

Rigoberto Morales

List of Publications by Citations

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102
papers

779
citations

16
h-index

20
g-index

127
ext. papers

941
ext. citations

3.4
avg, IF

4.55
L-index

#	Paper	IF	Citations
102	Numerical Analysis of the Fluid Flow in the First Stage of a Two-Stage Centrifugal Pump With a Vaned Diffuser. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2013 , 135,	2.1	39
101	Dual-modality wire-mesh sensor for the visualization of three-phase flows. <i>Measurement Science and Technology</i> , 2015 , 26, 105302	2	35
100	Analytical study of pressure losses and fluid viscosity effects on pump performance during monophasic flow inside an ESP stage. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 127, 245-258	4.4	26
99	Perspectives on Gas Hydrates Cold Flow Technology. <i>Energy & Fuels</i> , 2019 , 33, 1-15	4.1	26
98	Experimental study of the formation and deposition of gas hydrates in non-emulsifying oil and condensate systems. <i>Chemical Engineering Science</i> , 2016 , 155, 111-126	4.4	25
97	Capacitive measuring system for two-phase flow monitoring. Part 1: Hardware design and evaluation. <i>Flow Measurement and Instrumentation</i> , 2016 , 47, 90-99	2.2	25
96	A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: I. Phenomenological Model. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 14446-14461	3.9	21
95	Experimental measurements and modelling of carbon dioxide hydrate phase equilibrium with and without ethanol. <i>Fluid Phase Equilibria</i> , 2016 , 413, 176-183	2.5	20
94	Rock-Flow Cell: An Innovative Benchtop Testing Tool for Flow Assurance Studies. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 8544-8552	3.9	20
93	Numerical and Experimental Analysis of Turbulent Flow in Corrugated Pipes. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2010 , 132,	2.1	20
92	Characterization of slug initiation for horizontal air-water two-phase flow. <i>Experimental Thermal and Fluid Science</i> , 2017 , 87, 80-92	3	19
91	Two-Phase Slug Flow Characterization Using Artificial Neural Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 494-501	5.2	19
90	Investigation of the Motion of Bubbles in a Centrifugal Pump Impeller. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2019 , 141,	2.1	19
89	Turbulent Flow in D-Type Corrugated Pipes: Flow Pattern and Friction Factor. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2012 , 134,	2.1	19
88	Visualization of two-phase gas-liquid flow in a radial centrifugal pump with a vaned diffuser. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 187, 106848	4.4	19
87	Modeling the effects of hydrate wall deposition on slug flow hydrodynamics and heat transfer. <i>Applied Thermal Engineering</i> , 2017 , 114, 245-254	5.8	18
86	A three-phase solid-liquid-gas slug flow mechanistic model coupling hydrate dispersion formation with heat and mass transfer. <i>Chemical Engineering Science</i> , 2018 , 178, 222-237	4.4	13

85	A bench-scale flow loop study on hydrate deposition under multiphase flow conditions. <i>Fuel</i> , 2020 , 262, 116558	7.1	13
84	Single- and two-phase flow characterization using optical fiber bragg gratings. <i>Sensors</i> , 2015 , 15, 6549-59.8	3.9	11
83	Typical bubble shape estimation in two-phase flow using inverse problem techniques. <i>Flow Measurement and Instrumentation</i> , 2014 , 40, 64-73	2.2	11
82	Large-eddy simulation of the combined convection around a heated rotating cylinder. <i>International Journal of Heat and Mass Transfer</i> , 1999 , 42, 941-949	4.9	11
81	A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: II. Growth Kinetic Model. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2123-2144	3.9	11
80	Multiple Wire-Mesh Sensors Applied to the Characterization of Two-Phase Flow inside a Cyclonic Flow Distribution System. <i>Sensors</i> , 2019 , 19,	3.8	10
79	Gas Hydrate Sloughing as Observed and Quantified from Multiphase Flow Conditions. <i>Energy & Fuels</i> , 2018 , 32, 3399-3405	4.1	10
78	Capacitive measuring system for two-phase flow monitoring. Part 2: Simulation-based calibration. <i>Flow Measurement and Instrumentation</i> , 2016 , 50, 102-111	2.2	10
77	Capacitive Multielectrode Direct-Imaging Sensor for the Visualization of Two-Phase Flows. <i>IEEE Sensors Journal</i> , 2017 , 17, 8047-8058	4	10
76	Numerical investigation of the effect of viscosity in a multistage electric submersible pump. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2017 , 11, 258-272	4.5	10
75	Experimental analysis of downward liquid-gas slug flow in slightly inclined pipes. <i>Experimental Thermal and Fluid Science</i> , 2019 , 103, 222-233	3	10
74	Numerical simulation of the heat transfer in fully developed horizontal two-phase slug flows using a slug tracking method. <i>International Journal of Thermal Sciences</i> , 2015 , 88, 258-266	4.1	9
73	Multiphase flash calculations for gas hydrates systems. <i>Fluid Phase Equilibria</i> , 2018 , 475, 45-63	2.5	9
72	Phase Behavior of Carbon Dioxide Hydrates: A Comparison of Inhibition Between Sodium Chloride and Ethanol. <i>Journal of Chemical & Engineering Data</i> , 2017 , 62, 3445-3451	2.8	9
71	Experimental analysis of horizontal liquid-gas slug flow pressure drop in d-type corrugated pipes. <i>Experimental Thermal and Fluid Science</i> , 2017 , 81, 234-243	3	9
70	Single and Multiphase Flow Characterization by Means of an Optical Fiber Bragg Grating Grid. <i>Journal of Lightwave Technology</i> , 2015 , 33, 1857-1862	4	9
69	. <i>IEEE Access</i> , 2020 , 8, 125163-125178	3.5	9
68	Gas-Liquid Flow Rate Measurement Using a Twin-Plane Capacitive Sensor and a Venturi Meter. <i>IEEE Access</i> , 2019 , 7, 135933-135941	3.5	8

67	Statistical features of the flow evolution in horizontal liquid-gas slug flow. <i>Experimental Thermal and Fluid Science</i> , 2020 , 119, 110203	3	8
66	Modeling the scooping phenomenon for the heat transfer in liquid-gas horizontal slug flows. <i>Applied Thermal Engineering</i> , 2016 , 98, 862-871	5.8	8
65	An Examination of the Prediction of Hydrate Formation Conditions in the Presence of Thermodynamic Inhibitors. <i>Brazilian Journal of Chemical Engineering</i> , 2018 , 35, 265-274	1.7	8
64	Measurements of Hydrate Formation Behavior in Shut-In and Restart Conditions. <i>Energy & Fuels</i> , 2019 , 33, 9457-9465	4.1	7
63	Numerical simulation of gas-liquid flows in a centrifugal rotor. <i>Chemical Engineering Science</i> , 2020 , 221, 115692	4.4	7
62	Experimental and Numerical Development of a Two-Phase Venturi Flow Meter. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2004 , 126, 457-467	2.1	7
61	Sensing Platform for Two-Phase Flow Studies. <i>IEEE Access</i> , 2019 , 7, 5374-5382	3.5	6
60	Measurements of horizontal three-phase solid-liquid-gas slug flow: Influence of hydrate-like particles on hydrodynamics. <i>AIChE Journal</i> , 2018 , 64, 2864-2880	3.6	6
59	Three-Dimensional Bubble Shape Estimation in Two-Phase Gas-Liquid Slug Flow. <i>IEEE Sensors Journal</i> , 2017 , 1-1	4	6
58	Air Flow Detection in Crude Oil by Infrared Light. <i>Sensors</i> , 2017 , 17,	3.8	6
57	Wire-Mesh Sensor Super-Resolution Based on Statistical Reconstruction. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	6
56	Broadband Ultrasound Attenuation Technique Applied to Two Phase Flow Pattern Recognition. <i>Journal of Control, Automation and Electrical Systems</i> , 2014 , 25, 547-556	1.5	5
55	Advanced image processing of wire-mesh sensor data for two-phase flow investigation. <i>IEEE Latin America Transactions</i> , 2015 , 13, 2269-2277	0.7	5
54	Phase Equilibrium of Carbon Dioxide Hydrates Inhibited with MEG and NaCl above the Upper Quadruple Point. <i>Journal of Chemical & Engineering Data</i> , 2020 , 65, 280-286	2.8	5
53	Experimental characterization of hydrate formation in non-emulsifying systems upon shut-in and restart conditions. <i>Fuel</i> , 2022 , 307, 121690	7.1	5
52	Multichannel Capacitive Imaging of Gas Vortex in Swirling Two-Phase Flows Using Parametric Reconstruction. <i>IEEE Access</i> , 2020 , 8, 69557-69565	3.5	4
51	A new method for ultrasound detection of interfacial position in gas-liquid two-phase flow. <i>Sensors</i> , 2014 , 14, 9093-116	3.8	4
50	Dual-modality impedance wire-mesh sensor for investigation of multiphase flows 2014 ,		4

49	Development of NIR optical tomography system for the investigation of two-phase flows 2014 ,		4
48	Modeling fully developed laminar flow in a helical duct with rectangular cross section and finite pitch. <i>Applied Mathematical Modelling</i> , 2012 , 36, 5059-5067	4.5	4
47	Evaluation of stability and size distribution of sunflower oil-coated micro bubbles for localized drug delivery. <i>BioMedical Engineering OnLine</i> , 2012 , 11, 71	4.1	4
46	Numerical Study of the Influence of Viscosity on the Performance of an Electrical Submersible Pump 2013 ,		4
45	Modeling of free surface flow in a helical channel with finite pitch. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2007 , 29, 345-353	2	4
44	Pressure Drop of Horizontal Air/Water Slug Flow in Different Configurations of Corrugated Pipes. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2020 , 142,	2.1	4
43	A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: III. Agglomeration Model. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 15357-15377	3.9	4
42	Micropipette-Based Microfluidic Device for Monodisperse Microbubbles Generation. <i>Micromachines</i> , 2018 , 9,	3.3	4
41	Multiphase flow parameter estimation based on laser scattering. <i>Measurement Science and Technology</i> , 2015 , 26, 075205	2	3
40	Optical Fiber Transducer for Monitoring Single-Phase and Two-Phase Flows in Pipes. <i>IEEE Sensors Journal</i> , 2020 , 20, 5943-5952	4	3
39	An experimental analysis on the influence of flow direction changes on the transitions in gas-liquid, slug-to-stratified downward flows. <i>International Journal of Multiphase Flow</i> , 2019 , 119, 155-165	3.6	3
38	Bubble shape estimation in gas-liquid slug flow using wire-mesh sensor and advanced data processing 2014 ,		3
37	CFD Investigation of the Effect of Viscosity on a Three-Stage Electric Submersible Pump 2014 ,		3
36	A Simplified Model with a Hybrid Analytical-Numerical Solution for Predicting the Unsteady Conjugate Heat Transfer Process in Pipelines. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , 2011 , 60, 18-33	1.3	3
35	Wire-mesh sensor, ultrasound and high-speed videometry applied for the characterization of horizontal gas-liquid slug flow 2012 ,		3
34	Dynamics of Hydrate Behavior in Shut-In and Restart Condition in Two and Three Phase System 2020 ,		3
33	A new model to predict the head degradation of centrifugal pumps handling highly viscous flows. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 187, 106737	4.4	3
32	Characterization of the liquid film flow in a centrifugal separator. <i>AIChE Journal</i> , 2016 , 62, 2213-2226	3.6	3

31	Heat transfer modeling of non-boiling gas-liquid slug flow using a slug tracking approach. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 165, 120664	4.9	3
30	Electrical and Optical Probe for Two-Phase Flow Monitoring. <i>IEEE Sensors Journal</i> , 2019 , 19, 8706-8713	4	2
29	Simple measuring system for impedance spectroscopy analysis of fluids 2016 ,		2
28	Loss of Methanol and Monoethylene Glycol in VLE and LLE: Prediction of Hydrate Inhibitor Partition. <i>Journal of Chemical & Engineering Data</i> , 2019 , 64, 3889-3903	2.8	2
27	A Two-Fluid Model for Slug Flow Initiation Based on a Lagrangian Scheme 2014 ,		2
26	Two-phase flow rate measurement using a capacitive sensor and a Venturi meter 2017 ,		2
25	An Experimental Characterization of Horizontal Gas-Liquid Slug Flow 2015 ,		2
24	Hydrate Formation in Condensate and Mineral Oil Systems 2015 ,		2
23	Images Analysis of Horizontal Two-Phase Slug Flows 2011 ,		2
22	GPU-accelerated Simulator for Optical Tomography applied to Two-Phase Flows 2019 ,		2
21	Numerical assessment of performance characteristics and two-phase flow dynamics of a centrifugal rotor operating under gas entrainment condition. <i>Experimental and Computational Multiphase Flow</i> ,1	4.2	2
20	Numerical Simulation of Two-Phase Slug Flow From Horizontal to Downward Inclined Pipe Using a Hybrid Code Based on Slug Tracking and Two-Fluid Methodologies 2017 ,		1
19	Optical imaging of air and water bubbles flowing through oil 2015 ,		1
18	Sensing Hydrates in Pipes by a Combined Electrical and Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , 2020 , 20, 5012-5018	4	1
17	Numerical Study of the Fluid Flow in a Cylindrical Hydrocyclone Separator 2014 ,		1
16	ANN-based image reconstruction for optical tomography applied to gas-liquid flow monitoring 2017 ,		1
15	Performance Analysis of the Slug Tracking Modeling for Intermittent Flows in Horizontal Pipes With Long Lengths 2017 ,		1
14	Two-phase flow measurement based on oblique laser scattering 2015 ,		1

13	Microfluidics Device Manufacturing Using the Technique of 3D Printing 2014 ,		1
12	Multiphase flow characterization using optical fiber Bragg gratings 2012 ,		1
11	Numerical Simulation of the Flow in a Centrifugal Pump With a Vaned Diffuser 2011 ,		1
10	Numerical Study of the Free Surface Flow in a Centrifugal Gas-Liquid Separator 2012 ,		1
9	Evaluation of an Extended Autocorrelation Phase Estimator for Ultrasonic Velocity Profiles Using Nondestructive Testing Systems. <i>Sensors</i> , 2016 , 16,	3.8	1
8	Kinematics of droplets and bubbles flowing in a liquid stream. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 202, 108550	4.4	1
7	Defining a Slurry Phase Map for Gas Hydrate Management in Multiphase Flow Systems. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 14004-14012	3.9	1
6	Mapping Wall Deposition Trends of Gas Hydrates: I. Gas-Water-Hydrate Systems. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 2333-2345	3.9	0
5	The dynamics of compound drops at high Reynolds numbers: Drag, shape, and trajectory. <i>International Journal of Multiphase Flow</i> , 2021 , 142, 103699	3.6	0
4	Numerical and experimental analysis of vertically ascending swirling liquid film flow. <i>Journal of Petroleum Science and Engineering</i> , 2021 , 206, 109030	4.4	0
3	Algebraic modeling of the liquid film dynamics in a centrifugal separator. <i>AIChE Journal</i> , 2017 , 63, 4147-4160		1
2	Bubble Identification Based on High Speed Videometry Data: Algorithm and Validation. <i>Lecture Notes in Computer Science</i> , 2012 , 870-876	0.9	
1	Experimental Analysis of Three-Phase Solid-Liquid-Gas Slug Flow with Hydrate-Like Particles. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 267-273	0.4	