Parameshwaran

List of Publications by Year in Descending Order

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	Micro/nanoencapsulation of dimethyl adipate with melamine formaldehyde shell as phase change material slurries for cool thermal energy storage. *Chemical Thermodynamics and Thermal Analysis*, **2022**, 6, 100037		1
51	Study on thermal energy storage properties of bio-based n-dodecanoic acid/fly ash as a novel shape-stabilized phase change material. *Case Studies in Thermal Engineering*, **2022**, 30, 101707	5.6	1
50	Microcapsules of n-dodecanoic acid/melamine-formaldehyde with enhanced thermal energy storage capability for solar applications. *Journal of Science: Advanced Materials and Devices*, **2022**, 100462	4.2	
49	Dimethyl Adipate-Based Microencapsulated Phase Change Material with Silica Shell for Cool Thermal Energy Storage **2021**, 225		
48	Thermal conductivity prediction of titania-water nanofluid: A case study using different machine learning algorithms. *Case Studies in Thermal Engineering*, **2021**, 30, 101658	5.6	2
47	Preparation and characterization of microencapsulated organic phase change material for cool thermal energy storage applications. *Materials Today: Proceedings*, **2021**, 48, 639-639	1.4	2
46	Facile synthesis of microencapsulated 1-dodecanol/melamine-formaldehyde phase change material using in-situ polymerization for thermal energy storage. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 610, 125698	5.1	15
45	Microencapsulated bio-based phase change material-micro concrete composite for thermal energy storage. *Journal of Building Engineering*, **2021**, 39, 102247	5.2	8
44	Microencapsulated phase change materials as slurries for thermal energy storage: A review. *Materials Today: Proceedings*, **2021**, 44, 1960-1963	1.4	9
43	Experimental analysis of hybrid nanocomposite-phase change material embedded cement mortar for thermal energy storage. *Journal of Building Engineering*, **2020**, 30, 101297	5.2	7
42	Energy efficient pumpable cement concrete with nanomaterials embedded PCM for passive cooling application in buildings. *Materials Today: Proceedings*, **2020**, 28, 1054-1063	1.4	3
41	Experimental Study on PCM-Based External Wall Cladding for Energy Efficient Buildings. *Lecture Notes in Mechanical Engineering*, **2020**, 513-526	0.4	
40	Microencapsulated phase change material suspensions for cool thermal energy storage. *Materials Chemistry and Physics*, **2020**, 242, 122519	4.4	15
39	Cryogenic conditioning of microencapsulated phase change material for thermal energy storage. *Scientific Reports*, **2020**, 10, 18353	4.9	3
38	Bio-based phase-change materials **2020**, 203-242		2
37	Study on thermal storage properties of microencapsulated organic ester as phase change material for cooling application. *International Journal of Environmental Analytical Chemistry*, **2019**, 1-10	1.8	2
36	Role of polysiloxanes in the synthesis of aligned porous silicon oxycarbide ceramics. *Ceramics International*, **2019**, 45, 8150-8156	5.1	8

35	PCM-mortar based construction materials for energy efficient buildings: A review on research trends. *Energy and Buildings*, **2018**, 158, 95-122	7	99
34	Applications of Thermal Analysis to the Study of Phase-Change Materials. *Handbook of Thermal Analysis and Calorimetry*, **2018**, 6, 519-572		5
33	Study on thermal energy storage properties of organic phase change material for waste heat recovery applications. *Materials Today: Proceedings*, **2018**, 5, 16840-16848	1.4	11
32	Performance evaluation of a combined variable refrigerant volume and cool thermal energy storage system for air conditioning applications. *International Journal of Refrigeration*, **2017**, 76, 271-295	3.8	21
31	Preparation and characterization of hybrid nanocomposite embedded organic methyl ester as phase change material. *Solar Energy Materials and Solar Cells*, **2017**, 171, 148-160	6.4	17
30	Experimental Studies on Convective Heat Transfer and Pressure Drop Characteristics of Metal and Metal Oxide Nanofluids Under Turbulent Flow Regime. *Heat Transfer Engineering*, **2016**, 37, 422-434	1.7	11
29	Nanomaterial-Based PCM Composites for Thermal Energy Storage in Buildings **2016**, 215-243		1
28	Fluid-structure Interactions and Flow Induced Vibrations: A Review. *Procedia Engineering*, **2016**, 144, 1286-1293		12
27	Nanomaterial-embedded phase-change materials (PCMs) for reducing building cooling needs **2015**, 401-439		5
26	Experimental investigation on convective heat transfer and rheological characteristics of Cu□iO2 hybrid nanofluids. *Experimental Thermal and Fluid Science*, **2014**, 52, 104-115	3	248
25	Preparation, thermal and rheological properties of hybrid nanocomposite phase change material for thermal energy storage. *Applied Energy*, **2014**, 115, 320-330	10.7	74
24	Energy conservative air conditioning system using silver nano-based PCM thermal storage for modern buildings. *Energy and Buildings*, **2014**, 69, 202-212	7	62
23	Latent Thermal Energy Storage **2014**, 83-126		1
22	Applications of Thermal Energy Storage Systems **2014**, 359-366		3
21	Thermal Energy Storage Technologies **2014**, 57-64		4
20	Thermal Energy Storage Systems Design **2014**, 237-245		4
19	Assessment of Thermal Energy Storage Systems **2014**, 279-310		0
18	Energy and Energy Management **2014**, 1-19		1

17	Nanotechnology in Thermal Energy Storage **2014**, 163-202		3
16	Sustainable Thermal Energy Storage **2014**, 203-235		1
15	Study on thermal properties of organic ester phase-change material embedded with silver nanoparticles. *Journal of Thermal Analysis and Calorimetry*, **2013**, 114, 845-858	4.1	96
14	Energy efficient hybrid nanocomposite-based cool thermal storage air conditioning system for sustainable buildings. *Energy*, **2013**, 59, 194-214	7.9	41
13	Study on thermal storage properties of hybrid nanocomposite-dibasic ester as phase change material. *Thermochimica Acta*, **2013**, 573, 106-120	2.9	24
12	Green synthesis of silver nanoparticles using Beta vulgaris: Role of process conditions on size distribution and surface structure. *Materials Chemistry and Physics*, **2013**, 140, 135-147	4.4	43
11	Effect of aggregation on thermal conductivity and heat transfer in hybrid nanocomposite phase change colloidal suspensions. *Applied Physics Letters*, **2013**, 103, 193113	3.4	11
10	Thermal Energy Storage Technologies **2013**, 483-536		2
9	Analytical and experimental investigations of nanoparticles embedded phase change materials for cooling application in modern buildings. *Renewable Energy*, **2012**, 39, 375-387	8.1	91
8	Sustainable thermal energy storage technologies for buildings: A review. *Renewable and Sustainable Energy Reviews*, **2012**, 16, 2394-2433	16.2	212
7	Experimental and numerical investigation of phase change materials with finned encapsulation for energy-efficient buildings. *Journal of Building Performance Simulation*, **2010**, 3, 245-254	2.8	34
6	An Energy Efficient Air Conditioning System using Displacement Ventilation and Chilled Ceiling for Modern Office Buildings. *International Journal of Ventilation*, **2010**, 9, 25-44	1.1	2
5	Energy conservative building air conditioning system controlled and optimized using fuzzy-genetic algorithm. *Energy and Buildings*, **2010**, 42, 745-762	7	34
4	Energy efficient PCM-based variable air volume air conditioning system for modern buildings. *Energy and Buildings*, **2010**, 42, 1353-1360	7	62
3	Experimental Evaluation of Combined DCV and Economizer Cycle using a FLC Variable Air Volume (VAV) System. *International Journal of Ventilation*, **2007**, 5, 393-403	1.1	3
2	Experimental Analysis of a Genetic-Fuzzy Inverter DX VAV A/C System for Automatically Ventilated Buildings. *International Journal of Ventilation*, **2007**, 6, 219-234	1.1	2
1	Thermal stability evaluation of selected zeolites for sustainable thermochemical energy storage. *Energy Sources, Part A: Recovery, Utilization and Environmental Effects*,1-14	1.6	0