

# Ravi Sharma

## List of Publications by Year in descending order

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23  
papers

1,514  
citations

516215

16  
h-index

642321

23  
g-index

23  
all docs

23  
docs citations

23  
times ranked

1334  
citing authors

#	ARTICLE	IF	CITATIONS
1	Developments in organic solid-liquid phase change materials and their applications in thermal energy storage. <i>Energy Conversion and Management</i> , 2015, 95, 193-228.	4.4	597
2	Thermal properties and heat storage analysis of palmitic acid-TiO <sub>2</sub> composite as nano-enhanced organic phase change material (NEOPCM). <i>Applied Thermal Engineering</i> , 2016, 99, 1254-1262.	3.0	194
3	A comprehensive review on phase change materials for heat storage applications: Development, characterization, thermal and chemical stability. <i>Solar Energy Materials and Solar Cells</i> , 2022, 234, 111392.	3.0	98
4	Preparation, characterization, thermal energy storage properties and temperature control performance of form-stabilized sepiolite based composite phase change materials. <i>Energy and Buildings</i> , 2019, 188-189, 111-119.	3.1	78
5	Long-term thermal and chemical reliability study of different organic phase change materials for thermal energy storage applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016, 124, 1357-1366.	2.0	67
6	Analysis of double diffusive convection in electroosmosis regulated peristaltic transport of nanofluids. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2019, 535, 122148.	1.2	60
7	Accelerated thermal cycle and chemical stability testing of polyethylene glycol (PEG) 6000 for solar thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , 2016, 147, 235-239.	3.0	58
8	Numerical study for enhancement of solidification of phase change materials using trapezoidal cavity. <i>Powder Technology</i> , 2014, 268, 38-47.	2.1	55
9	Evaluation of pumice for development of low-cost and energy-efficient composite phase change materials and lab-scale thermoregulation performances of its cementitious plasters. <i>Energy</i> , 2020, 207, 118242.	4.5	49
10	PCM integrated glass in glass tube solar collector for low and medium temperature applications: Thermodynamic & techno-economic approach. <i>Energy</i> , 2020, 198, 117238.	4.5	44
11	Advances in the developments of solar cooker for sustainable development: A comprehensive review. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 145, 111166.	8.2	30
12	Development and characterization of form-stable porous TiO <sub>2</sub> /tetradecanoic acid based composite PCM with long-term stability as solar thermal energy storage material. <i>International Journal of Energy Research</i> , 2020, 44, 10044-10057.	2.2	28
13	Numerical and experimental investigation of different rib roughness in a solar air heater. <i>Thermal Science and Engineering Progress</i> , 2020, 19, 100576.	1.3	27
14	A cycling study for reliability, chemical stability and thermal durability of polyethylene glycols of molecular weight 2000 and 10000 as organic latent heat thermal energy storage materials. <i>International Journal of Energy Research</i> , 2020, 44, 2183-2195.	2.2	26
15	Improved thermal energy storage behavior of polyethylene glycol-based NEOPCM containing aluminum oxide nanoparticles for solar thermal applications. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 1881-1892.	2.0	22
16	Effects of Thermal Cycling Operation on Solar Thermal Energy Storage, Morphology, Chemical/Crystalline Structure, and Thermal Degradation Properties of Some Fatty Alcohols as Organic PCMs. <i>Energy &amp; Fuels</i> , 2020, 34, 9011-9019.	2.5	21
17	Porosity effect on the boundary layer Bodewadt flow of a magnetic nanofluid in the presence of geothermal viscosity. <i>European Physical Journal Plus</i> , 2017, 132, 1.	1.2	18
18	Experimental investigations on the phase change and thermal properties of nano enhanced binary eutectic phase change material of palmitic acid-stearic acid / CuO nanoparticles for thermal energy storage. <i>International Journal of Energy Research</i> , 2022, 46, 6562-6576.	2.2	15

#	ARTICLE	IF	CITATIONS
19	Study on thermal properties of organic phase change materials for energy storage. Materials Today: Proceedings, 2020, 28, 2353-2357.	0.9	10
20	Prediction of Thermal Properties and Reliability Testing of Binary Eutectic Mixture of Polyethylene Glycol 2000 and 10000 as Phase Change Materials. ChemistrySelect, 2020, 5, 9745-9757.	0.7	7
21	Turbulence Model Sensitivity and Scour Gap Effect of Unsteady Flow around Pipe: A CFD Study. Scientific World Journal, The, 2014, 2014, 1-11.	0.8	4
22	Solidification of Nano-Enhanced Phase Change Materials (NEPCM) in a Trapezoidal Cavity: A CFD Study. Universal Journal of Mechanical Engineering, 2014, 2, 187-192.	0.4	4
23	Development and characterization of eutectic phase change material for thermal energy storage system. Materials Today: Proceedings, 2020, 28, 2471-2475.	0.9	2