Karunesh Kant

List of Publications by Citations

41 papers	1,079 citations	15 h-index	32 g-index
42 ext. papers	1,496 ext. citations	6.2 avg, IF	5.29 L-index

#	Paper	IF	Citations
41	Cooling methodologies of photovoltaic module for enhancing electrical efficiency: A review. *Solar Energy Materials and Solar Cells*, **2017**, 160, 275-286	6.4	131
40	Heat transfer study of phase change materials with graphene nano particle for thermal energy storage. *Solar Energy*, **2017**, 146, 453-463	6.8	114
39	Heat transfer studies of photovoltaic panel coupled with phase change material. *Solar Energy*, **2016** , 140, 151-161	6.8	109
38	Thermal energy storage based solar drying systems: A review. *Innovative Food Science and Emerging Technologies*, **2016**, 34, 86-99	6.8	101
37	Advancement in phase change materials for thermal energy storage applications. *Solar Energy Materials and Solar Cells*, **2017**, 172, 82-92	6.4	79
36	Heat transfer studies of building brick containing phase change materials. *Solar Energy*, **2017**, 155, 1233-1242	6.8	67
35	Recent technical advancements, economics and environmental impacts of floating photovoltaic solar energy conversion systems. *Journal of Cleaner Production*, **2021**, 278, 124285	10.3	63
34	Thermal response of poly-crystalline silicon photovoltaic panels: Numerical simulation and experimental study. *Solar Energy*, **2016**, 134, 147-155	6.8	59
33	Solar still with latent heat energy storage: A review. *Innovative Food Science and Emerging Technologies*, **2017**, 41, 34-46	6.8	54
32	Performance evaluation of fatty acids as phase change material for thermal energy storage. *Journal of Energy Storage*, **2016**, 6, 153-162	7.8	46
31	A review on opportunities for implementation of solar energy technologies in agricultural greenhouses. *Journal of Cleaner Production*, **2021**, 285, 124807	10.3	43
30	Analysis and design of air ventilated building integrated photovoltaic (BIPV) system incorporating phase change materials. *Energy Conversion and Management*, **2019**, 196, 149-164	10.6	42
29	Ternary mixture of fatty acids as phase change materials for thermal energy storage applications. *Energy Reports*, **2016**, 2, 274-279	4.6	38
28	Melting and solidification behaviour of phase change materials with cyclic heating and cooling. *Journal of Energy Storage*, **2018**, 15, 274-282	7.8	24
27	Solar Greenhouse With Thermal Energy Storage: a Review. *Current Sustainable/Renewable Energy Reports*, **2016**, 3, 58-66	2.8	21
26	Heat transfer study of building integrated photovoltaic (BIPV) with nano-enhanced phase change materials. *Journal of Energy Storage*, **2020**, 30, 101563	7.8	15
25	Laminar drag reduction in microchannels with liquid infused textured surfaces. *Chemical Engineering Science*, **2021**, 230, 116196	4.4	13

24	Recent advances in thermophysical properties enhancement of phase change materials for thermal energy storage. *Solar Energy Materials and Solar Cells*, **2021**, 231, 111309	6.4	12
23	Performance analysis of a K2CO3-based thermochemical energy storage system using a honeycomb structured heat exchanger. *Journal of Energy Storage*, **2021**, 38, 102563	7.8	9
22	Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology. *Renewable and Sustainable Energy Reviews*, **2022**, 158, 112126	16.2	8
21	Heat transfer and energy storage performances of phase change materials encapsulated in honeycomb cells. *Journal of Energy Storage*, **2021**, 38, 102507	7.8	8
20	Recent Advancements in Technical Design and Thermal Performance Enhancement of Solar Greenhouse Dryers. *Sustainability*, **2021**, 13, 7025	3.6	7
19	Analysis and optimization of the closed-adsorption heat storage bed performance. *Journal of Energy Storage*, **2020**, 32, 101896	7.8	3
18	Numerical simulation of building wall incorporating phase change material for cooling load reduction. *Energy and Climate Change*, **2020**, 1, 100008	1.2	3
17	Perspective of Solar Energy in India. *Green Energy and Technology*, **2018**, 17-35	0.6	2
16	Deployment of the Low Carbon Energy Supply Technologies for Sustainable Development **2020**, 289-304		1
15	Analysis and Optimization of a Novel Hexagonal Waveguide Concentrator for Solar Thermal Applications. *Energies*, **2021**, 14, 2146	3.1	1
14	Thermal Stability and Reliability Test of Some Saturated Fatty Acids for Low and Medium Temperature Thermal Energy Storage. *Energies*, **2021**, 14, 4509	3.1	1
13	Analysis of a novel constructal fin tree embedded thermochemical energy storage for buildings applications. *Energy Conversion and Management*, **2022**, 258, 115542	10.6	1
12	Advances and opportunities in thermochemical heat storage systems for buildings applications. *Applied Energy*, **2022**, 321, 119299	10.7	1
11	Latent Heat Storage for Solar Still Applications. *Green Energy and Technology*, **2019**, 293-323	0.6	
10	Chapter 3 Use of Building Integrated Photovoltaic (BIPV): A Significant Step toward Green Buildings **2016**, 55-92		
9	Heat Transfer Studies of PCMs to Optimize the Cost Efficiency for Different Applications **2020**, 115-128		
8	Characterization Techniques of Phase Change Materials: Methods and Equipment **2020**, 97-113		
7	Advances in Simulation Studies for Developing Energy-Efficient Buildings **2018**, 209-233		

6	Building Integrated Photovoltaic: Building Envelope Material and Power Generator for Energy-Efficient Buildings **2018**, 109-129	
5	Heating Ventilation and Air-Conditioning Systems for Energy-Efficient Buildings **2018**, 165-180	
4	Phase Change Materials for Temperature Regulation of Photovoltaic Cells **2020**, 157-170	
3	Numerical Techniques for Evaluating the Performance of Solar Drying Systems. *Green Energy and Technology*, **2017**, 381-402	0.6
2	Photovoltaic Modules: Battery Storage and Grid Technology. *Clean Energy Production Technologies*, **2022**, 65-77	0.8
1	Advances in solar greenhouse systems for cultivation of agricultural products **2022**, 77-111	