

Dhiman Chatterjee

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3182566/publications.pdf>

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	Characterization of ultrasound contrast microbubbles using in vitro experiments and viscous and viscoelastic interface models for encapsulation. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 539-550.	1.1	240
2	A Newtonian rheological model for the interface of microbubble contrast agents. <i>Ultrasound in Medicine and Biology</i> , 2003, 29, 1749-1757.	1.5	155
3	Material characterization of the encapsulation of an ultrasound contrast microbubble and its subharmonic response: Strain-softening interfacial elasticity model. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 3846-3857.	1.1	101
4	Study on the characteristics of hydrogen bubble formation and its transport during electrolysis of water. <i>Chemical Engineering Science</i> , 2015, 138, 99-109.	3.8	63
5	Numerical prediction of the performance of radial inflow turbine designed for ocean thermal energy conversion system. <i>Applied Energy</i> , 2016, 167, 1-16.	10.1	57
6	Ultrasound-mediated destruction of contrast microbubbles used for medical imaging and drug delivery. <i>Physics of Fluids</i> , 2005, 17, 100603.	4.0	50
7	On the suitability of broadband attenuation measurement for characterizing contrast microbubbles. <i>Ultrasound in Medicine and Biology</i> , 2005, 31, 781-786.	1.5	41
8	Experimental investigation of cavitating structures in the near wake of a cylinder. <i>International Journal of Multiphase Flow</i> , 2017, 89, 207-217.	3.4	35
9	Towards the concept of hydrodynamic cavitation control. <i>Journal of Fluid Mechanics</i> , 1997, 332, 377-394.	3.4	31
10	Design and performance analysis of radial-inflow turboexpander for OTEC application. <i>Renewable Energy</i> , 2016, 85, 834-843.	8.9	31
11	Experimental characterization of piezoelectrically actuated micromachined silicon valveless micropump. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	25
12	Parametric characterization of piezoelectric valveless micropump. <i>Microsystem Technologies</i> , 2011, 17, 1727-1737.	2.0	19
13	Design methodology of hybrid turbine towards better extraction of wind energy. <i>Renewable Energy</i> , 2019, 131, 625-643.	8.9	19
14	Some investigations on the use of ultrasonics in travelling bubble cavitation control. <i>Journal of Fluid Mechanics</i> , 2004, 504, 365-389.	3.4	18
15	Numerical prediction of potential cavitation erosion in fuel injectors. <i>International Journal of Multiphase Flow</i> , 2018, 104, 113-124.	3.4	17
16	Physics of the Interaction of Ultrasonic Excitation With Nucleate Boiling. <i>Journal of Heat Transfer</i> , 2014, 136, .	2.1	16
17	Erosion Characteristics of Nanoparticle-Reinforced Polyurethane Coatings on Stainless Steel Substrate. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 1391-1405.	2.5	16
18	Effect of geometrical parameters on slug behaviour and two phase pressure drop in microchannel T-junctions. <i>Chemical Engineering and Processing: Process Intensification</i> , 2018, 130, 76-87.	3.6	16

#	ARTICLE	IF	CITATIONS
19	Use of ultrasonics in shear layer cavitation control. <i>Ultrasonics</i> , 2003, 41, 465-475.	3.9	15
20	Cavitation Characteristics of S-Blade Used in Fully Reversible Pump-Turbine. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2014, 136, .	1.5	15
21	Numerical study of turbulent flow over an S-shaped hydrofoil. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2008, 222, 1717-1734.	2.1	14
22	Computational analysis of flow over a cascade of S-shaped hydrofoil of fully reversible pump-turbine used in extracting tidal energy. <i>Renewable Energy</i> , 2015, 77, 240-249.	8.9	13
23	Development of flow in a square mini-channel: Effect of flow oscillation. <i>Physics of Fluids</i> , 2018, 30, 042003.	4.0	13
24	Performance of numerical schemes in the simulation of two-phase free flows and wall bounded mini channel flows. <i>Chemical Engineering Science</i> , 2010, 65, 5117-5136.	3.8	11
25	Experimental Characterization of Silt Erosion of 16Cr ⁵ Ni Steels and Prediction Using Artificial Neural Network. <i>Transactions of the Indian Institute of Metals</i> , 2015, 68, 587-599.	1.5	11
26	Experimental investigation on two-phase flow maldistribution in parallel minichannels with U-type configuration. <i>Canadian Journal of Chemical Engineering</i> , 2018, 96, 1820-1828.	1.7	11
27	Evaporation of thin liquid film of single and multi-component hydrocarbon fuel from a hot plate. <i>International Journal of Heat and Mass Transfer</i> , 2019, 141, 379-389.	4.8	8
28	Prediction of unsteady, internal turbulent cavitating flow using dynamic cavitation model. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2022, ahead-of-print, .	2.8	8
29	An efficient numerical method for predicting the performance of valveless micropump. <i>Smart Materials and Structures</i> , 2012, 21, 115012.	3.5	7
30	Experimental Investigation of the Effect of Tube-to-Tube Porous Medium Interconnectors on the Thermohydraulics of Confined Tube Banks. <i>Heat Transfer Engineering</i> , 2010, 31, 518-526.	1.9	6
31	Fabrication of monolithic SU-8 microneedle arrays having different needle geometries using a simplified process. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 114, 3615-3626.	3.0	6
32	Analytical Investigation of Hydrodynamic Cavitation Control by Ultrasonics. <i>Nonlinear Dynamics</i> , 2006, 46, 179-194.	5.2	4
33	Numerical study of purging of a gasoline direct injection nozzle at the end of injection. <i>International Journal of Engine Research</i> , 2021, 22, 1670-1684.	2.3	4
34	Experimental Investigation of Cavitation Behind a Circular Cylinder in Cross-Flow. <i>Journal of Thermal Science and Engineering Applications</i> , 2017, 9, .	1.5	3
35	Design and Development of a Piezoelectrically Actuated Micropump for Drug Delivery Application. <i>Springer Tracts in Mechanical Engineering</i> , 2014, , 127-141.	0.3	3
36	The role of encapsulated microbubbles in the diagnosis of stenosis in arteries. <i>Journal of Physics: Conference Series</i> , 2015, 656, 012002.	0.4	2

#	ARTICLE	IF	CITATIONS
37	Modeling Thin-Walled Microbubbles for Medical Ultrasound. , 2004, , 221.		0
38	Characterization and Ultrasound-Pulse Mediated Destruction of Ultrasound Contrast Microbubbles. AIP Conference Proceedings, 2006, , .	0.4	0
39	Modeling and Characterization of Encapsulated Microbubbles for Ultrasound Imaging and Drug Delivery. AIP Conference Proceedings, 2008, , .	0.4	0
40	Improved Resistance of Nanoparticle-Laden Polymer Coatings Subjected to Combined Silt and Cavitation. Materials Performance and Characterization, 2019, 7, 20180010.	0.3	0