

Harikrishnan Santhanam

List of Publications by Citations

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24
papers

918
citations

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h-index

25
g-index

25
ext. papers

1,065
ext. citations

3.4
avg, IF

4.76
L-index

#	Paper	IF	Citations
24	Sustainable thermal energy storage technologies for buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2394-2433	16.2	212
23	Preparation and thermal characteristics of CuO/oleic acid nanofluids as a phase change material. <i>Thermochimica Acta</i> , 2012 , 533, 46-55	2.9	134
22	Preparation and thermal energy storage behaviour of stearic acid/SiO ₂ nanofluids as a phase change material for solar heating systems. <i>Thermochimica Acta</i> , 2013 , 565, 137-145	2.9	96
21	Analytical and experimental investigations of nanoparticles embedded phase change materials for cooling application in modern buildings. <i>Renewable Energy</i> , 2012 , 39, 375-387	8.1	91
20	Energy efficient PCM-based variable air volume air conditioning system for modern buildings. <i>Energy and Buildings</i> , 2010 , 42, 1353-1360	7	62
19	Experimental investigation of solidification and melting characteristics of composite PCMs for building heating application. <i>Energy Conversion and Management</i> , 2014 , 86, 864-872	10.6	61
18	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	1.6	41
17	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	4.1	34
16	Review on Heat Transfer Enhancement of Phase Change Materials (PCMs). <i>Materials Today: Proceedings</i> , 2018 , 5, 14423-14431	1.4	32
15	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	2.6	27
14	Improved thermal energy storage behavior of a novel nanofluid as phase change material (PCM). <i>Materials Today: Proceedings</i> , 2019 , 9, 410-421	1.4	16
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	1.7	15
12	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	1.7	14
11	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	1.4	14
10	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	4.1	14
9	Improved Performance of Composite Phase Change Material for Thermal Energy Storage. <i>Materials Today: Proceedings</i> , 2018 , 5, 14215-14224	1.4	12
8	Improved Thermal Energy Storage Behavior of CuO/Palmitic acid Composite as Phase Change Material. <i>Materials Today: Proceedings</i> , 2018 , 5, 14618-14627	1.4	10

7	The effects of nano-additives on exhaust emissions and toxicity on mankind. <i>Materials Today: Proceedings</i> , 2020 , 22, 1181-1185	1.4	7
6	Experimental investigation of parallel type -evacuated tube solar collector using nanofluids. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 2020 , 1-13	1.6	6
5	Machinability Studies on CNC Turning of PH Stainless Steel with Coated Inserts. <i>Materials Today: Proceedings</i> , 2018 , 5, 14520-14525	1.4	6
4	Experimental Investigation of Improved Thermal Characteristics of Al ₂ O ₃ /Barium Hydroxide Octa Hydrate as Phase Change Materials (PCMs). <i>Materials Today: Proceedings</i> , 2018 , 5, 14440-14447	1.4	6
3	Preparation and enhanced capacitive behavior of Ni-ZnO nanocomposite as electrode for supercapacitor. <i>Materials Today: Proceedings</i> , 2019 , 9, 361-370	1.4	4
2	Experimental investigation on the heat transfer performance of MHTHS using ethylene glycol-based nanofluids. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021 , 143, 61-71	4.1	2
1	A Review on Factors Influencing the Mismatch Losses in Solar Photovoltaic System. <i>International Journal of Photoenergy</i> , 2022 , 2022, 1-27	2.1	1