Sarit Kumar Das

List of Publications by Year
in descending order

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34	4,126	471061 17	454577 30
papers	citations	h-index	g-index

34	34	34	3949
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Temperature Dependence of Thermal Conductivity Enhancement for Nanofluids. Journal of Heat Transfer, 2003, 125, 567-574.	1.2	2,030
2	Heat Transfer in Nanofluidsâ€"A Review. Heat Transfer Engineering, 2006, 27, 3-19.	1.2	1,135
3	Graphene from Sugar and its Application in Water Purification. ACS Applied Materials & Interfaces, 2012, 4, 4156-4163.	4.0	216
4	Organic Solvent-Free Fabrication of Durable and Multifunctional Superhydrophobic Paper from Waterborne Fluorinated Cellulose Nanofiber Building Blocks. ACS Nano, 2017, 11, 11091-11099.	7.3	154
5	Simultaneous Dehalogenation and Removal of Persistent Halocarbon Pesticides from Water Using Graphene Nanocomposites: A Case Study of Lindane. ACS Sustainable Chemistry and Engineering, 2015, 3, 1155-1163.	3.2	69
6	Morphology of drop impact on a superhydrophobic surface with macro-structures. Physics of Fluids, 2017, 29, .	1.6	50
7	Brownian dynamic simulation for the prediction of effective thermal conductivity of nanofluid. Journal of Nanoparticle Research, 2009, 11, 767-773.	0.8	48
8	Dynamics of plate heat exchangers subject to flow variations. International Journal of Heat and Mass Transfer, 2007, 50, 2733-2743.	2.5	45
9	A cell model approach for thermal conductivity of nanofluids. Journal of Nanoparticle Research, 2008, 10, 87-97.	0.8	45
10	Heat spreader with parallel microchannel configurations employing nanofluids for nearâ€"active cooling of MEMS. International Journal of Heat and Mass Transfer, 2017, 111, 570-581.	2.5	35
11	Wettability of Complex Fluids and Surfactant Capped Nanoparticle-Induced Quasi-Universal Wetting Behavior. Journal of Physical Chemistry B, 2017, 121, 6081-6095.	1.2	33
12	Investigation on Flow Maldistribution in Parallel Microchannel Systems for Integrated Microelectronic Device Cooling. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2014, 4, 438-450.	1.4	29
13	Numerical simulation of laminar flow and heat transfer over banks of staggered cylinders. International Journal for Numerical Methods in Fluids, 2002, 39, 23-40.	0.9	23
14	The Performance Analysis of a Multi-Duct Proton Exchange Membrane Fuel Cell Cathode. International Journal of Green Energy, 2008, 5, 35-54.	2.1	22
15	Experimental studies on the effect of tube inclination on nucleate pool boiling. Heat and Mass Transfer, 2009, 45, 1493-1502.	1.2	22
16	Fabrication of a Waterborne Durable Superhydrophobic Material Functioning in Air and under Oil. Advanced Materials Interfaces, 2018, 5, 1701523.	1.9	20
17	Transient response of multipass plate heat exchangers with axial thermal dispersion in fluid. International Journal of Heat and Mass Transfer, 2000, 43, 4327-4345.	2.5	19
18	Numerical simulation of effects of flow maldistribution on heat and mass transfer in a PEM fuel cell stack. Heat and Mass Transfer, 2007, 43, 1037-1047.	1.2	16

#	Article	IF	Citations
19	An efficient solution method for incompressible N-S equations using non-orthogonal collocated grid. International Journal for Numerical Methods in Engineering, 1999, 45, 741-763.	1.5	15
20	Droplet ski-jumping on an inclined macro-textured superhydrophobic surface. Applied Physics Letters, 2018, 113, .	1.5	15
21	A hydrometeorological approach for probabilistic simulation of monthly soil moisture under bare and crop land conditions. Water Resources Research, 2015, 51, 2336-2355.	1.7	14
22	A Numerical Study of Flow and Temperature Maldistribution in a Parallel Microchannel System for Heat Removal in Microelectronic Devices. Journal of Thermal Science and Engineering Applications, 2013, 5, .	0.8	12
23	Augmented Thermal Performance of Straight Heat Pipe Employing Annular Screen Mesh Wick and Surfactant Free Stable Aqueous Nanofluids. Heat Transfer Engineering, 2017, 38, 217-226.	1.2	10
24	Waterborne Fluorineâ€Free Superhydrophobic Surfaces Exhibiting Simultaneous CO 2 and Humidity Sorption. Advanced Materials Interfaces, 2019, 6, 1901013.	1.9	10
25	Thermally â€œ<italic>Smart</italic>â€•Characteristics of Nanofluids in Parallel Microchannel Systems to Mitigate Hot Spots in MEMS. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2016, 6, 1834-1846.	1.4	9
26	Investigation of thermal damage of tissues embedded with large blood vessels during plasmonic photo-thermal heating (PPTH). International Journal of Numerical Methods for Heat and Fluid Flow, 2016, 26, 461-476.	1.6	7
27	Anomalous Subsurface Thermal Behavior in Tissue Mimics Upon Near Infrared Irradiation Mediated Photothermal Therapy. Journal of Biomedical Nanotechnology, 2014, 10, 405-414.	0.5	6
28	Potential of Probabilistic Hydrometeorological Approach for Precipitation-Based Soil Moisture Estimation. Journal of Hydrologic Engineering - ASCE, 2015, 20, 04014056.	0.8	6
29	Probabilistic simulation of surface soil moisture using hydrometeorological inputs. ISH Journal of Hydraulic Engineering, 2013, 19, 227-234.	1.1	5
30	An Aqueous Composition for Lubricantâ€Free, Robust, Slippery, Transparent Coatings on Diverse Substrates. Global Challenges, 2018, 2, 1700097.	1.8	5
31	A new segmentation technique for brain and head from high resolution MR image using unique histogram features. , 2010, , .		1
32	High resolution MR image of brain with signal attenuation of gray matter. , 2010, , .		0
33	Effect of tube diameter on elongated bubble length in mini channels. , 2010, , .		0
34	Superhydrophobic Surfaces: Waterborne Fluorineâ€Free Superhydrophobic Surfaces Exhibiting Simultaneous CO₂ and Humidity Sorption (Adv. Mater. Interfaces 23/2019). Advanced Materials Interfaces, 2019, 6, 1970147.	1.9	0