

Venkatesan Muniyandi

List of Publications by Year in descending order

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Version: 2024-02-01

81
papers

363
citations

933447

10
h-index

940533

16
g-index

82
all docs

82
docs citations

82
times ranked

270
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of diameter on two-phase pressure drop in narrow tubes. <i>Experimental Thermal and Fluid Science</i> , 2011, 35, 531-541.	2.7	35
2	Effect of tube diameter on two-phase flow patterns in mini tubes. <i>Canadian Journal of Chemical Engineering</i> , 2010, 88, 936-944.	1.7	32
3	Two phase flow regime identification using infrared sensor and volume of fluids method. <i>Flow Measurement and Instrumentation</i> , 2016, 51, 49-54.	2.0	28
4	Effect of Bubble Size on Aeration Process. <i>Asian Journal of Scientific Research</i> , 2014, 7, 482-487.	0.1	21
5	Polymer additive manufacturing of ASA structure: Influence of printing parameters on mechanical properties. <i>Materials Today: Proceedings</i> , 2021, 39, 1316-1319.	1.8	20
6	A single acting syringe pump based on Raspberry Pi - SOC. , 2015, , .		14
7	Measurement of liquid film thickness in air-water two phase flows in conventional and mini channels using image processing. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 826-836.	2.7	14
8	Computational heat transfer analysis and combined ANN-GA optimization of hollow cylindrical pin fin on a vertical base plate. <i>Sadhana - Academy Proceedings in Engineering Sciences</i> , 2015, 40, 1845-1863.	1.3	14
9	Characterization of gas-liquid two phase flows using dielectric Sensors. <i>Flow Measurement and Instrumentation</i> , 2015, 45, 274-279.	2.0	12
10	Effect of IR Transceiver orientation on gas/liquid two-phase flow regimes. <i>Flow Measurement and Instrumentation</i> , 2017, 58, 12-20.	2.0	12
11	Laser induced fluorescence measurement of liquid film thickness and variation in Taylor flow. <i>European Journal of Mechanics, B/Fluids</i> , 2018, 70, 85-92.	2.5	11
12	An 8051 Microcontroller based Syringe Pump Control System for Surface Micromachining. , 2014, 5, 1791-1800.		10
13	Laser-Based Measurement of Gas-Liquid Two-Phase Flows in Micro and Mini Channels using Multiple Photodiode Arrangement. <i>Chemical Engineering Communications</i> , 2017, 204, 337-347.	2.6	9
14	Volumetric Reconstruction of Taylor Slug Gas Flow Using IR Transceiver in Minichannels. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2020, 69, 3818-3825.	4.7	9
15	Data acquisition system based on 8051 microcontroller for cutting tool temperature measurement. , 2013, , .		8
16	Computational Heat Transfer Analysis and Genetic Algorithm-Artificial Neural Network-Genetic Algorithm-Based Multiobjective Optimization of Rectangular Perforated Plate Fins. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2017, , 1-9.	2.5	7
17	IR Transceiver Irradiation Characteristics on Bubble/Slug Flow Regimes in Conventional and Minichannels. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019, 68, 240-249.	4.7	7
18	Electrohydrodynamic Effects on Single Bubble Growth and Departure under Microgravity Conditions: a Numerical Investigation. <i>Microgravity Science and Technology</i> , 2019, 31, 805-819.	1.4	6

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19	Application of image processing for a bubble column reactor. , 2013, , .		5
20	Computational Modeling and Analysis of Fluid Structure Interaction in Micromixers with Deformable Baffle. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.1	5
21	Thrust Measurement Using Force Sensitive Resistor. , 2017, , .		5
22	Nozzle flow characteristics of P.E.E.K (Poly-ether ether ketone) material used in 3D-printing. Materials Today: Proceedings, 2021, 44, 2963-2967.	1.8	5
23	Thin film capacitor for void fraction measurement in a two-phase system. , 2013, , .		4
24	Automated temperature control in batch reactor using LabVIEW. , 2014, , .		4
25	Characterization of Gas-Liquid Two-Phase Flows Using Laser Patterns. Canadian Journal of Chemical Engineering, 2015, 93, 1678-1685.	1.7	4
26	Experimental Investigation of Subcooled Flow Boiling in a Minichannel. Heat Transfer Engineering, 2015, 36, 408-417.	1.9	4
27	Double acting syringe pump using a rack and pinion mechanism " Simulink model. , 2016, , .		4
28	Scotch-Yoke mechanism for a syringe pump - A case study. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012221.	0.6	4
29	Artificial Neural Network based Prediction of Pressure Drop in Heat Exchangers. Indian Journal of Science and Technology, 2015, 8, 87.	0.7	4
30	Analysis of Flow Mal-Distribution in a Cross-Flow Heat Exchanger. Applied Mechanics and Materials, 0, 592-594, 1428-1432.	0.2	3
31	Experimental Investigation on Droplet Cooling of Brakes. Applied Mechanics and Materials, 0, 592-594, 1585-1589.	0.2	3
32	Bubble Trajectory in a Bubble Column Reactor using Combined Image Processing and Artificial Neural Network. International Journal of Chemical Reactor Engineering, 2017, 15, .	1.1	3
33	Mini-channel Two Phase Flow of Hydrogen Peroxide: Decomposition with Silver Catalyst. Journal of Aerospace Technology and Management, 2018, 10, .	0.3	3
34	Mitigation of common mode voltage in five phase multilevel inverter. Materials Today: Proceedings, 2021, 45, 1761-1769.	1.8	3
35	Fluid Flow and Boiling Heat Transfer in Mini Channels. , 2010, , .		2
36	Design of motor speed control using LabVIEW for air-flow control in wind tunnels. , 2014, , .		2

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37	Artificial neural network-based temperature prediction in heat sinks with cross cuts fins. International Journal of Advanced Intelligence Paradigms, 2015, 7, 292.	0.3	2
38	Motion control analysis of a quadcopter system part II " Modelling. , 2016, , .		2
39	Image processing algorithm for droplet measurement after impingement. , 2016, , .		2
40	Droplet impinging behavior on surfaces: Part II - Water on aluminium and cast iron surfaces. IOP Conference Series: Materials Science and Engineering, 2016, 149, 012220.	0.6	2
41	ANN-GA optimisation of rectangular fin array with closed top plate under forced convection. Progress in Computational Fluid Dynamics, 2018, 18, 188.	0.2	2
42	Numerical model for concentration measurement during decomposition of H2O2 over silver catalyst. MATEC Web of Conferences, 2018, 172, 01008.	0.2	2
43	Determining the Thin Film Thickness of Two Phase Flow using Optics and Image Processing. Journal of Applied Fluid Mechanics, 2017, 10, 925-932.	0.2	2
44	Microcontroller based Capacitance Meter for a Two Phase Flow Sensor. , 2013, , .		1
45	Numerical Studies on Natural Convection Heat Transfer " Fins with Closed Top. Applied Mechanics and Materials, 0, 592-594, 1682-1686.	0.2	1
46	Numerical Investigation of Natural Convection in a Square Enclosure with a Baffle Mounted on Vertical Wall. Applied Mechanics and Materials, 2015, 813-814, 748-753.	0.2	1
47	Motion control analysis of a quad rotor system part I " Experiments. , 2016, , .		1
48	A note on using VOF method for polymer bead manufacturing. International Journal of Plastics Technology, 2018, 22, 170-176.	3.1	1
49	Phase Split in T-Junction Mini Channel " A Numerical Study. Chemical Product and Process Modeling, 2018, 13, .	0.9	1
50	Enhancement of heat transfer in phase change material using graphite-paraffin composites. MATEC Web of Conferences, 2018, 172, 02001.	0.2	1
51	MANFIS"GA Heat Transfer Analysis and Optimization of Fins with Elliptical Perforation. Iranian Journal of Science and Technology - Transactions of Mechanical Engineering, 2019, 43, 567-577.	1.3	1
52	Simulation and numerical analysis of warm stamping (AA6061). Materials Today: Proceedings, 2019, 16, 598-603.	1.8	1
53	Image Processing Technique for slug length measurement during Mixing and Separation of Two-phase Flows in T sections. Materials Today: Proceedings, 2019, 16, 738-743.	1.8	1
54	Intelligent Flow Regime Identification Using IR Sensor and 3.5mm Headphone Jack. International Journal of Automation and Smart Technology, 2018, 8, 113-118.	0.4	1

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55	Low concentration hydrogen peroxide decomposition inside a minichannel with annual silver catalyst. <i>Materials Today: Proceedings</i> , 2021, , .	1.8	1
56	Effect of tube diameter on elongated bubble length in mini channels. , 2010, , .		0
57	LabVIEW based online phase fraction determination using dielectric sensing. , 2014, , .		0
58	Investigation of Single Water Droplet Evaporation over Aluminium Surfaces Using High Speed Camera and Image Processing. <i>Applied Mechanics and Materials</i> , 0, 592-594, 1642-1646.	0.2	0
59	Brake Characteristics and Cooling Methods â€” A Review. <i>Applied Mechanics and Materials</i> , 2015, 813-814, 949-953.	0.2	0
60	Numerical Analysis on Hollow Cylindrical Pin Fins - Natural Convection. <i>Applied Mechanics and Materials</i> , 2015, 813-814, 713-717.	0.2	0
61	Design of Two-Axis Automatic Sun Tracking System Assisted with Manual Control through LabVIEW. <i>Applied Mechanics and Materials</i> , 2015, 813-814, 992-996.	0.2	0
62	Hydrodynamic Study of Bubbles in a Bubble Column Reactor Part I â€” Image Processing. <i>Applied Mechanics and Materials</i> , 2015, 813-814, 1018-1022.	0.2	0
63	Hydrodynamic Study of Bubbles in a Bubble Column Reactor Part II â€” Numerical Study. <i>Applied Mechanics and Materials</i> , 2015, 813-814, 1023-1027.	0.2	0
64	Forging of Naval Brass (ASTM B16) - Finite Element Analysis using Ls Dyna. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 149, 012126.	0.6	0
65	Droplet impinging behavior on surfaces Part I - Hydrogen Peroxide on Aluminium Surface. <i>IOP Conference Series: Materials Science and Engineering</i> , 2016, 149, 012219.	0.6	0
66	Finite Element Method Based Multi Objective Topology Optimization for Enhanced Mixing With Reduced Pressure Drop. , 2016, , .		0
67	Agile and cost-effective ultrasonic module for people with visual impairment using a headphone jack: Implications for enhancing mobility aids. <i>British Journal of Visual Impairment</i> , 2017, 35, 275-282.	0.8	0
68	Concentration Variation Detection of Hydrogen Peroxide Using an IR Sensor. , 2017, , .		0
69	BLDC Motor Control Based on Duty Cycle. , 2017, , .		0
70	Bubble Behavior in a CD Nozzle - Image Processing Technique. , 2017, , .		0
71	Integration of Hall Sensor in a 3D Printer as a Limit Switch. , 2017, , .		0
72	Slug-bubble regime identification in a square channel using a IR Sensor. <i>MATEC Web of Conferences</i> , 2018, 172, 01002.	0.2	0

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73	Drag reduction in a class 8 truck - scaled down model. MATEC Web of Conferences, 2018, 172, 01003.	0.2	0
74	Attenuation and shape effects on IR transceiver irradiation behaviour during air-hydrogen peroxide two-phase flow. Chemical Papers, 2019, 73, 2783-2792.	2.2	0
75	Signal characteristics of IR transceiver pair during two phase flow of varying liquid film thickness in a mini-channel. Chemical Engineering Communications, 2021, 208, 870-882.	2.6	0
76	Concentration measurement of a mixture using an infrared transceiver. Flow Measurement and Instrumentation, 2021, 80, 101974.	2.0	0
77	ANN-GA OPTIMISATION OF RECTANGULAR FIN ARRAY WITH CLOSED TOP PLATE UNDER FORCED CONVECTION. Progress in Computational Fluid Dynamics, 2016, 1, 1.	0.2	0
78	ANNULAR MIXING SECTION EFFECTS ON HYDROGEN PEROXIDE-AIR TWO-PHASE FLOW INSIDE AMINI-CHANNEL. International Journal of Energetic Materials and Chemical Propulsion, 2016, 15, 453-466.	0.3	0
79	TWO-PHASE FLOW BEHAVIOR IN A CONVERGENT-DIVERGENT MINI-CHANNEL NOZZLE. International Journal of Energetic Materials and Chemical Propulsion, 2018, 17, 1-11.	0.3	0
80	CHARACTERIZATION OF TWO-PHASE FLOW REGIMES USING LASER-PHOTORESISTOR TRANSCEIVER SETUPS. Multiphase Science and Technology, 2019, 31, 345-358.	0.5	0
81	Vane induced two phase flow mixing. IOP Conference Series: Earth and Environmental Science, 2021, 850, 012022.	0.3	0