

Harikrishnan Santhanam

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

1,240
citations

516215

16
h-index

580395

25
g-index

25
all docs

25
docs citations

25
times ranked

1163
citing authors

#	ARTICLE	IF	CITATIONS
1	Sustainable thermal energy storage technologies for buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012, 16, 2394-2433.	8.2	254
2	Preparation and thermal characteristics of CuO-oleic acid nanofluids as a phase change material. <i>Thermochimica Acta</i> , 2012, 533, 46-55.	1.2	172
3	Preparation and thermal energy storage behaviour of stearic acid-TiO ₂ nanofluids as a phase change material for solar heating systems. <i>Thermochimica Acta</i> , 2013, 565, 137-145.	1.2	129
4	Analytical and experimental investigations of nanoparticles embedded phase change materials for cooling application in modern buildings. <i>Renewable Energy</i> , 2012, 39, 375-387.	4.3	107
5	Experimental investigation of solidification and melting characteristics of composite PCMs for building heating application. <i>Energy Conversion and Management</i> , 2014, 86, 864-872.	4.4	83
6	Energy efficient PCM-based variable air volume air conditioning system for modern buildings. <i>Energy and Buildings</i> , 2010, 42, 1353-1360.	3.1	72
7	Improved performance of a newly prepared nano-enhanced phase change material for solar energy storage. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 4903-4910.	0.7	66
8	Thermal energy storage behavior of composite using hybrid nanomaterials as PCM for solar heating systems. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014, 115, 1563-1571.	2.0	47
9	Review on Heat Transfer Enhancement of Phase Change Materials (PCMs). <i>Materials Today: Proceedings</i> , 2018, 5, 14423-14431.	0.9	47
10	A Review on Factors Influencing the Mismatch Losses in Solar Photovoltaic System. <i>International Journal of Photoenergy</i> , 2022, 2022, 1-27.	1.4	32
11	Preparation and Thermophysical Properties of Water-Glycerol Mixture-Based CuO Nanofluids as PCM for Cooling Applications. <i>IEEE Nanotechnology Magazine</i> , 2013, 12, 629-635.	1.1	31
12	Experimental investigation on the effectiveness of MHTHS using different metal oxide-based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1251-1260.	2.0	25
13	Preparation and thermal characteristics of caprylic acid based composite as phase change material for thermal energy storage. <i>Materials Research Express</i> , 2019, 6, 105051.	0.8	21
14	Experimental Investigation of Improved Thermal Characteristics of SiO ₂ /myristic acid Nanofluid as Phase Change Material (PCM). <i>Materials Today: Proceedings</i> , 2019, 9, 397-409.	0.9	20
15	Improved thermal energy storage behavior of a novel nanofluid as phase change material (PCM). <i>Materials Today: Proceedings</i> , 2019, 9, 410-421.	0.9	20
16	Improved thermal characteristics of Ag nanoparticles dispersed myristic acid as composite for low temperature thermal energy storage. <i>Materials Research Express</i> , 2019, 6, 085066.	0.8	17
17	The effects of nano-additives on exhaust emissions and toxicity on mankind. <i>Materials Today: Proceedings</i> , 2020, 22, 1181-1185.	0.9	17
18	Improved Thermal Energy Storage Behavior of CuO/Palmitic acid Composite as Phase Change Material. <i>Materials Today: Proceedings</i> , 2018, 5, 14618-14627.	0.9	15

#	ARTICLE	IF	CITATIONS
19	Improved Performance of Composite Phase Change Material for Thermal Energy Storage. Materials Today: Proceedings, 2018, 5, 14215-14224.	0.9	14
20	Experimental investigation of parallel type -evacuated tube solar collector using nanofluids. Energy Sources, Part A: Recovery, Utilization and Environmental Effects, 2020, , 1-13.	1.2	11
21	The Enhanced Energy Density of rGO/TiO ₂ Based Nanocomposite as Electrode Material for Supercapacitor. Electronics (Switzerland), 2022, 11, 1792.	1.8	11
22	Machinability Studies on CNC Turning of PH Stainless Steel with Coated Inserts. Materials Today: Proceedings, 2018, 5, 14520-14525.	0.9	8
23	Experimental Investigation of Improved Thermal Characteristics of Al ₂ O ₃ /Barium Hydroxide Octa Hydrate as Phase Change Materials (PCMs). Materials Today: Proceedings, 2018, 5, 14440-14447.	0.9	7
24	Preparation and enhanced capacitive behavior of Ni-ZnO nanocomposite as electrode for supercapacitor. Materials Today: Proceedings, 2019, 9, 361-370.	0.9	7
25	Experimental investigation on the heat transfer performance of MHTHS using ethylene glycol-based nanofluids. Journal of Thermal Analysis and Calorimetry, 2021, 143, 61-71.	2.0	7