	4
32	Particle-Transport Mechanism in Liquid/Liquid/Solid Multiphase Pipeline Flow of High-Viscosity Oil/Water/Sand. <i>SPE Journal</i> , 2021, , 1-16.	3.1	4
33	Optimisation of Artificial Lifts Using Prosper Nodal Analysis for BARBRA-1 Well in Niger Delta. <i>Nigerian Journal of Technological Development</i> , 2020, 17, 150-155.	0.6	4
34	Effect of Riser Base and Flowline Gas Injection on the Characteristics of Gas-Liquid Two-Phase Flow in a Vertical Riser System. , 2020, , .		3
35	Effect of Biodiesel Blends on the Transient Performance of Compression Ignition Engines. <i>Energies</i> , 2021, 14, 5416.	3.1	3
36	Investigating the Behaviour of Airâ€“Water Upward and Downward Flows: Are You Seeing What I Am Seeing?. <i>Energies</i> , 2021, 14, 7071.	3.1	3

#	ARTICLE	IF	CITATIONS
37	A Comparative Analysis of Upward and Downward Pressure Gradient Behaviour in Vertical Gas-Liquid Two-Phase Flows in a Large Diameter Pipe Facility. , 2020, , .		2
38	A Two-Fluid Model for High-Viscosity Upward Annular Flow in Vertical Pipes. Energies, 2021, 14, 3485.	3.1	2
39	Data Security Management Framework for Digital Twins of Industrial Pipeline. , 2021, , .		2
40	Experimental Study on the Effect of Undulating Pipeline on Sand Transport in Multiphase Flow. , 2019, , .		1
41	Minimum Sand Transport Conditions in Gas-Solid-Liquid Three-Phase Stratified Flow in Horizontal Pipelines. , 2019, , .		1
42	Air Quality Management in Railway Coaches. , 2021, , .		1
43	Evaluating the Effects of High Viscosity Liquid on Two Phase Flow Slug Translational Velocity using Gamma Radiation Methods. , 2019, , .		0
44	Global Optimisation of Gasoline Pool Blending Using Constraint Partitioning. British Journal of Applied Science & Technology, 2015, 10, 1-15.	0.2	0
45	Development of novel predictive equations for local flow asymmetry within control valves using a distribution parameter-based method under multiphase conditions. Journal of Petroleum Science and Engineering, 2022, 213, 110367.	4.2	0
46	Local flow analysis and management for digital twins of control valves. , 2021, , .		0
47	Management of fuel consumption and emissions of heavy goods trucks. , 2021, , .		0