RESEARCH PUBLICATIONS (h-index = 16)

https://scholar.google.co.in/citations?user=IdBfxiwAAAAJ&hl=en

Journals		Conferences		Book	Book Chapters
International	National	International	National	International	
36	-	26	03	02	05

INTERNATIONAL JOURNALS

S. No.	Research Publications	Indexed in
	Year: 2022	
1.	Rachuri Naresh, Rajagopalan Parameshwaran, Vijayapuri Vinayaka Ram, Purgindla Venkata Srinivas, Study on thermal storage properties of bio-based n-dodecanoic acid/fly ash as a novel shape-stabilized phase change material, Case Studies in Thermal Engineering Vol.30 (2022) 101707. **Impact Factor: 4.724**, Elsevier	**SCIE Q1**
2.	Palash Sharma, K. Ramesh, **R. Parameshwaran**, Sandip S. Deshmukh, Thermal conductivity prediction of titania-water nanofluid: A case study using different machine learning algorithms, Case Studies in Thermal Engineering Vol.30 (2022) 101658. **Impact Factor: 4.724**, Elsevier	**SCIE Q1**
3.	Pavneet Kaur Bhatia, Swarnika Agarwal, I.Sreedhar, **R. Parameshwaran**, Biomass based polymers as effective drag reducing agents in turbulent flow, Biomass Conversion and Biorefinery (2022). **Impact Factor: 4.987**, Springer	**SCIE and SCOPUS Q2**
	Year: 2021	
4.	R. Parameshwaran, R. Naresh, V. Vinayaka Ram, P.V. Srinivas, Microencapsulated bio-based phase change material-micro concrete composite for thermal energy storage, Journal of Building Engineering Vol.39 (2021) 102247. **Impact Factor: 5.318**, Elsevier	**SCIE and SCOPUS Q1**
5.	G. Naveen Kumar, Bader Al-Aifan, R. Parameshwaran, V. Vinayaka Ram, 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 Vol.610 (2020) 125698. **Impact Factor: 4.539**, Elsevier	**SCIE and SCOPUS Q2**
6.	P.K. Chauhan, **R. Parameshwaran**, P. Kannan, R. Madhavaram, R. Sujith, Hydrogen storage in porous polymer derived Silicon Oxycarbide ceramics: Outcomes and perspectives, Ceramics International, Vol.47 (2021) 2591-2599. **Impact Factor: 4.527**, Elsevier	**SCI, MSCI and SCOPUS Q1**

Year: 2020		
7.	G.V.N. Trivedi, **R. Parameshwaran**, Cryogenic conditioning of microencapsulated phase change material for thermal energy storage, **Scientific Reports – Nature** Vol.No.10 (2020)18353. **Impact Factor: 4.379**.	**SCI, SCIE and SCOPUS Q1**
8.	**R. Parameshwaran**, G. Naveen Kumar, V. Vinayaka Ram, Experimental analysis of hybrid nanocomposite-phase change material embedded cement mortar for thermal energy storage, Journal of Building Engineering Vol.30 (2020) 101297. **Impact Factor: 5.318**, Elsevier.	**SCI and SCOPUS Q1**
9.	G.V.N. Trivedi, **R. Parameshwaran**, Microencapsulated phase change material suspensions for cool thermal energy storage, Materials Chemistry and Physics Vol.242 (2020) 122519. **Impact Factor: 4.094**, Elsevier.	**SCI and SCOPUS Q2**
Year: 2019		
10.	Ovase Moinuddin, G. V. N. Trivedi, **R. Parameshwaran**, Sandip. S. Deshmukh, 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. **Impact Factor: 2.826**, Taylor & Francis.	**SCI, SCIE and SCOPUS Q3**
11.	P. K. Chuahan, V. Vidhukiran, R. Sujith, **R. Parameshwaran**, Experimental Investigation and Modelling of Hydrogen Storage on Graphene Nanoplatelets using Seivert's Apparatus, Materials Research Express, Vol.6 (2019) 105617. **Impact Factor:1.620**, IOP Science.	**SCIE and SCOPUS Q2**
12.	Pawan K. Chauhan, Ravindran Sujith, **Rajagopalan Parameshwaran**, A.V.S. Siva Prasad, Role of polysiloxanes in the synthesis of aligned porous silicon oxycarbide ceramics, Ceramics International, Vol. No. 45, (2019) pp. 8150-8156. **Impact Factor: 4.527**, Elsevier	**SCI, MSCI and SCOPUS Q1**
Year: 2018		
13.	V. Venkateswara Rao, **R. Parameshwaran**, V. Vinayaka Ram, PCM-mortar based construction materials for energy efficient buildings: A review on research trends, Energy and Buildings, Vol. No. 158 (2018) pp. 95-122. **Impact Factor: 5.879**, Elsevier.	**SCIE and SCOPUS Q1**
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14.	K.R. Suresh Kumar, **R. Parameshwaran**, S. Kalaiselvam, Preparation and characterization of hybrid nanocomposite embedded organic methyl ester as phase change material, Solar Energy Materials & Solar Cells, Vol. No. 171 (2017) pp. 148-160. **Impact Factor: 7.267**, Elsevier.	**SCI, MSCI and SCOPUS Q1**

15.	Bader Al-Aifan, **R. Parameshwaran**, Kushagra Mehta, R. Karunakaran, Performance evaluation of a combined variable refrigerant volume and cool thermal energy storage system for air conditioning applications, International Journal of Refrigeration, Vol. No. 76 (2017) pp. 271-295. **Impact Factor: 3.629**, Elsevier.	**SCIE and SCOPUS Q1**
Year: 2016		
16.	Devasenan Madhesh, **Rajagopalan Parameshwaran**, Siva Kalaiselvam, Experimental Studies on Convective Heat Transfer and Pressure Drop Characteristics of Metal and Metal Oxide Nanofluids Under Turbulent Flow Regime, Heat Transfer Engineering, Vol. No. 37 (2016) pp. 422-434. **Impact Factor: 2.172**, Elsevier.	**SCI, MSCI and SCOPUS Q1**
Year: 2014		
17.	**Parameshwaran R**, Deepak K, Saravanan R & Kalaiselvam S, Preparation, thermal and rheological properties of hybrid nanocomposite phase change material for thermal energy storage, Applied Energy, Vol. No. 115 (2014) pp. 320-330. **Impact Factor: 9.746**, Elsevier.	**SCI, SCIE and SCOPUS Q1**
18.	**Parameshwaran R** & Kalaiselvam S, Energy conservative air conditioning system using silver nano-based PCM thermal storage for modern buildings, Energy and Buildings, Vol.No. 69 (2014) pp. 202-212. **Impact Factor: 5.879**, Elsevier.	**SCIE and SCOPUS Q1**
19.	Madhesh D, **Parameshwaran R**, Kalaiselvam S, Experimental investigation on convective heat transfer and rheological characteristics of Cu–TiO_2 hybrid nanofluids, Experimental Thermal and Fluid Science, Vol.No. 52, pp. 104-115. **Impact Factor: 3.232**, Elsevier.	**SCIE and SCOPUS Q1**
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20.	**Parameshwaran R** & Kalaiselvam S, Energy efficient hybrid nanocomposite-based cool thermal storage air conditioning system for sustainable buildings, Energy, Vol.No. 59 (2013) pp. 194-214. **Impact Factor: 7.147**, Elsevier.	**SCI, SCIE and SCOPUS Q1**
21.	**Parameshwaran R** & Kalaiselvam S, Effect of aggregation on thermal conductivity and heat transfer in hybrid nanocomposite phase change colloidal suspensions, Applied Physics Letters, Vol.No.103 (2013) pp. 193113-1-5. **Impact Factor: 3.791**, Elsevier.	**SCI Q1**
22.	**Parameshwaran R**, Dhamodharan P & Kalaiselvam S, Study on thermal storage properties of hybrid nanocomposite-dibasic ester as phase change material, Thermochimica Acta, Vol.No. 573 (2013) pp. 106-120. **Impact Factor: 3.115**, Elsevier.	**SCI and SCOPUS Q1**

23.	**Parameshwaran R**, Kalaiselvam S & Jayavel R, Green synthesis of silver nanoparticles using Beta vulgaris: Role of process conditions on size distribution and surface structure, Materials Chemistry and Physics Vol.No. 140 (2013) pp. 135-147. **Impact Factor: 4.094**, Elsevier.	**SCI and SCOPUS Q2**
24.	**Parameshwaran R**, Jayavel R & Kalaiselvam S, Study on thermal properties of organic ester phase-change material embedded with silver nanoparticles, Journal of Thermal Analysis and Calorimetry, Vol.No. 114 (2013) pp. 845-858. **Impact Factor: 4.626**, Elsevier.	**SCI, SCIE and SCOPUS Q2**
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26.	Kalaiselvam S, **Parameshwaran R** & Harikrishnan S, Analytical and experimental investigations of nanoparticles embedded phase change materials for cooling application in modern buildings, Renewable Energy, Vol.No. 39 (2012) pp. 375-387. **Impact Factor: 8.001**, Elsevier.	**SCIE and SCOPUS Q1**
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27.	**Parameshwaran R**, Harikrishnan S & Kalaiselvam S, Energy efficient PCM-based variable air volume air conditioning system for modern buildings, Energy and Buildings, Vol.No. 42 (2010) pp. 1353-1360. **Impact Factor: 5.879**, Elsevier.	**SCIE and SCOPUS Q1**
28.	**Parameshwaran R**, Karunakaran R, Vinu Raja Kumar C & Iniyan S, Energy conservative building air conditioning system controlled and optimized using fuzzy-genetic algorithm, Energy and Buildings Vol.No. 42 (2010) pp. 745-762. **Impact Factor: 5.879**, Elsevier.	**SCIE and SCOPUS Q1**
29.	Kalaiselvam S, Marcel Xavier L, Kumaresh GR, **Parameshwaran R**, Harikrishnan S, Experimental and numerical investigation of phase change materials (PCMs) with finned encapsulation for energy efficient buildings, Journal of Building Performance Simulation, Vol. No. 3 (2010) 245-254. **Impact Factor: 2.957**, Elsevier.	**SCOPUS Q1**
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Year: 2009		

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32.	Karunakaran R, **Parameshwaran R**, Senthilkumar A, Iniyan S, Efficient Variable Air Volume Air Conditioning System Based on Fuzzy Logic Controller for Buildings, Science & Technology Asia (formerly the International Journal of Science and Technology Thammasat) Vol.No. 14 (2009) pp. 21-33. Thammasat University.	**SCOPUS Q3**
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2. R. Naresh, **R. Parameshwaran**, V. Vinayaka Ram, P. V. Srinivas, Bio-based hexadecanol impregnated fly-ash aggregate as novel shape stabilized phase change material for solar

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