

Dhiman Chatterjee

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,104
citations

567281
15
h-index

395702
33
g-index

40
all docs

40
docs citations

40
times ranked

894
citing authors

#	ARTICLE	IF	CITATIONS
1	Prediction of unsteady, internal turbulent cavitating flow using dynamic cavitation model. International Journal of Numerical Methods for Heat and Fluid Flow, 2022, ahead-of-print, .	2.8	8
2	Numerical study of purging of a gasoline direct injection nozzle at the end of injection. International Journal of Engine Research, 2021, 22, 1670-1684.	2.3	4
3	Fabrication of monolithic SU-8 microneedle arrays having different needle geometries using a simplified process. International Journal of Advanced Manufacturing Technology, 2021, 114, 3615-3626.	3.0	6
4	Design methodology of hybrid turbine towards better extraction of wind energy. Renewable Energy, 2019, 131, 625-643.	8.9	19
5	Evaporation of thin liquid film of single and multi-component hydrocarbon fuel from a hot plate. International Journal of Heat and Mass Transfer, 2019, 141, 379-389.	4.8	8
6	Improved Resistance of Nanoparticle-Laden Polymer Coatings Subjected to Combined Silt and Cavitation. Materials Performance and Characterization, 2019, 7, 20180010.	0.3	0
7	Numerical prediction of potential cavitation erosion in fuel injectors. International Journal of Multiphase Flow, 2018, 104, 113-124.	3.4	17
8	Development of flow in a square mini-channel: Effect of flow oscillation. Physics of Fluids, 2018, 30, 042003.	4.0	13
9	Experimental investigation on two-phase flow maldistribution in parallel minichannels with U-tube configuration. Canadian Journal of Chemical Engineering, 2018, 96, 1820-1828.	1.7	11
10	Effect of geometrical parameters on slug behaviour and two phase pressure drop in microchannel T-junctions. Chemical Engineering and Processing: Process Intensification, 2018, 130, 76-87.	3.6	16
11	Experimental Investigation of Cavitation Behind a Circular Cylinder in Cross-Flow. Journal of Thermal Science and Engineering Applications, 2017, 9, .	1.5	3
12	Experimental investigation of cavitating structures in the near wake of a cylinder. International Journal of Multiphase Flow, 2017, 89, 207-217.	3.4	35
13	Experimental characterization of piezoelectrically actuated micromachined silicon valveless micropump. Microfluidics and Nanofluidics, 2017, 21, 1.	2.2	25
14	Numerical prediction of the performance of radial inflow turbine designed for ocean thermal energy conversion system. Applied Energy, 2016, 167, 1-16.	10.1	57
15	Design and performance analysis of radial-inflow turboexpander for OTEC application. Renewable Energy, 2016, 85, 834-843.	8.9	31
16	The role of encapsulated microbubbles in the diagnosis of stenosis in arteries. Journal of Physics: Conference Series, 2015, 656, 012002.	0.4	2
17	Computational analysis of flow over a cascade of S-shaped hydrofoil of fully reversible pump-turbine used in extracting tidal energy. Renewable Energy, 2015, 77, 240-249.	8.9	13
18	Erosion Characteristics of Nanoparticle-Reinforced Polyurethane Coatings on Stainless Steel Substrate. Journal of Materials Engineering and Performance, 2015, 24, 1391-1405.	2.5	16

#	ARTICLE	IF	CITATIONS
19	Experimental Characterization of Silt Erosion of 16Cr–5Ni Steels and Prediction Using Artificial Neural Network. Transactions of the Indian Institute of Metals, 2015, 68, 587-599.	1.5	11
20	Study on the characteristics of hydrogen bubble formation and its transport during electrolysis of water. Chemical Engineering Science, 2015, 138, 99-109.	3.8	63
21	Physics of the Interaction of Ultrasonic Excitation With Nucleate Boiling. Journal of Heat Transfer, 2014, 136, .	2.1	16
22	Cavitation Characteristics of S-Blade Used in Fully Reversible Pump-Turbine. Journal of Fluids Engineering, Transactions of the ASME, 2014, 136, .	1.5	15
23	Design and Development of a Piezoelectrically Actuated Micropump for Drug Delivery Application. Springer Tracts in Mechanical Engineering, 2014, , 127-141.	0.3	3
24	An efficient numerical method for predicting the performance of valveless micropump. Smart Materials and Structures, 2012, 21, 115012.	3.5	7
25	Parametric characterization of piezoelectric valveless micropump. Microsystem Technologies, 2011, 17, 1727-1737.	2.0	19
26	Performance of numerical schemes in the simulation of two-phase free flows and wall bounded mini channel flows. Chemical Engineering Science, 2010, 65, 5117-5136.	3.8	11
27	Material characterization of the encapsulation of an ultrasound contrast microbubble and its subharmonic response: Strain-softening interfacial elasticity model. Journal of the Acoustical Society of America, 2010, 127, 3846-3857.	1.1	101
28	Experimental Investigation of the Effect of Tube-to-Tube Porous Medium Interconnectors on the Thermohydraulics of Confined Tube Banks. Heat Transfer Engineering, 2010, 31, 518-526.	1.9	6
29	Numerical study of turbulent flow over an S-shaped hydrofoil. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2008, 222, 1717-1734.	2.1	14
30	Modeling and Characterization of Encapsulated Microbubbles for Ultrasound Imaging and Drug Delivery. AIP Conference Proceedings, 2008, , .	0.4	0
31	Analytical Investigation of Hydrodynamic Cavitation Control by Ultrasonics. Nonlinear Dynamics, 2006, 46, 179-194.	5.2	4
32	Characterization and Ultrasound-Pulse Mediated Destruction of Ultrasound Contrast Microbubbles. AIP Conference Proceedings, 2006, , .	0.4	0
33	On the suitability of broadband attenuation measurement for characterizing contrast microbubbles. Ultrasound in Medicine and Biology, 2005, 31, 781-786.	1.5	41
34	Ultrasound-mediated destruction of contrast microbubbles used for medical imaging and drug delivery. Physics of Fluids, 2005, 17, 100603.	4.0	50
35	Characterization of ultrasound contrast microbubbles using in vitro experiments and viscous and viscoelastic interface models for encapsulation. Journal of the Acoustical Society of America, 2005, 118, 539-550.	1.1	240
36	Modeling Thin-Walled Microbubbles for Medical Ultrasound. , 2004, , 221.		0

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37	Some investigations on the use of ultrasonics in travelling bubble cavitation control. Journal of Fluid Mechanics, 2004, 504, 365-389.	3.4	18
38	Use of ultrasonics in shear layer cavitation control. Ultrasonics, 2003, 41, 465-475.	3.9	15
39	A Newtonian rheological model for the interface of microbubble contrast agents. Ultrasound in Medicine and Biology, 2003, 29, 1749-1757.	1.5	155
40	Towards the concept of hydrodynamic cavitation control. Journal of Fluid Mechanics, 1997, 332, 377-394.	3.4	31