Sivasankaran Harish

List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	2,329 citations	172207 29 h-index	223531 46 g-index
50 all docs	50 docs citations	50 times ranked	2428 citing authors

#	Article	IF	Citations
1	Experimental performance of a mobile air conditioning unit with small thermal energy storage for idle stop/start vehicles. Journal of Thermal Analysis and Calorimetry, 2022, 147, 5117-5132.	2.0	13
2	Performance enhancement of hybrid solar PV/T system with graphene based nanofluids. International Communications in Heat and Mass Transfer, 2022, 130, 105794.	2.9	27
3	Selected Papers from the 5th International Conference on Polygeneration (ICP 2019). Heat Transfer Engineering, 2021, 42, 1067-1068.	1.2	0
4	On the Influence of the Functionalization of Graphene Nanoplatelets and Glass Fiber on the Mechanical Properties of GFRP Composites. Applied Composite Materials, 2021, 28, 1127-1152.	1.3	10
5	Constrained melting of graphene-based phase change nanocomposites inside a sphere. Journal of Thermal Analysis and Calorimetry, 2020, 139, 941-952.	2.0	39
6	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.	1.2	30
7	Performance improvement in concentrated photovoltaics using nano-enhanced phase change material with graphene nanoplatelets. Energy, 2020, 208, 118408.	4.5	57
8	Enhanced heat transport behavior of micro channel heat sink with graphene based nanofluids. International Communications in Heat and Mass Transfer, 2020, 117, 104716.	2.9	45
9	Tensile, impact, and mode-I behaviour of glass fiber-reinforced polymer composite modified by graphene nanoplatelets. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	1.9	14
10	Thermoelectric figure of merit enhancement in cement composites with graphene and transition metal oxides. Materials Today Energy, 2020, 18, 100492.	2.5	27
11	Enhanced figure of merit of cement composites with graphene and ZnO nanoinclusions for efficient energy harvesting in buildings. Energy, 2020, 198, 117396.	4.5	40
12	Transient performance of a Peltier super cooler under varied electric pulse conditions with phase change material. Energy Conversion and Management, 2019, 198, 111822.	4.4	30
13	Graphene enhanced thermoelectric properties of cement based composites for building energy harvesting. Energy and Buildings, 2019, 202, 109419.	3.1	63
14	Solidification of Graphene-Assisted Phase Change Nanocomposites inside a Sphere for Cold Storage Applications. Energies, 2019, 12, 3473.	1.6	35
15	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.	1.3	23
16	An approach for quantitative analysis of pore size distribution of silica gel using atomic force microscopy. International Journal of Refrigeration, 2019, 105, 72-79.	1.8	5
17	On surface energy and acidâ€"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.	2.9	26
18	Performance analysis of solar chimney using mathematical and experimental approaches. International Journal of Energy Research, 2018, 42, 2373-2385.	2.2	11

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19	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.	3.2	52
20	Evaporation kinetics of pure water drops: Thermal patterns, Marangoni flow, and interfacial temperature difference. Physical Review E, 2018, 98, .	0.8	40
21	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.	0.3	2
22	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.	0.7	5
23	Role of Nitrogen Precursor on the Activity Descriptor towards Oxygen Reduction Reaction in Ironâ€Based Catalysts. ChemistrySelect, 2018, 3, 6542-6550.	0.7	9
24	Thermal Conductivity Reduction of Bulk GaAs using Giant Strain. The Proceedings of the Thermal Engineering Conference, 2018, 2018, 0176.	0.0	0
25	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.	1.0	30
26	Enhanced heat transfer performance of an automobile radiator with graphene based suspensions. Applied Thermal Engineering, 2017, 123, 50-60.	3.0	86
27	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.	2.5	45
28	Thermal conductivity and specific heat capacity of waterâ€"ethylene glycol mixture-based nanofluids with graphene nanoplatelets. Journal of Thermal Analysis and Calorimetry, 2017, 129, 947-955.	2.0	71
29	Overall heat transfer coefficient improvement of an automobile radiator with graphene based suspensions. International Journal of Heat and Mass Transfer, 2017, 115, 580-588.	2.5	72
30	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.	3.0	42
31	Enhanced thermal conductivity of phase change nanocomposite in solid and liquid state with various carbon nano inclusions. Applied Thermal Engineering, 2017, 114, 1240-1246.	3.0	57
32	Convective heat transfer coefficient and pressure drop of water-ethylene glycol mixture with graphene nanoplatelets. Experimental Thermal and Fluid Science, 2017, 80, 67-76.	1.5	47
33	Melting of graphene based phase change nanocomposites in vertical latent heat thermal energy storage unit. Applied Thermal Engineering, 2016, 107, 101-113.	3.0	43
34	Convective heat transfer characteristics of waterâ€"ethylene glycol mixture with silver nanoparticles. Experimental Thermal and Fluid Science, 2016, 77, 188-196.	1.5	24
35	Thermophysical properties of ethylene glycol-water mixture containing silver nanoparticles. Journal of Mechanical Science and Technology, 2016, 30, 1271-1279.	0.7	32
36	Thermal conductivity enhancement of ethylene glycol and water with graphene nanoplatelets. Thermochimica Acta, 2016, 642, 32-38.	1.2	90

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37	Thermal conductivity enhancement of lauric acid phase change nanocomposite with graphene nanoplatelets. Applied Thermal Engineering, 2015, 80, 205-211.	3.0	195
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.	1.2	60
39	Thermal conductivity reduction of crystalline silicon by high-pressure torsion. Nanoscale Research Letters, 2014, 9, 326.	3.1	23
40	Anomalous Thermal Conduction Characteristics of Phase Change Composites with Single-Walled Carbon Nanotube Inclusions. Journal of Physical Chemistry C, 2013, 117, 15409-15413.	1.5	74
41	Tunable Electrical and Thermal Transport in Ice-Templated Multilayer Graphene Nanocomposites through Freezing Rate Control. ACS Nano, 2013, 7, 11183-11189.	7.3	65
42	Carbon Atoms in Ethanol Do Not Contribute Equally to Formation of Single-Walled Carbon Nanotubes. ACS Nano, 2013, 7, 3095-3103.	7.3	43
43	Temperature Dependent Thermal Conductivity Increase of Aqueous Nanofluid with Single Walled Carbon Nanotube Inclusion. Materials Express, 2012, 2, 213-223.	0.2	59
44	Diameter-controlled and nitrogen-doped vertically aligned single-walled carbon nanotubes. Carbon, 2012, 50, 2635-2640.	5.4	58
45	Enhanced thermal conductivity of ethylene glycol with single-walled carbon nanotube inclusions. International Journal of Heat and Mass Transfer, 2012, 55, 3885-3890.	2.5	122
46	Mechanical property evaluation of natural fiber coir composite. Materials Characterization, 2009, 60, 44-49.	1.9	316
47	Microstructural study of cryogenically treated En 31 bearing steel. Journal of Materials Processing Technology, 2009, 209, 3351-3357.	3.1	70