

# Rigoberto Morales

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Mapping Wall Deposition Trends of Gas Hydrates: I. Gas-Water-Hydrate Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2022</b> , 61, 2333-2345	3.9	0
101	Experimental characterization of hydrate formation in non-emulsifying systems upon shut-in and restart conditions. <i>Fuel</i> , <b>2022</b> , 307, 121690	7.1	5
100	Experimental Analysis of Three-Phase Solid-Liquid-Gas Slug Flow with Hydrate-Like Particles. <i>Lecture Notes in Mechanical Engineering</i> , <b>2022</b> , 267-273	0.4	
99	Heat transfer modeling of non-boiling gas-liquid slug flow using a slug tracking approach. <i>International Journal of Heat and Mass Transfer</i> , <b>2021</b> , 165, 120664	4.9	3
98	Wire-Mesh Sensor Super-Resolution Based on Statistical Reconstruction. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	6
97	Kinematics of droplets and bubbles flowing in a liquid stream. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 202, 108550	4.4	1
96	The dynamics of compound drops at high Reynolds numbers: Drag, shape, and trajectory. <i>International Journal of Multiphase Flow</i> , <b>2021</b> , 142, 103699	3.6	0
95	Defining a Slurry Phase Map for Gas Hydrate Management in Multiphase Flow Systems. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2021</b> , 60, 14004-14012	3.9	1
94	Numerical and experimental analysis of vertically ascending swirling liquid film flow. <i>Journal of Petroleum Science and Engineering</i> , <b>2021</b> , 206, 109030	4.4	0
93	Multichannel Capacitive Imaging of Gas Vortex in Swirling Two-Phase Flows Using Parametric Reconstruction. <i>IEEE Access</i> , <b>2020</b> , 8, 69557-69565	3.5	4
92	Statistical features of the flow evolution in horizontal liquid-gas slug flow. <i>Experimental Thermal and Fluid Science</i> , <b>2020</b> , 119, 110203	3	8
91	Optical Fiber Transducer for Monitoring Single-Phase and Two-Phase Flows in Pipes. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 5943-5952	4	3
90	Sensing Hydrates in Pipes by a Combined Electrical and Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , <b>2020</b> , 20, 5012-5018	4	1
89	Numerical simulation of gas-liquid flows in a centrifugal rotor. <i>Chemical Engineering Science</i> , <b>2020</b> , 221, 115692	4.4	7
88	Pressure Drop of Horizontal Air/Water Slug Flow in Different Configurations of Corrugated Pipes. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2020</b> , 142,	2.1	4
87	Dynamics of Hydrate Behavior in Shut-In and Restart Condition in Two and Three Phase System <b>2020</b> ,		3
86	A bench-scale flow loop study on hydrate deposition under multiphase flow conditions. <i>Fuel</i> , <b>2020</b> , 262, 116558	7.1	13

85	Phase Equilibrium of Carbon Dioxide Hydrates Inhibited with MEG and NaCl above the Upper Quadruple Point. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2020</b> , 65, 280-286	2.8	5
84	A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: II. Growth Kinetic Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 2123-2144	3.9	11
83	Visualization of two-phase gas-liquid flow in a radial centrifugal pump with a vaned diffuser. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 187, 106848	4.4	19
82	A new model to predict the head degradation of centrifugal pumps handling highly viscous flows. <i>Journal of Petroleum Science and Engineering</i> , <b>2020</b> , 187, 106737	4.4	3
81	. <i>IEEE Access</i> , <b>2020</b> , 8, 125163-125178	3.5	9
80	A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: III. Agglomeration Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 15357-15377	3.9	4
79	Gas-Liquid Flow Rate Measurement Using a Twin-Plane Capacitive Sensor and a Venturi Meter. <i>IEEE Access</i> , <b>2019</b> , 7, 135933-135941	3.5	8
78	Measurements of Hydrate Formation Behavior in Shut-In and Restart Conditions. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 9457-9465	4.1	7
77	Sensing Platform for Two-Phase Flow Studies. <i>IEEE Access</i> , <b>2019</b> , 7, 5374-5382	3.5	6
76	Multiple Wire-Mesh Sensors Applied to the Characterization of Two-Phase Flow inside a Cyclonic Flow Distribution System. <i>Sensors</i> , <b>2019</b> , 19,	3.8	10
75	Electrical and Optical Probe for Two-Phase Flow Monitoring. <i>IEEE Sensors Journal</i> , <b>2019</b> , 19, 8706-8713	4	2
74	Rock-Flow Cell: An Innovative Benchtop Testing Tool for Flow Assurance Studies. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 8544-8552	3.9	20
73	Investigation of the Motion of Bubbles in a Centrifugal Pump Impeller. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2019</b> , 141,	2.1	19
72	Loss of Methanol and Monoethylene Glycol in VLE and LLE: Prediction of Hydrate Inhibitor Partition. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2019</b> , 64, 3889-3903	2.8	2
71	A Multiscale Approach for Gas Hydrates Considering Structure, Agglomeration, and Transportability under Multiphase Flow Conditions: I. Phenomenological Model. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 14446-14461	3.9	21
70	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> , <b>2019</b> , 119, 155-165	3.6	3
69	GPU-accelerated Simulator for Optical Tomography applied to Two-Phase Flows <b>2019</b> ,		2
68	Experimental analysis of downward liquid-gas slug flow in slightly inclined pipes. <i>Experimental Thermal and Fluid Science</i> , <b>2019</b> , 103, 222-233	3	10

67	Perspectives on Gas Hydrates Cold Flow Technology. <i>Energy &amp; Fuels</i> , <b>2019</b> , 33, 1-15	4.1	26
66	Measurements of horizontal three-phase solid-liquid-gas slug flow: Influence of hydrate-like particles on hydrodynamics. <i>AIChE Journal</i> , <b>2018</b> , 64, 2864-2880	3.6	6
65	Gas Hydrate Sloughing as Observed and Quantified from Multiphase Flow Conditions. <i>Energy &amp; Fuels</i> , <b>2018</b> , 32, 3399-3405	4.1	10
64	A three-phase solid-liquid-gas slug flow mechanistic model coupling hydrate dispersion formation with heat and mass transfer. <i>Chemical Engineering Science</i> , <b>2018</b> , 178, 222-237	4.4	13
63	Multiphase flash calculations for gas hydrates systems. <i>Fluid Phase Equilibria</i> , <b>2018</b> , 475, 45-63	2.5	9
62	An Examination of the Prediction of Hydrate Formation Conditions in the Presence of Thermodynamic Inhibitors. <i>Brazilian Journal of Chemical Engineering</i> , <b>2018</b> , 35, 265-274	1.7	8
61	Micropipette-Based Microfluidic Device for Monodisperse Microbubbles Generation. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	4
60	Characterization of slug initiation for horizontal air-water two-phase flow. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 87, 80-92	3	19
59	Modeling the effects of hydrate wall deposition on slug flow hydrodynamics and heat transfer. <i>Applied Thermal Engineering</i> , <b>2017</b> , 114, 245-254	5.8	18
58	Algebraic modeling of the liquid film dynamics in a centrifugal separator. <i>AIChE Journal</i> , <b>2017</b> , 63, 4147-4160	3.6	160
57	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 <b>2017</b> ,		1
56	Phase Behavior of Carbon Dioxide Hydrates: A Comparison of Inhibition Between Sodium Chloride and Ethanol. <i>Journal of Chemical &amp; Engineering Data</i> , <b>2017</b> , 62, 3445-3451	2.8	9
55	Capacitive Multielectrode Direct-Imaging Sensor for the Visualization of Two-Phase Flows. <i>IEEE Sensors Journal</i> , <b>2017</b> , 17, 8047-8058	4	10
54	Numerical investigation of the effect of viscosity in a multistage electric submersible pump. <i>Engineering Applications of Computational Fluid Mechanics</i> , <b>2017</b> , 11, 258-272	4.5	10
53	Experimental analysis of horizontal liquid-gas slug flow pressure drop in d-type corrugated pipes. <i>Experimental Thermal and Fluid Science</i> , <b>2017</b> , 81, 234-243	3	9
52	ANN-based image reconstruction for optical tomography applied to gas-liquid flow monitoring <b>2017</b> ,		1
51	Performance Analysis of the Slug Tracking Modeling for Intermittent Flows in Horizontal Pipes With Long Lengths <b>2017</b> ,		1
50	Three-Dimensional Bubble Shape Estimation in Two-Phase Gas-Liquid Slug Flow. <i>IEEE Sensors Journal</i> , <b>2017</b> , 1-1	4	6

49	Two-phase flow rate measurement using a capacitive sensor and a Venturi meter <b>2017</b> ,		2
48	Air Flow Detection in Crude Oil by Infrared Light. <i>Sensors</i> , <b>2017</b> , 17,	3.8	6
47	Experimental measurements and modelling of carbon dioxide hydrate phase equilibrium with and without ethanol. <i>Fluid Phase Equilibria</i> , <b>2016</b> , 413, 176-183	2.5	20
46	Experimental study of the formation and deposition of gas hydrates in non-emulsifying oil and condensate systems. <i>Chemical Engineering Science</i> , <b>2016</b> , 155, 111-126	4.4	25
45	Simple measuring system for impedance spectroscopy analysis of fluids <b>2016</b> ,		2
44	Capacitive measuring system for two-phase flow monitoring. Part 2: Simulation-based calibration. <i>Flow Measurement and Instrumentation</i> , <b>2016</b> , 50, 102-111	2.2	10
43	Modeling the scooping phenomenon for the heat transfer in liquid-gas horizontal slug flows. <i>Applied Thermal Engineering</i> , <b>2016</b> , 98, 862-871	5.8	8
42	Capacitive measuring system for two-phase flow monitoring. Part 1: Hardware design and evaluation. <i>Flow Measurement and Instrumentation</i> , <b>2016</b> , 47, 90-99	2.2	25
41	Two-Phase Slug Flow Characterization Using Artificial Neural Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2016</b> , 65, 494-501	5.2	19
40	Evaluation of an Extended Autocorrelation Phase Estimator for Ultrasonic Velocity Profiles Using Nondestructive Testing Systems. <i>Sensors</i> , <b>2016</b> , 16,	3.8	1
39	Characterization of the liquid film flow in a centrifugal separator. <i>AIChE Journal</i> , <b>2016</b> , 62, 2213-2226	3.6	3
38	Single- and two-phase flow characterization using optical fiber bragg gratings. <i>Sensors</i> , <b>2015</b> , 15, 6549-6558	3.8	11
37	Multiphase flow parameter estimation based on laser scattering. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 075205	2	3
36	Optical imaging of air and water bubbles flowing through oil <b>2015</b> ,		1
35	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> , <b>2015</b> , 88, 258-266	4.1	9
34	An Experimental Characterization of Horizontal Gas-Liquid Slug Flow <b>2015</b> ,		2
33	Dual-modality wire-mesh sensor for the visualization of three-phase flows. <i>Measurement Science and Technology</i> , <b>2015</b> , 26, 105302	2	35
32	Hydrate Formation in Condensate and Mineral Oil Systems <b>2015</b> ,		2

31	Advanced image processing of wire-mesh sensor data for two-phase flow investigation. <i>IEEE Latin America Transactions</i> , <b>2015</b> , 13, 2269-2277	0.7	5
30	Two-phase flow measurement based on oblique laser scattering <b>2015</b> ,		1
29	Single and Multiphase Flow Characterization by Means of an Optical Fiber Bragg Grating Grid. <i>Journal of Lightwave Technology</i> , <b>2015</b> , 33, 1857-1862	4	9
28	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> , <b>2015</b> , 127, 245-258	4.4	26
27	Broadband Ultrasound Attenuation Technique Applied to Two Phase Flow Pattern Recognition. <i>Journal of Control, Automation and Electrical Systems</i> , <b>2014</b> , 25, 547-556	1.5	5
26	Typical bubble shape estimation in two-phase flow using inverse problem techniques. <i>Flow Measurement and Instrumentation</i> , <b>2014</b> , 40, 64-73	2.2	11
25	Numerical Study of the Fluid Flow in a Cylindrical Hydrocyclone Separator <b>2014</b> ,		1
24	A Two-Fluid Model for Slug Flow Initiation Based on a Lagrangian Scheme <b>2014</b> ,		2
23	Bubble shape estimation in gas-liquid slug flow using wire-mesh sensor and advanced data processing <b>2014</b> ,		3
22	A new method for ultrasound detection of interfacial position in gas-liquid two-phase flow. <i>Sensors</i> , <b>2014</b> , 14, 9093-116	3.8	4
21	CFD Investigation of the Effect of Viscosity on a Three-Stage Electric Submersible Pump <b>2014</b> ,		3
20	Microfluidics Device Manufacturing Using the Technique of 3D Printing <b>2014</b> ,		1
19	Dual-modality impedance wire-mesh sensor for investigation of multiphase flows <b>2014</b> ,		4
18	Development of NIR optical tomography system for the investigation of two-phase flows <b>2014</b> ,		4
17	Numerical Study of the Influence of Viscosity on the Performance of an Electrical Submersible Pump <b>2013</b> ,		4
16	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> , <b>2013</b> , 135,	2.1	39
15	Multiphase flow characterization using optical fiber Bragg gratings <b>2012</b> ,		1
14	Modeling fully developed laminar flow in a helical duct with rectangular cross section and finite pitch. <i>Applied Mathematical Modelling</i> , <b>2012</b> , 36, 5059-5067	4.5	4

13	Evaluation of stability and size distribution of sunflower oil-coated micro bubbles for localized drug delivery. <i>BioMedical Engineering OnLine</i> , <b>2012</b> , 11, 71	4.1	4
12	Wire-mesh sensor, ultrasound and high-speed videometry applied for the characterization of horizontal gas-liquid slug flow <b>2012</b> ,		3
11	Turbulent Flow in D-Type Corrugated Pipes: Flow Pattern and Friction Factor. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2012</b> , 134,	2.1	19
10	Numerical Study of the Free Surface Flow in a Centrifugal Gas-Liquid Separator <b>2012</b> ,		1
9	Bubble Identification Based on High Speed Videometry Data: Algorithm and Validation. <i>Lecture Notes in Computer Science</i> , <b>2012</b> , 870-876	0.9	
8	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> , <b>2011</b> , 60, 18-33	1.3	3
7	Images Analysis of Horizontal Two-Phase Slug Flows <b>2011</b> ,		2
6	Numerical Simulation of the Flow in a Centrifugal Pump With a Vaned Diffuser <b>2011</b> ,		1
5	Numerical and Experimental Analysis of Turbulent Flow in Corrugated Pipes. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2010</b> , 132,	2.1	20
4	Modeling of free surface flow in a helical channel with finite pitch. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2007</b> , 29, 345-353	2	4
3	Experimental and Numerical Development of a Two-Phase Venturi Flow Meter. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , <b>2004</b> , 126, 457-467	2.1	7
2	Large-eddy simulation of the combined convection around a heated rotating cylinder. <i>International Journal of Heat and Mass Transfer</i> , <b>1999</b> , 42, 941-949	4.9	11
1	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