Harish Sivasankaran

List of Publications by Citations

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	Mechanical property evaluation of natural fiber coir composite. *Materials Characterization*, **2009**, 60, 44-49	3.9	264
47	Thermal conductivity enhancement of lauric acid phase change nanocomposite with graphene nanoplatelets. *Applied Thermal Engineering*, **2015**, 80, 205-211	5.8	160
46	Enhanced thermal conductivity of ethylene glycol with single-walled carbon nanotube inclusions. *International Journal of Heat and Mass Transfer*, **2012**, 55, 3885-3890	4.9	105
45	Anomalous Thermal Conduction Characteristics of Phase Change Composites with Single-Walled Carbon Nanotube Inclusions. *Journal of Physical Chemistry C*, **2013**, 117, 15409-15413	3.8	65
44	Tunable electrical and thermal transport in ice-templated multilayer graphene nanocomposites through freezing rate control. *ACS Nano*, **2013**, 7, 11183-9	16.7	62
43	Thermal conductivity enhancement of ethylene glycol and water with graphene nanoplatelets. *Thermochimica Acta*, **2016**, 642, 32-38	2.9	62
42	Enhanced heat transfer performance of an automobile radiator with graphene based suspensions. *Applied Thermal Engineering*, **2017**, 123, 50-60	5.8	59
41	Microstructural study of cryogenically treated En 31 bearing steel. *Journal of Materials Processing Technology*, **2009**, 209, 3351-3357	5.3	55
40	Overall heat transfer coefficient improvement of an automobile radiator with graphene based suspensions. *International Journal of Heat and Mass Transfer*, **2017**, 115, 580-588	4.9	54
39	Diameter-controlled and nitrogen-doped vertically aligned single-walled carbon nanotubes. *Carbon*, **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. *Thermochimica Acta*, **2015**, 600, 1-6	2.9	51
37	Thermal conductivity and specific heat capacity of water–ethylene glycol mixture-based nanofluids with graphene nanoplatelets. *Journal of Thermal Analysis and Calorimetry*, **2017**, 129, 947-955	4.1	50
36	Temperature Dependent Thermal Conductivity Increase of Aqueous Nanofluid with Single Walled Carbon Nanotube Inclusion. *Materials Express*, **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. *Applied Thermal Engineering*, **2017**, 114, 1240-1246	5.8	41
34	Carbon atoms in ethanol do not contribute equally to formation of single-walled carbon nanotubes. *ACS Nano*, **2013**, 7, 3095-103	16.7	39
33	Graphene enhanced thermoelectric properties of cement based composites for building energy harvesting. *Energy and Buildings*, **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. *International Journal of Heat and Mass Transfer*, **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. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 6981-6993	8.3	35
30	Fatigue behaviour and fracture mechanism of cryogenically treated En 353 steel. *Materials & Design* , **2009**, 30, 2955-2962		35
29	Convective heat transfer coefficient and pressure drop of water-ethylene glycol mixture with graphene nanoplatelets. *Experimental Thermal and Fluid Science*, **2017**, 80, 67-76	3	32
28	Enhanced heat transport behavior of micro channel heat sink with graphene based nanofluids. *International Communications in Heat and Mass Transfer*, **2020**, 117, 104716	5.8	27
27	Effective thermal conductivity and rheological characteristics of ethylene glycol-based nanofluids with single-walled carbon nanohorn inclusions. *Fullerenes Nanotubes and Carbon Nanostructures*, **2017**, 25, 86-93	1.8	26
26	Solidification of Graphene-Assisted Phase Change Nanocomposites inside a Sphere for Cold Storage Applications. *Energies*, **2019**, 12, 3473	3.1	26
25	Enhanced melting behavior of carbon based phase change nanocomposites in horizontally oriented latent heat thermal energy storage system. *Applied Thermal Engineering*, **2017**, 125, 880-890	5.8	26
24	Melting of graphene based phase change nanocomposites in vertical latent heat thermal energy storage unit. *Applied Thermal Engineering*, **2016**, 107, 101-113	5.8	25
23	Performance improvement in concentrated photovoltaics using nano-enhanced phase change material with graphene nanoplatelets. *Energy*, **2020**, 208, 118408	7.9	23
22	Constrained melting of graphene-based phase change nanocomposites inside a sphere. *Journal of Thermal Analysis and Calorimetry*, **2020**, 139, 941-952	4.1	23
21	Evaporation kinetics of pure water drops: Thermal patterns, Marangoni flow, and interfacial temperature difference. *Physical Review E*, **2018**, 98,	2.4	21
20	Transient performance of a Peltier super cooler under varied electric pulse conditions with phase change material. *Energy Conversion and Management*, **2019**, 198, 111822	10.6	20
19	Thermophysical properties of ethylene glycol-water mixture containing silver nanoparticles. *Journal of Mechanical Science and Technology*, **2016**, 30, 1271-1279	1.6	20
18	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. *Nanoscale Research Letters*, **2014**, 9, 326	5	18
17	Novel technique for improving the water adsorption isotherms of metal-organic frameworks for performance enhancement of adsorption driven chillers. *Inorganica Chimica Acta*, **2020**, 501, 119313	2.7	18
16	On surface energy and acid–base properties of highly porous parent and surface treated activated carbons using inverse gas chromatography. *Journal of Industrial and Engineering Chemistry*, **2019**, 69, 432-443	6.3	18
15	Enhanced figure of merit of cement composites with graphene and ZnO nanoinclusions for efficient energy harvesting in buildings. *Energy*, **2020**, 198, 117396	7.9	18
14	Experimental Investigation of Freezing and Melting Characteristics of Graphene-Based Phase Change Nanocomposite for Cold Thermal Energy Storage Applications. *Applied Sciences (Switzerland)*, **2019**, 9, 1099	2.6	17

13	Convective heat transfer characteristics of water-ethylene glycol mixture with silver nanoparticles. *Experimental Thermal and Fluid Science*, **2016**, 77, 188-196	3	17
12	Experimental Investigation on Pressure Drop and Heat Transfer Characteristics of Copper Metal Foam Heat Sink. *Experimental Heat Transfer*, **2010**, 23, 185-195	2.4	15
11	Thermoelectric figure of merit enhancement in cement composites with graphene and transition metal oxides. *Materials Today Energy*, **2020**, 18, 100492	7	11
10	Role of Nitrogen Precursor on the Activity Descriptor towards Oxygen Reduction Reaction in Iron-Based Catalysts. *ChemistrySelect*, **2018**, 3, 6542-6550	1.8	8
9	Performance analysis of solar chimney using mathematical and experimental approaches. *International Journal of Energy Research*, **2018**, 42, 2373-2385	4.5	7
8	Performance enhancement of hybrid solar PV/T system with graphene based nanofluids. *International Communications in Heat and Mass Transfer*, **2022**, 130, 105794	5.8	6
7	Experimental performance of a mobile air conditioning unit with small thermal energy storage for idle stop/start vehicles. *Journal of Thermal Analysis and Calorimetry*,1	4.1	6
6	An approach for quantitative analysis of pore size distribution of silica gel using atomic force microscopy. *International Journal of Refrigeration*, **2019**, 105, 72-79	3.8	5
5	Achieving a Carbon Neutral Future through Advanced Functional Materials and Technologies. *Bulletin of the Chemical Society of Japan*, **2022**, 95, 73-103	5.1	3
4	Experimental analysis of parallel plate and crosscut pin fin heat sinks for electronic cooling applications. *Thermal Science*, **2010**, 14, 147-156	1.2	3
3	Convective heat transfer behaviour of water-ethylene glycol-mixture with silver nanoparticles under laminar flow conditions. *Journal of Mechanical Science and Technology*, **2018**, 32, 2191-2199	1.6	3
2	Heat transport and pressure drop characteristics of ethylene Glycol-based Nano fluid containing silver nanoparticles. *IOP Conference Series: Materials Science and Engineering*, **2018**, 402, 012005	0.4	1
1	Building Energy Harvesting Powered by Solar Thermal Energy. *Energy, Environment, and Sustainability*, **2021**, 177-195	0.8	