

Marco Jose Da Silva

List of Publications by Citations

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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.

96
papers

1,270
citations

19
h-index

32
g-index

118
ext. papers

1,448
ext. citations

2.9
avg, IF

4.49
L-index

#	Paper	IF	Citations
96	Capacitance wire-mesh sensor for fast measurement of phase fraction distributions. <i>Measurement Science and Technology</i> , 2007 , 18, 2245-2251	2	183
95	High-resolution gas/liquid two-phase flow visualization with a capacitance wire-mesh sensor. <i>Flow Measurement and Instrumentation</i> , 2010 , 21, 191-197	2.2	95
94	Comparative study of gas/liquid and gas/water two-phase flow in a vertical pipe. <i>Chemical Engineering Science</i> , 2010 , 65, 3836-3848	4.4	72
93	Image processing techniques for high-speed videometry in horizontal two-phase slug flows. <i>Flow Measurement and Instrumentation</i> , 2013 , 33, 257-264	2.2	50
92	Slip ratio in dispersed viscous oil/water pipe flow. <i>Experimental Thermal and Fluid Science</i> , 2011 , 35, 11-19	3	46
91	Comparison between Electrical Capacitance Tomography and Wire Mesh Sensor Output for Air/Silicone Oil Flow in a Vertical Pipe. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 8805-8811	3.9	44
90	Design of an optical tomograph for the investigation of single- and two-phase pipe flows. <i>Measurement Science and Technology</i> , 2008 , 19, 094006	2	43
89	Comparison between wire mesh sensor and gamma densitometry void measurements in two-phase flows. <i>Measurement Science and Technology</i> , 2011 , 22, 104019	2	38
88	Dual-modality wire-mesh sensor for the visualization of three-phase flows. <i>Measurement Science and Technology</i> , 2015 , 26, 105302	2	35
87	Phase fraction distribution measurement of oil/water flow using a capacitance wire-mesh sensor. <i>Measurement Science and Technology</i> , 2011 , 22, 104020	2	33
86	Measurement of Dynamic Liquid Distributions in a Fixed Bed Using Electrical Capacitance Tomography and Capacitance Wire-Mesh Sensor. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 2070-2077	3.9	32
85	Measurement of Liquid Distributions in Particle Packings Using Wire-Mesh Sensor versus Transmission Tomographic Imaging. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 9445-9453	3.9	31
84	Wisp-like structures in vertical gas/liquid pipe flow revealed by wire mesh sensor studies. <i>International Journal of Multiphase Flow</i> , 2010 , 36, 908-915	3.6	31
83	Capacitance wire-mesh sensor applied for the visualization of three-phase gas/liquid/liquid flows. <i>Flow Measurement and Instrumentation</i> , 2013 , 34, 113-117	2.2	29
82	Spatially resolved inline measurement of liquid velocity in trickle bed reactors. <i>Chemical Engineering Journal</i> , 2010 , 158, 623-632	14.7	29
81	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
80	Planar Array Sensor for High-speed Component Distribution Imaging in Fluid Flow Applications. <i>Sensors</i> , 2007 , 7, 2430-2445	3.8	21

79	Characterization of slug initiation for horizontal air-water two-phase flow. <i>Experimental Thermal and Fluid Science</i> , 2017 , 87, 80-92	3	19
78	Two-Phase Slug Flow Characterization Using Artificial Neural Networks. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2016 , 65, 494-501	5.2	19
77	Capacitance Planar Array Sensor for Fast Multiphase Flow Imaging. <i>IEEE Sensors Journal</i> , 2009 , 9, 533-540		19
76	Measurement of Fluid Distributions in a Rotating Fluid Coupling Using High Resolution Gamma Ray Tomography. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2008 , 130,	2.1	19
75	A Novel Needle Probe Based on High-Speed Complex Permittivity Measurements for Investigation of Dynamic Fluid Flows. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2007 , 56, 1249-1256	5.2	19
74	Drag reduction phenomenon in viscous oil-water dispersed pipe flow: Experimental investigation and phenomenological modeling. <i>AIChE Journal</i> , 2012 , 58, 2900-2910	3.6	16
73	A field-focusing imaging sensor for fast visualization of multiphase flows. <i>Measurement Science and Technology</i> , 2009 , 20, 104009	2	16
72	. <i>IEEE Sensors Journal</i> , 2021 , 21, 12913-12925	4	15
71	Single- and two-phase flow characterization using optical fiber bragg gratings. <i>Sensors</i> , 2015 , 15, 6549-59.8		11
70	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
69	Autonomous planar conductivity array sensor for fast liquid distribution imaging in a fluid coupling. <i>Sensors and Actuators A: Physical</i> , 2008 , 147, 508-515	3.9	11
68	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
67	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
66	Quantitative cross-sectional measurement of solid concentration distribution in slurries using a wire-mesh sensor. <i>Measurement Science and Technology</i> , 2016 , 27, 015301	2	10
65	Capacitive Multielectrode Direct-Imaging Sensor for the Visualization of Two-Phase Flows. <i>IEEE Sensors Journal</i> , 2017 , 17, 8047-8058	4	10
64	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
63	Image Reconstruction for Electrical Capacitance Tomography Through Redundant Sensitivity Matrix. <i>IEEE Sensors Journal</i> , 2017 , 17, 8157-8165	4	9
62	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

61	Experimental studies and CFD calculations for buoyancy driven mixing phenomena. <i>Nuclear Engineering and Design</i> , 2010 , 240, 2185-2193	1.8	9
60	. <i>IEEE Access</i> , 2020 , 8, 125163-125178	3.5	9
59	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
58	Statistical features of the flow evolution in horizontal liquid-gas slug flow. <i>Experimental Thermal and Fluid Science</i> , 2020 , 119, 110203	3	8
57	Enhanced Local Void and Temperature Measurements for Highly Transient Multiphase Flows. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2008 , 57, 401-405	5.2	8
56	Autonomous sensor particle for parameter tracking in large vessels. <i>Measurement Science and Technology</i> , 2010 , 21, 085201	2	7
55	Sensing Platform for Two-Phase Flow Studies. <i>IEEE Access</i> , 2019 , 7, 5374-5382	3.5	6
54	Electric discharge detection and localization using a distributed optical fiber vibration sensor. <i>Optical Fiber Technology</i> , 2020 , 58, 102266	2.4	6
53	Three-Dimensional Bubble Shape Estimation in Two-Phase Gas-Liquid Slug Flow. <i>IEEE Sensors Journal</i> , 2017 , 1-1	4	6
52	Air Flow Detection in Crude Oil by Infrared Light. <i>Sensors</i> , 2017 , 17,	3.8	6
51	Wire-Mesh Sensor Super-Resolution Based on Statistical Reconstruction. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2021 , 70, 1-12	5.2	6
50	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
49	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
48	Neuartige kapazitive Sensoren für die Visualisierung von Mehrphasenströmungen Novel Capacitive Sensors for the Visualization of Multi-Phase Flows. <i>TM Technisches Messen</i> , 2009 , 76, 189-197	0.7	5
47	High-speed multichannel impedance measuring system. <i>Acta IMEKO (2012)</i> , 2012 , 1, 36	2	5
46	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
45	Dual-modality impedance wire-mesh sensor for investigation of multiphase flows 2014 ,		4
44	Development of NIR optical tomography system for the investigation of two-phase flows 2014 ,		4

43	Multiphase flow parameter estimation based on laser scattering. <i>Measurement Science and Technology</i> , 2015 , 26, 075205	2	3
42	Optical Fiber Transducer for Monitoring Single-Phase and Two-Phase Flows in Pipes. <i>IEEE Sensors Journal</i> , 2020 , 20, 5943-5952	4	3
41	Dielectric Constant of Mixtures of Carbon Dioxide and n-Dodecane Between 283 K and 343 K. <i>International Journal of Thermophysics</i> , 2020 , 41, 1	2.1	3
40	Bubble shape estimation in gas-liquid slug flow using wire-mesh sensor and advanced data processing 2014 ,		3
39	Kapazitätss-Gittersensor: Prinzip und Anwendung Capacitance Wire-Mesh Sensor: Principle and Application. <i>TM Technisches Messen</i> , 2010 , 77, 209-214	0.7	3
38	Interrogation of Gas/Oil Flow in a Vertical Using Two Tomographic Techniques 2009 ,		3
37	Wire-mesh sensor, ultrasound and high-speed videometry applied for the characterization of horizontal gas-liquid slug flow 2012 ,		3
36	Characterization of the liquid film flow in a centrifugal separator. <i>AIChE Journal</i> , 2016 , 62, 2213-2226	3.6	3
35	Reply to Comments: A Novel Low-Cost Instrumentation System for Measuring the Water Content and Apparent Electrical Conductivity of Soils, <i>Sensors</i> , 15, 25546?25563. <i>Sensors</i> , 2018 , 18,	3.8	3
34	Multiphase flow instrumentation and measurement research in Brazil. <i>IEEE Instrumentation and Measurement Magazine</i> , 2017 , 20, 57-62	1.4	2
33	Electrical and Optical Probe for Two-Phase Flow Monitoring. <i>IEEE Sensors Journal</i> , 2019 , 19, 8706-8713	4	2
32	Simple measuring system for impedance spectroscopy analysis of fluids 2016 ,		2
31	Optical-electrical probe for two-phase flow investigation 2017 ,		2
30	Two-phase flow rate measurement using a capacitive sensor and a Venturi meter 2017 ,		2
29	An Experimental Characterization of Horizontal Gas-Liquid Slug Flow 2015 ,		2
28	Images Analysis of Horizontal Two-Phase Slug Flows 2011 ,		2
27	Advanced wire-mesh sensor technology for fast flow imaging 2009 ,		2
26	High-speed Complex Admittance/permittivity Needle Probe for Investigation of Multiphase Flows. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , 2006 ,		2

25	GPU-accelerated Simulator for Optical Tomography applied to Two-Phase Flows 2019 ,		2
24	Combined Finite Element and Electronic Circuit Model of a Wire-Mesh Sensor. <i>IEEE Access</i> , 2021 , 9, 66309-66322		1
23	Photonic sensors: from horse racing to horse power 2017 ,		1
22	Optical imaging of air and water bubbles flowing through oil 2015 ,		1
21	Sensing Hydrates in Pipes by a Combined Electrical and Optical Fiber Sensor. <i>IEEE Sensors Journal</i> , 2020 , 20, 5012-5018	4	1
20	Addendum to Dielectric Constant of Mixtures of Carbon dioxide and n-Dodecane Between 283 K and 343 K, Int. J. Thermophysics 41, 26, 2020; Complementary Results for Mixtures of Carbon dioxide and Squalane Between 283 K and 343 K. <i>International Journal of Thermophysics</i> , 2020 , 41, 1	2.1	1
19	Requirements for an integrated conditioning circuit for multiphase flow imaging using impedance wire-mesh sensors 2016 ,		1
18	ANN-based image reconstruction for optical tomography applied to gas-liquid flow monitoring 2017 ,		1
17	Two-phase flow measurement based on oblique laser scattering 2015 ,		1
16	Multiphase flow characterization using optical fiber Bragg gratings 2012 ,		1
15	Characterisation of Air-Water Two-Phase Flow Using a Wire-Mesh Sensor 2011 ,		1
14	Development of a high-speed capacitive surface sensor for fluid distribution imaging 2007 ,		1
13	Enhanced Local Void and Temperature Measurements for Highly Transient Two-Phase Flows. <i>Conference Record - IEEE Instrumentation and Measurement Technology Conference</i> , 2006 ,		1
12	Optical Imaging Through Crude Oil 2014 ,		1
11	Two-phase flow pattern classification based on void fraction time series and machine learning. <i>Flow Measurement and Instrumentation</i> , 2021 , 102084	2.2	1
10	Void Fraction Measurement in a Gas-Liquid Swirling Flow Using an Ultrasonic Sensor. <i>IEEE Access</i> , 2020 , 8, 194477-194484	3.5	1
9	Cable Fault Characterization by Time-Domain Analysis From S-Parameter Measurement and Sparse Inverse Chirp-Z Transform. <i>IEEE Sensors Journal</i> , 2021 , 21, 1009-1016	4	1
8	Horse Gait Identification Using Distributed Acoustic Sensing. <i>IEEE Sensors Journal</i> , 2021 , 21, 3058-3065	4	1

7	Tuning capacitance wire-mesh sensor gains for measurement of conductive fluids. <i>TM Technisches Messen</i> , 2021 , 88, s107-s113	0.7	1
6	Model analysis for differential pressure two-phase flow rate meter in intermittent flow. <i>Flow Measurement and Instrumentation</i> , 2021 , 81, 102017	2.2	1
5	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
4	Improvement of wire-mesh sensor accuracy via adapted circuit design and integrated energy loss measurement. <i>Measurement Science and Technology</i> , 2022 , 33, 084002	2	0
3	Guest Editorial Special Issue on Sensors for Process Imaging. <i>IEEE Sensors Journal</i> , 2017 , 17, 8026-8026	4	
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 and Numerical Two-Phase Slug Flow Evolution Analysis with a Slightly Downward Direction Change. <i>Lecture Notes in Mechanical Engineering</i> , 2022 , 283-292	0.4	