

Parameshwaran

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.

52
papers

1,318
citations

15
h-index

36
g-index

56
ext. papers

1,514
ext. citations

4.2
avg. IF

5.18
L-index

#	Paper	IF	Citations
52	Experimental investigation on convective heat transfer and rheological characteristics of Cu TiO_2 hybrid nanofluids. <i>Experimental Thermal and Fluid Science</i> , 2014 , 52, 104-115	3	248
51	Sustainable thermal energy storage technologies for buildings: A review. <i>Renewable and Sustainable Energy Reviews</i> , 2012 , 16, 2394-2433	16.2	212
50	PCM-mortar based construction materials for energy efficient buildings: A review on research trends. <i>Energy and Buildings</i> , 2018 , 158, 95-122	7	99
49	Study on thermal properties of organic ester phase-change material embedded with silver nanoparticles. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013 , 114, 845-858	4.1	96
48	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
47	Preparation, thermal and rheological properties of hybrid nanocomposite phase change material for thermal energy storage. <i>Applied Energy</i> , 2014 , 115, 320-330	10.7	74
46	Energy conservative air conditioning system using silver nano-based PCM thermal storage for modern buildings. <i>Energy and Buildings</i> , 2014 , 69, 202-212	7	62
45	Energy efficient PCM-based variable air volume air conditioning system for modern buildings. <i>Energy and Buildings</i> , 2010 , 42, 1353-1360	7	62
44	Green synthesis of silver nanoparticles using <i>Beta vulgaris</i> : Role of process conditions on size distribution and surface structure. <i>Materials Chemistry and Physics</i> , 2013 , 140, 135-147	4.4	43
43	Energy efficient hybrid nanocomposite-based cool thermal storage air conditioning system for sustainable buildings. <i>Energy</i> , 2013 , 59, 194-214	7.9	41
42	Experimental and numerical investigation of phase change materials with finned encapsulation for energy-efficient buildings. <i>Journal of Building Performance Simulation</i> , 2010 , 3, 245-254	2.8	34
41	Energy conservative building air conditioning system controlled and optimized using fuzzy-genetic algorithm. <i>Energy and Buildings</i> , 2010 , 42, 745-762	7	34
40	Study on thermal storage properties of hybrid nanocomposite-dibasic ester as phase change material. <i>Thermochimica Acta</i> , 2013 , 573, 106-120	2.9	24
39	Performance evaluation of a combined variable refrigerant volume and cool thermal energy storage system for air conditioning applications. <i>International Journal of Refrigeration</i> , 2017 , 76, 271-295 ^{3.8}		21
38	Preparation and characterization of hybrid nanocomposite embedded organic methyl ester as phase change material. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 171, 148-160	6.4	17
37	Microencapsulated phase change material suspensions for cool thermal energy storage. <i>Materials Chemistry and Physics</i> , 2020 , 242, 122519	4.4	15
36	Facile synthesis of microencapsulated 1-dodecanol/melamine-formaldehyde phase change material using in-situ polymerization for thermal energy storage. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 610, 125698	5.1	15

35	Fluid-structure Interactions and Flow Induced Vibrations: A Review. <i>Procedia Engineering</i> , 2016 , 144, 1286-1293		12
34	Experimental Studies on Convective Heat Transfer and Pressure Drop Characteristics of Metal and Metal Oxide Nanofluids Under Turbulent Flow Regime. <i>Heat Transfer Engineering</i> , 2016 , 37, 422-434	1.7	11
33	Effect of aggregation on thermal conductivity and heat transfer in hybrid nanocomposite phase change colloidal suspensions. <i>Applied Physics Letters</i> , 2013 , 103, 193113	3.4	11
32	Study on thermal energy storage properties of organic phase change material for waste heat recovery applications. <i>Materials Today: Proceedings</i> , 2018 , 5, 16840-16848	1.4	11
31	Microencapsulated phase change materials as slurries for thermal energy storage: A review. <i>Materials Today: Proceedings</i> , 2021 , 44, 1960-1963	1.4	9
30	Role of polysiloxanes in the synthesis of aligned porous silicon oxycarbide ceramics. <i>Ceramics International</i> , 2019 , 45, 8150-8156	5.1	8
29	Microencapsulated bio-based phase change material-micro concrete composite for thermal energy storage. <i>Journal of Building Engineering</i> , 2021 , 39, 102247	5.2	8
28	Experimental analysis of hybrid nanocomposite-phase change material embedded cement mortar for thermal energy storage. <i>Journal of Building Engineering</i> , 2020 , 30, 101297	5.2	7
27	Nanomaterial-embedded phase-change materials (PCMs) for reducing building cooling needs 2015 , 401-439		5
26	Applications of Thermal Analysis to the Study of Phase-Change Materials. <i>Handbook of Thermal Analysis and Calorimetry</i> , 2018 , 6, 519-572		5
25	Thermal Energy Storage Technologies 2014 , 57-64		4
24	Thermal Energy Storage Systems Design 2014 , 237-245		4
23	Energy efficient pumpable cement concrete with nanomaterials embedded PCM for passive cooling application in buildings. <i>Materials Today: Proceedings</i> , 2020 , 28, 1054-1063	1.4	3
22	Applications of Thermal Energy Storage Systems 2014 , 359-366		3
21	Nanotechnology in Thermal Energy Storage 2014 , 163-202		3
20	Experimental Evaluation of Combined DCV and Economizer Cycle using a FLC Variable Air Volume (VAV) System. <i>International Journal of Ventilation</i> , 2007 , 5, 393-403	1.1	3
19	Cryogenic conditioning of microencapsulated phase change material for thermal energy storage. <i>Scientific Reports</i> , 2020 , 10, 18353	4.9	3
18	Study on thermal storage properties of microencapsulated organic ester as phase change material for cooling application. <i>International Journal of Environmental Analytical Chemistry</i> , 2019 , 1-10	1.8	2

17	An Energy Efficient Air Conditioning System using Displacement Ventilation and Chilled Ceiling for Modern Office Buildings. <i>International Journal of Ventilation</i> , 2010 , 9, 25-44	1.1	2
16	Experimental Analysis of a Genetic-Fuzzy Inverter DX VAV A/C System for Automatically Ventilated Buildings. <i>International Journal of Ventilation</i> , 2007 , 6, 219-234	1.1	2
15	Thermal conductivity prediction of titania-water nanofluid: A case study using different machine learning algorithms. <i>Case Studies in Thermal Engineering</i> , 2021 , 30, 101658	5.6	2
14	Preparation and characterization of microencapsulated organic phase change material for cool thermal energy storage applications. <i>Materials Today: Proceedings</i> , 2021 , 48, 639-639	1.4	2
13	Bio-based phase-change materials 2020 , 203-242		2
12	Thermal Energy Storage Technologies 2013 , 483-536		2
11	Nanomaterial-Based PCM Composites for Thermal Energy Storage in Buildings 2016 , 215-243		1
10	Latent Thermal Energy Storage 2014 , 83-126		1
9	Energy and Energy Management 2014 , 1-19		1
8	Sustainable Thermal Energy Storage 2014 , 203-235		1
7	Micro/nanoencapsulation of dimethyl adipate with melamine formaldehyde shell as phase change material slurries for cool thermal energy storage. <i>Chemical Thermodynamics and Thermal Analysis</i> , 2022 , 6, 100037		1
6	Study on thermal energy storage properties of bio-based n-dodecanoic acid/fly ash as a novel shape-stabilized phase change material. <i>Case Studies in Thermal Engineering</i> , 2022 , 30, 101707	5.6	1
5	Assessment of Thermal Energy Storage Systems 2014 , 279-310		0
4	Thermal stability evaluation of selected zeolites for sustainable thermochemical energy storage. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 1-14	1.6	0
3	Experimental Study on PCM-Based External Wall Cladding for Energy Efficient Buildings. <i>Lecture Notes in Mechanical Engineering</i> , 2020 , 513-526	0.4	
2	Dimethyl Adipate-Based Microencapsulated Phase Change Material with Silica Shell for Cool Thermal Energy Storage 2021 , 225		
1	Microcapsules of n-dodecanoic acid/melamine-formaldehyde with enhanced thermal energy storage capability for solar applications. <i>Journal of Science: Advanced Materials and Devices</i> , 2022 , 100462 ^{1,2}		