

Sivasankaran Harish

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.

48
papers

1,707
citations

24
h-index

41
g-index

50
ext. papers

1,992
ext. citations

4.8
avg, IF

5.22
L-index

#	Paper	IF	Citations
48	Mechanical property evaluation of natural fiber coir composite. <i>Materials Characterization</i> , 2009 , 60, 44-49	3.9	264
47	Thermal conductivity enhancement of lauric acid phase change nanocomposite with graphene nanoplatelets. <i>Applied Thermal Engineering</i> , 2015 , 80, 205-211	5.8	160
46	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
45	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
44	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
43	Thermal conductivity enhancement of ethylene glycol and water with graphene nanoplatelets. <i>Thermochimica Acta</i> , 2016 , 642, 32-38	2.9	62
42	Enhanced heat transfer performance of an automobile radiator with graphene based suspensions. <i>Applied Thermal Engineering</i> , 2017 , 123, 50-60	5.8	59
41	Microstructural study of cryogenically treated En 31 bearing steel. <i>Journal of Materials Processing Technology</i> , 2009 , 209, 3351-3357	5.3	55
40	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
39	Diameter-controlled and nitrogen-doped vertically aligned single-walled carbon nanotubes. <i>Carbon</i> , 2012 , 50, 2635-2640	10.4	53
38	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
37	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
36	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
35	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
34	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
33	Graphene enhanced thermoelectric properties of cement based composites for building energy harvesting. <i>Energy and Buildings</i> , 2019 , 202, 109419	7	36
32	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

31	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 ^{8,3} ³⁵		
30	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
29	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
28	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
27	Solidification of Graphene-Assisted Phase Change Nanocomposites inside a Sphere for Cold Storage Applications. <i>Energies</i> , 2019 , 12, 3473	3.1	26
26	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
25	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
24	Performance improvement in concentrated photovoltaics using nano-enhanced phase change material with graphene nanoplatelets. <i>Energy</i> , 2020 , 208, 118408	7.9	23
23	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
22	Evaporation kinetics of pure water drops: Thermal patterns, Marangoni flow, and interfacial temperature difference. <i>Physical Review E</i> , 2018 , 98,	2.4	21
21	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
20	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
19	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. <i>Nanoscale Research Letters</i> , 2014 , 9, 326	5	18
18	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
17	On surface energy and acid-base 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
16	Enhanced figure of merit of cement composites with graphene and ZnO nano inclusions for efficient energy harvesting in buildings. <i>Energy</i> , 2020 , 198, 117396	7.9	18
15	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
14	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

13	Thermoelectric figure of merit enhancement in cement composites with graphene and transition metal oxides. <i>Materials Today Energy</i> , 2020 , 18, 100492	7	11
12	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
11	Performance analysis of solar chimney using mathematical and experimental approaches. <i>International Journal of Energy Research</i> , 2018 , 42, 2373-2385	4.5	7
10	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
9	Tensile, impact, and mode-I behaviour of glass fiber-reinforced polymer composite modified by graphene nanoplatelets. <i>Archives of Civil and Mechanical Engineering</i> , 2020 , 20, 1	3.4	6
8	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
7	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
6	On the Influence of the Functionalization of Graphene Nanoplatelets and Glass Fiber on the Mechanical Properties of GFRP Composites. <i>Applied Composite Materials</i> , 2021 , 28, 1127-1152	2	3
5	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
4	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
3	Thermal Conductivity Reduction of Bulk GaAs using Giant Strain. <i>The Proceedings of the Thermal Engineering Conference</i> , 2018 , 2018, 0176	0	
2	Selected Papers from the 5th International Conference on Polygeneration (ICP 2019). <i>Heat Transfer Engineering</i> , 2021 , 42, 1067-1068	1.7	
1	Building Energy Harvesting Powered by Solar Thermal Energy. <i>Energy, Environment, and Sustainability</i> , 2021 , 177-195	0.8	