

Harish Sivasankaran

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.

48
papers

1,756
citations

25
h-index

41
g-index

53
ext. papers

2,058
ext. citations

4.9
avg, IF

5.2
L-index

#	Paper	IF	Citations
48	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. <i>Bulletin of the Chemical Society of Japan</i> , 2022 , 95, 73-103	5.1	3
47	Performance enhancement of hybrid solar PV/T system with graphene based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2022 , 130, 105794	5.8	6
46	Building Energy Harvesting Powered by Solar Thermal Energy. <i>Energy, Environment, and Sustainability</i> , 2021 , 177-195	0.8	
45	Novel technique for improving the water adsorption isotherms of metal-organic frameworks for performance enhancement of adsorption driven chillers. <i>Inorganica Chimica Acta</i> , 2020 , 501, 119313	2.7	18
44	Performance improvement in concentrated photovoltaics using nano-enhanced phase change material with graphene nanoplatelets. <i>Energy</i> , 2020 , 208, 118408	7.9	23
43	Enhanced heat transport behavior of micro channel heat sink with graphene based nanofluids. <i>International Communications in Heat and Mass Transfer</i> , 2020 , 117, 104716	5.8	27
42	Thermoelectric figure of merit enhancement in cement composites with graphene and transition metal oxides. <i>Materials Today Energy</i> , 2020 , 18, 100492	7	11
41	Constrained melting of graphene-based phase change nanocomposites inside a sphere. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020 , 139, 941-952	4.1	23
40	Enhanced figure of merit of cement composites with graphene and ZnO nanoinclusions for efficient energy harvesting in buildings. <i>Energy</i> , 2020 , 198, 117396	7.9	18
39	Solidification of Graphene-Assisted Phase Change Nanocomposites inside a Sphere for Cold Storage Applications. <i>Energies</i> , 2019 , 12, 3473	3.1	26
38	Experimental Investigation of Freezing and Melting Characteristics of Graphene-Based Phase Change Nanocomposite for Cold Thermal Energy Storage Applications. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1099	2.6	17
37	Transient performance of a Peltier super cooler under varied electric pulse conditions with phase change material. <i>Energy Conversion and Management</i> , 2019 , 198, 111822	10.6	20
36	Graphene enhanced thermoelectric properties of cement based composites for building energy harvesting. <i>Energy and Buildings</i> , 2019 , 202, 109419	7	36
35	An approach for quantitative analysis of pore size distribution of silica gel using atomic force microscopy. <i>International Journal of Refrigeration</i> , 2019 , 105, 72-79	3.8	5
34	On surface energy and acidBase properties of highly porous parent and surface treated activated carbons using inverse gas chromatography. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 432-443	6.3	18
33	Performance analysis of solar chimney using mathematical and experimental approaches. <i>International Journal of Energy Research</i> , 2018 , 42, 2373-2385	4.5	7
32	Gladiolus dalenii Based Bioinspired Structured Surface via Soft Lithography and Its Application in Water Vapor Condensation and Fog Harvesting. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6981-6993	8.2	35

31	Evaporation kinetics of pure water drops: Thermal patterns, Marangoni flow, and interfacial temperature difference. <i>Physical Review E</i> , 2018 , 98,	2.4	21
30	Heat transport and pressure drop characteristics of ethylene Glycol-based Nano fluid containing silver nanoparticles. <i>IOP Conference Series: Materials Science and Engineering</i> , 2018 , 402, 012005	0.4	1
29	Convective heat transfer behaviour of water-ethylene glycol-mixture with silver nanoparticles under laminar flow conditions. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 2191-2199	1.6	3
28	Role of Nitrogen Precursor on the Activity Descriptor towards Oxygen Reduction Reaction in Iron-Based Catalysts. <i>ChemistrySelect</i> , 2018 , 3, 6542-6550	1.8	8
27	Effective thermal conductivity and rheological characteristics of ethylene glycol-based nanofluids with single-walled carbon nanohorn inclusions. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2017 , 25, 86-93	1.8	26
26	Enhanced heat transfer performance of an automobile radiator with graphene based suspensions. <i>Applied Thermal Engineering</i> , 2017 , 123, 50-60	5.8	59
25	Effect of carbon nano inclusion dimensionality on the melting of phase change nanocomposites in vertical shell-tube thermal energy storage unit. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 113, 423-431	4.9	35
24	Thermal conductivity and specific heat capacity of water-ethylene glycol mixture-based nanofluids with graphene nanoplatelets. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017 , 129, 947-955	4.1	50
23	Overall heat transfer coefficient improvement of an automobile radiator with graphene based suspensions. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 115, 580-588	4.9	54
22	Enhanced melting behavior of carbon based phase change nanocomposites in horizontally oriented latent heat thermal energy storage system. <i>Applied Thermal Engineering</i> , 2017 , 125, 880-890	5.8	26
21	Enhanced thermal conductivity of phase change nanocomposite in solid and liquid state with various carbon nano inclusions. <i>Applied Thermal Engineering</i> , 2017 , 114, 1240-1246	5.8	41
20	Convective heat transfer coefficient and pressure drop of water-ethylene glycol mixture with graphene nanoplatelets. <i>Experimental Thermal and Fluid Science</i> , 2017 , 80, 67-76	3	32
19	Melting of graphene based phase change nanocomposites in vertical latent heat thermal energy storage unit. <i>Applied Thermal Engineering</i> , 2016 , 107, 101-113	5.8	25
18	Convective heat transfer characteristics of water-ethylene glycol mixture with silver nanoparticles. <i>Experimental Thermal and Fluid Science</i> , 2016 , 77, 188-196	3	17
17	Thermophysical properties of ethylene glycol-water mixture containing silver nanoparticles. <i>Journal of Mechanical Science and Technology</i> , 2016 , 30, 1271-1279	1.6	20
16	Thermal conductivity enhancement of ethylene glycol and water with graphene nanoplatelets. <i>Thermochimica Acta</i> , 2016 , 642, 32-38	2.9	62
15	Thermal conductivity enhancement of lauric acid phase change nanocomposite in solid and liquid state with single-walled carbon nanohorn inclusions. <i>Thermochimica Acta</i> , 2015 , 600, 1-6	2.9	51
14	Thermal conductivity enhancement of lauric acid phase change nanocomposite with graphene nanoplatelets. <i>Applied Thermal Engineering</i> , 2015 , 80, 205-211	5.8	160

13	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. <i>Nanoscale Research Letters</i> , 2014 , 9, 326	5	18
12	Anomalous Thermal Conduction Characteristics of Phase Change Composites with Single-Walled Carbon Nanotube Inclusions. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 15409-15413	3.8	65
11	Tunable electrical and thermal transport in ice-templated multilayer graphene nanocomposites through freezing rate control. <i>ACS Nano</i> , 2013 , 7, 11183-9	16.7	62
10	Carbon atoms in ethanol do not contribute equally to formation of single-walled carbon nanotubes. <i>ACS Nano</i> , 2013 , 7, 3095-103	16.7	39
9	Diameter-controlled and nitrogen-doped vertically aligned single-walled carbon nanotubes. <i>Carbon</i> , 2012 , 50, 2635-2640	10.4	53
8	Enhanced thermal conductivity of ethylene glycol with single-walled carbon nanotube inclusions. <i>International Journal of Heat and Mass Transfer</i> , 2012 , 55, 3885-3890	4.9	105
7	Temperature Dependent Thermal Conductivity Increase of Aqueous Nanofluid with Single Walled Carbon Nanotube Inclusion. <i>Materials Express</i> , 2012 , 2, 213-223	1.3	48
6	Experimental Investigation on Pressure Drop and Heat Transfer Characteristics of Copper Metal Foam Heat Sink. <i>Experimental Heat Transfer</i> , 2010 , 23, 185-195	2.4	15
5	Experimental analysis of parallel plate and crosscut pin fin heat sinks for electronic cooling applications. <i>Thermal Science</i> , 2010 , 14, 147-156	1.2	3
4	Mechanical property evaluation of natural fiber coir composite. <i>Materials Characterization</i> , 2009 , 60, 44-49	3.9	264
3	Microstructural study of cryogenically treated En 31 bearing steel. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 3351-3357	5.3	55
2	Fatigue behaviour and fracture mechanism of cryogenically treated En 353 steel. <i>Materials & Design</i> , 2009 , 30, 2955-2962		35
1	Experimental performance of a mobile air conditioning unit with small thermal energy storage for idle stop/start vehicles. <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	6