

# Sarit Kumar Das

## List of Publications by Year in Descending Order

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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	Waterborne Fluorine-Free Superhydrophobic Surfaces Exhibiting Simultaneous CO <sub>2</sub> and Humidity Sorption. <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1901013	4.6	6
31	Superhydrophobic Surfaces: Waterborne Fluorine-Free Superhydrophobic Surfaces Exhibiting Simultaneous CO <sub>2</sub> and Humidity Sorption (Adv. Mater. Interfaces 23/2019). <i>Advanced Materials Interfaces</i> , <b>2019</b> , 6, 1970147	4.6	
30	Fabrication of a Waterborne Durable Superhydrophobic Material Functioning in Air and under Oil. <i>Advanced Materials Interfaces</i> , <b>2018</b> , 5, 1701523	4.6	16
29	An Aqueous Composition for Lubricant-Free, Robust, Slippery, Transparent Coatings on Diverse Substrates. <i>Global Challenges</i> , <b>2018</b> , 2, 1700097	4.3	3
28	Droplet ski-jumping on an inclined macro-textured superhydrophobic surface. <i>Applied Physics Letters</i> , <b>2018</b> , 113, 103702	3.4	12
27	Augmented Thermal Performance of Straight Heat Pipe Employing Annular Screen Mesh Wick and Surfactant Free Stable Aqueous Nanofluids. <i>Heat Transfer Engineering</i> , <b>2017</b> , 38, 217-226	1.7	4
26	Heat spreader with parallel microchannel configurations employing nanofluids for near-active cooling of MEMS. <i>International Journal of Heat and Mass Transfer</i> , <b>2017</b> , 111, 570-581	4.9	21
25	Wettability of Complex Fluids and Surfactant Capped Nanoparticle-Induced Quasi-Universal Wetting Behavior. <i>Journal of Physical Chemistry B</i> , <b>2017</b> , 121, 6081-6095	3.4	28
24	Organic Solvent-Free Fabrication of Durable and Multifunctional Superhydrophobic Paper from Waterborne Fluorinated Cellulose Nanofiber Building Blocks. <i>ACS Nano</i> , <b>2017</b> , 11, 11091-11099	16.7	120
23	Morphology of drop impact on a superhydrophobic surface with macro-structures. <i>Physics of Fluids</i> , <b>2017</b> , 29, 082104	4.4	35
22	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> , <b>2016</b> , 6, 1834-1846 <sup>8</sup>	1.7	8
21	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> , <b>2016</b> , 26, 461-476	4.5	4
20	Potential of Probabilistic Hydrometeorological Approach for Precipitation-Based Soil Moisture Estimation. <i>Journal of Hydrologic Engineering - ASCE</i> , <b>2015</b> , 20, 04014056	1.8	6
19	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> , <b>2015</b> , 3, 1155-1163	8.3	60
18	A hydrometeorological approach for probabilistic simulation of monthly soil moisture under bare and crop land conditions. <i>Water Resources Research</i> , <b>2015</b> , 51, 2336-2355	5.4	10
17	Investigation on Flow Maldistribution in Parallel Microchannel Systems for Integrated Microelectronic Device Cooling. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2014</b> , 4, 438-450	1.7	15
16	Anomalous subsurface thermal behavior in tissue mimics upon near infrared irradiation mediated photothermal therapy. <i>Journal of Biomedical Nanotechnology</i> , <b>2014</b> , 10, 405-14	4	6

15	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> , <b>2013</b> , 5,	1.9	11
14	Probabilistic simulation of surface soil moisture using hydrometeorological inputs. <i>ISH Journal of Hydraulic Engineering</i> , <b>2013</b> , 19, 227-234	1.5	3
13	Graphene from sugar and its application in water purification. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2012</b> , 4, 4156-63	9.5	171
12	A new segmentation technique for brain and head from high resolution MR image using unique histogram features <b>2010</b> ,		1
11	Brownian dynamic simulation for the prediction of effective thermal conductivity of nanofluid. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 767-773	2.3	38
10	Experimental studies on the effect of tube inclination on nucleate pool boiling. <i>Heat and Mass Transfer</i> , <b>2009</b> , 45, 1493-1502	2.2	19
9	The Performance Analysis of a Multi-Duct Proton Exchange Membrane Fuel Cell Cathode. <i>International Journal of Green Energy</i> , <b>2008</b> , 5, 35-54	3	22
8	A cell model approach for thermal conductivity of nanofluids. <i>Journal of Nanoparticle Research</i> , <b>2008</b> , 10, 87-97	2.3	41
7	Dynamics of plate heat exchangers subject to flow variations. <i>International Journal of Heat and Mass Transfer</i> , <b>2007</b> , 50, 2733-2743	4.9	36
6	Numerical simulation of effects of flow maldistribution on heat and mass transfer in a PEM fuel cell stack. <i>Heat and Mass Transfer</i> , <b>2007</b> , 43, 1037-1047	2.2	14
5	Heat Transfer in Nanofluids—A Review. <i>Heat Transfer Engineering</i> , <b>2006</b> , 27, 3-19	1.7	921
4	Temperature Dependence of Thermal Conductivity Enhancement for Nanofluids. <i>Journal of Heat Transfer</i> , <b>2003</b> , 125, 567-574	1.8	1723
3	Numerical simulation of laminar flow and heat transfer over banks of staggered cylinders. <i>International Journal for Numerical Methods in Fluids</i> , <b>2002</b> , 39, 23-40	1.9	19
2	Transient response of multipass plate heat exchangers with axial thermal dispersion in fluid. <i>International Journal of Heat and Mass Transfer</i> , <b>2000</b> , 43, 4327-4345	4.9	15
1	An efficient solution method for incompressible N-S equations using non-orthogonal collocated grid. <i>International Journal for Numerical Methods in Engineering</i> , <b>1999</b> , 45, 741-763	2.4	13