

Sarit Kumar Das

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.

32
papers

3,401
citations

15
h-index

34
g-index

34
ext. papers

3,739
ext. citations

3.9
avg, IF

5.16
L-index

#	Paper	IF	Citations
32	Temperature Dependence of Thermal Conductivity Enhancement for Nanofluids. <i>Journal of Heat Transfer</i> , 2003 , 125, 567-574	1.8	1723
31	Heat Transfer in Nanofluids: A Review. <i>Heat Transfer Engineering</i> , 2006 , 27, 3-19	1.7	921
30	Graphene from sugar and its application in water purification. <i>ACS Applied Materials & Interfaces</i> , 2012 , 4, 4156-63	9.5	171
29	Organic Solvent-Free Fabrication of Durable and Multifunctional Superhydrophobic Paper from Waterborne Fluorinated Cellulose Nanofiber Building Blocks. <i>ACS Nano</i> , 2017 , 11, 11091-11099	16.7	120
28	Simultaneous Dehalogenation and Removal of Persistent Halocarbon Pesticides from Water Using Graphene Nanocomposites: A Case Study of Lindane. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1155-1163	8.3	60
27	A cell model approach for thermal conductivity of nanofluids. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 87-97	2.3	41
26	Brownian dynamic simulation for the prediction of effective thermal conductivity of nanofluid. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 767-773	2.3	38
25	Dynamics of plate heat exchangers subject to flow variations. <i>International Journal of Heat and Mass Transfer</i> , 2007 , 50, 2733-2743	4.9	36
24	Morphology of drop impact on a superhydrophobic surface with macro-structures. <i>Physics of Fluids</i> , 2017 , 29, 082104	4.4	35
23	Wettability of Complex Fluids and Surfactant Capped Nanoparticle-Induced Quasi-Universal Wetting Behavior. <i>Journal of Physical Chemistry B</i> , 2017 , 121, 6081-6095	3.4	28
22	The Performance Analysis of a Multi-Duct Proton Exchange Membrane Fuel Cell Cathode. <i>International Journal of Green Energy</i> , 2008 , 5, 35-54	3	22
21	Heat spreader with parallel microchannel configurations employing nanofluids for near-active cooling of MEMS. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 111, 570-581	4.9	21
20	Experimental studies on the effect of tube inclination on nucleate pool boiling. <i>Heat and Mass Transfer</i> , 2009 , 45, 1493-1502	2.2	19
19	Numerical simulation of laminar flow and heat transfer over banks of staggered cylinders. <i>International Journal for Numerical Methods in Fluids</i> , 2002 , 39, 23-40	1.9	19
18	Fabrication of a Waterborne Durable Superhydrophobic Material Functioning in Air and under Oil. <i>Advanced Materials Interfaces</i> , 2018 , 5, 1701523	4.6	16
17	Investigation on Flow Maldistribution in Parallel Microchannel Systems for Integrated Microelectronic Device Cooling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2014 , 4, 438-450	1.7	15
16	Transient response of multipass plate heat exchangers with axial thermal dispersion in fluid. <i>International Journal of Heat and Mass Transfer</i> , 2000 , 43, 4327-4345	4.9	15

15	Numerical simulation of effects of flow maldistribution on heat and mass transfer in a PEM fuel cell stack. <i>Heat and Mass Transfer</i> , 2007 , 43, 1037-1047	2.2	14
14	An efficient solution method for incompressible N-S equations using non-orthogonal collocated grid. <i>International Journal for Numerical Methods in Engineering</i> , 1999 , 45, 741-763	2.4	13
13	Droplet ski-jumping on an inclined macro-textured superhydrophobic surface. <i>Applied Physics Letters</i> , 2018 , 113, 103702	3.4	12
12	A Numerical Study of Flow and Temperature Maldistribution in a Parallel Microchannel System for Heat Removal in Microelectronic Devices. <i>Journal of Thermal Science and Engineering Applications</i> , 2013 , 5,	1.9	11
11	A hydrometeorological approach for probabilistic simulation of monthly soil moisture under bare and crop land conditions. <i>Water Resources Research</i> , 2015 , 51, 2336-2355	5.4	10
10	Thermally Smart Characteristics of Nanofluids in Parallel Microchannel Systems to Mitigate Hot Spots in MEMS. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2016 , 6, 1834-1846 ⁸	1.7	8
9	Potential of Probabilistic Hydrometeorological Approach for Precipitation-Based Soil Moisture Estimation. <i>Journal of Hydrologic Engineering - ASCE</i> , 2015 , 20, 04014056	1.8	6
8	Waterborne Fluorine-Free Superhydrophobic Surfaces Exhibiting Simultaneous CO ₂ and Humidity Sorption. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1901013	4.6	6
7	Anomalous subsurface thermal behavior in tissue mimics upon near infrared irradiation mediated photothermal therapy. <i>Journal of Biomedical Nanotechnology</i> , 2014 , 10, 405-14	4	6
6	Augmented Thermal Performance of Straight Heat Pipe Employing Annular Screen Mesh Wick and Surfactant Free Stable Aqueous Nanofluids. <i>Heat Transfer Engineering</i> , 2017 , 38, 217-226	1.7	4
5	Investigation of thermal damage of tissues embedded with large blood vessels during plasmonic photo-thermal heating (PPTH). <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2016 , 26, 461-476	4.5	4
4	An Aqueous Composition for Lubricant-Free, Robust, Slippery, Transparent Coatings on Diverse Substrates. <i>Global Challenges</i> , 2018 , 2, 1700097	4.3	3
3	Probabilistic simulation of surface soil moisture using hydrometeorological inputs. <i>ISH Journal of Hydraulic Engineering</i> , 2013 , 19, 227-234	1.5	3
2	A new segmentation technique for brain and head from high resolution MR image using unique histogram features 2010 ,		1
1	Superhydrophobic Surfaces: Waterborne Fluorine-Free Superhydrophobic Surfaces Exhibiting Simultaneous CO ₂ and Humidity Sorption (Adv. Mater. Interfaces 23/2019). <i>Advanced Materials Interfaces</i> , 2019 , 6, 1970147	4.6	