

Debjoyoti Banerjee

List of Publications by Year in descending order

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29
papers

774
citations

840728

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25
g-index

32
all docs

32
docs citations

32
times ranked

746
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhanced Specific Heat of Silica Nanofluid. Journal of Heat Transfer, 2011, 133, .	2.1	198
2	Pool Boiling Experiments on Multiwalled Carbon Nanotube (MWCNT) Forests. Journal of Heat Transfer, 2006, 128, 1335-1342.	2.1	123
3	Enhanced Specific Heat Capacity of Nanomaterials Synthesized by Dispersing Silica Nanoparticles in Eutectic Mixtures. Journal of Heat Transfer, 2013, 135, .	2.1	105
4	Pool Boiling Experiments on a Nano-Structured Surface. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 156-165.	1.3	72
5	Enhanced Specific Heat Capacity of Molten Salt-Based Carbon Nanotubes Nanomaterials. Journal of Heat Transfer, 2015, 137, .	2.1	56
6	Functional extensions of Dip Pen Nanolithography™: active probes and microfluidic ink delivery. Smart Materials and Structures, 2006, 15, S124-S130.	3.5	18
7	Investigation of High Temperature Nanofluids for Solar Thermal Power Conversion and Storage Applications. , 2010, , .		18
8	Experimental measurements of thermal conductivity of alumina nanofluid synthesized in salt melt. AIP Advances, 2017, 7, .	1.3	18
9	Effect of Dispersion Homogeneity on Specific Heat Capacity Enhancement of Molten Salt Nanomaterials Using Carbon Nanotubes. Journal of Solar Energy Engineering, Transactions of the ASME, 2015, 137, .	1.8	17
10	Synthesis and Characterization of Molten Salt Nanofluids for Thermal Energy Storage Application in Concentrated Solar Power Plantsâ€™ Mechanistic Understanding of Specific Heat Capacity Enhancement. Nanomaterials, 2020, 10, 2266.	4.1	17
11	Numerical simulation of flow and heat transfer in radially rotating microchannels. Microfluidics and Nanofluidics, 2013, 15, 397-413.	2.2	16
12	Experimental validation of numerical study on thermoelectric-based heating in an integrated centrifugal microfluidic platform for polymerase chain reaction amplification. Biomicrofluidics, 2013, 7, 14106.	2.4	12
13	Experimental Analysis of Salt Hydrate Latent Heat Thermal Energy Storage System With Porous Aluminum Fabric and Salt Hydrate as Phase Change Material With Enhanced Stability and Supercooling. Journal of Energy Resources Technology, Transactions of the ASME, 2021, 143, .	2.3	12
14	Modeling and Simulation of Capillary Microfluidic Networks Based on Electrical Analogies. Journal of Fluids Engineering, Transactions of the ASME, 2011, 133, .	1.5	10
15	A molecular dynamics approach of the role of carbon nanotube diameter on thermal interfacial resistance through vibrational mismatch analysis. International Journal of Thermal Sciences, 2017, 122, 33-38.	4.9	10
16	<i>In Situ</i> Synthesis of Carbon Nanotubes on Heated Scanning Probes Using Dip Pen Techniques. Scanning, 2008, 30, 151-158.	1.5	8
17	Study of High Temperature Nanofluids Using Carbon Nanotubes (CNT) for Solar Thermal Storage Applications. , 2010, , .		8
18	Study of a multi-phase hybrid heat exchanger-reactor (HEX reactor): Part II â€™ Numerical prediction of thermal performance. International Journal of Heat and Mass Transfer, 2014, 70, 1086-1094.	4.8	7

#	ARTICLE	IF	CITATIONS
19	Thermal Cycling of Calcium Chloride Hexahydrate With Strontium Chloride as a Phase Change Material for Latent Heat Thermal Energy Storage Applications in a Nondifferential Scanning Calorimeter Set-Up. <i>Journal of Thermal Science and Engineering Applications</i> , 2019, 11, .	1.5	7
20	Design and Electro-Thermo-Mechanical Behavior Analysis of Au/Si ₃ N ₄ Bimorph Microcantilevers for Static Mode Sensing. <i>Sensors</i> , 2017, 17, 2510.	3.8	5
21	Comparison of Model Predictions and Performance Test Data for a Prototype Thermal Energy Storage Module. <i>Journal of Energy Resources Technology, Transactions of the ASME</i> , 2021, 143, .	2.3	5
22	Machine Learning (ML) Based Thermal Management for Cooling of Electronics Chips by Utilizing Thermal Energy Storage (TES) in Packaging That Leverages Phase Change Materials (PCM). <i>Electronics (Switzerland)</i> , 2021, 10, 2785.	3.1	5
23	Numerical Modeling and Experimental Validation by Calorimetric Detection of Energetic Materials Using Thermal Bimorph Microcantilever Array: A Case Study on Sensing Vapors of Volatile Organic Compounds (VOCs). <i>Sensors</i> , 2015, 15, 21785-21806.	3.8	4
24	Experimental Measurement of Corrosion Involving Inorganics (Salt Hydrates) Phase Change Materials (PCM) for Thermal Energy Storage (TES) Applications. , 2018, , .		4
25	Experimental Measurement of the Effect of Particle Concentration on the Specific Heat Capacity of Silica Nanofluids. , 2018, , .		4
26	Packaging of Surface Micromachined Thin Film Thermocouples (TFT): Comparison of the Resistance Arc Microwelding Technique With Wire Bonding. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2009, 32, 252-260.	1.3	3
27	Estimation of Measurement Uncertainties for Thermal Conductivity of Nanofluids using Transient Plane Source (TPS) Technique. , 2018, , .		3
28	Lifshitz localizationâ€¢based reconfigurable photonic crystals. <i>Microwave and Optical Technology Letters</i> , 2011, 53, 2721-2724.	1.4	1
29	Experimental Validation of Thermal Performance of a Plate Heat Exchanger (PHX) with Phase Change Materials (PCM) for Thermal Energy Storage (TES). , 2018, , .		1