

# Karunesh Kant

## List of Publications by Year in Descending Order

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**Version:** 2024-04-26

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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.

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 | Progress and challenges of crop production and electricity generation in agrivoltaic systems using semi-transparent photovoltaic technology. <i>Renewable and Sustainable Energy Reviews</i> , <b>2022</b> , 158, 112126 | 16.2 | 8         |
| 40 | Photovoltaic Modules: Battery Storage and Grid Technology. <i>Clean Energy Production Technologies</i> , <b>2022</b> , 65-77   | 0.8  |           |
| 39 | Analysis of a novel constructal fin tree embedded thermochemical energy storage for buildings applications. <i>Energy Conversion and Management</i> , <b>2022</b> , 258, 115542  | 10.6 | 1         |
| 38 | Advances and opportunities in thermochemical heat storage systems for buildings applications. <i>Applied Energy</i> , <b>2022</b> , 321, 119299  | 10.7 | 1         |
| 37 | Advances in solar greenhouse systems for cultivation of agricultural products <b>2022</b> , 77-111   |      |           |
| 36 | Analysis and Optimization of a Novel Hexagonal Waveguide Concentrator for Solar Thermal Applications. <i>Energies</i> , <b>2021</b> , 14, 2146   | 3.1  | 1         |
| 35 | Performance analysis of a K <sub>2</sub> CO <sub>3</sub> -based thermochemical energy storage system using a honeycomb structured heat exchanger. <i>Journal of Energy Storage</i> , <b>2021</b> , 38, 102563            | 7.8  | 9         |
| 34 | Recent Advancements in Technical Design and Thermal Performance Enhancement of Solar Greenhouse Dryers. <i>Sustainability</i> , <b>2021</b> , 13, 7025   | 3.6  | 7         |
| 33 | Heat transfer and energy storage performances of phase change materials encapsulated in honeycomb cells. <i>Journal of Energy Storage</i> , <b>2021</b> , 38, 102507   | 7.8  | 8         |
| 32 | Thermal Stability and Reliability Test of Some Saturated Fatty Acids for Low and Medium Temperature Thermal Energy Storage. <i>Energies</i> , <b>2021</b> , 14, 4509   | 3.1  | 1         |
| 31 | Laminar drag reduction in microchannels with liquid infused textured surfaces. <i>Chemical Engineering Science</i> , <b>2021</b> , 230, 116196   | 4.4  | 13        |
| 30 | Recent technical advancements, economics and environmental impacts of floating photovoltaic solar energy conversion systems. <i>Journal of Cleaner Production</i> , <b>2021</b> , 278, 124285                            | 10.3 | 63        |
| 29 | A review on opportunities for implementation of solar energy technologies in agricultural greenhouses. <i>Journal of Cleaner Production</i> , <b>2021</b> , 285, 124807  | 10.3 | 43        |
| 28 | Recent advances in thermophysical properties enhancement of phase change materials for thermal energy storage. <i>Solar Energy Materials and Solar Cells</i> , <b>2021</b> , 231, 111309                                 | 6.4  | 12        |
| 27 | Heat transfer study of building integrated photovoltaic (BIPV) with nano-enhanced phase change materials. <i>Journal of Energy Storage</i> , <b>2020</b> , 30, 101563  | 7.8  | 15        |
| 26 | Heat Transfer Studies of PCMs to Optimize the Cost Efficiency for Different Applications <b>2020</b> , 115-128   |      |           |
| 25 | Characterization Techniques of Phase Change Materials: Methods and Equipment <b>2020</b> , 97-113  |      |           |

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| 24 | Deployment of the Low Carbon Energy Supply Technologies for Sustainable Development <b>2020</b> , 289-304   |      | 1   |
| 23 | Phase Change Materials for Temperature Regulation of Photovoltaic Cells <b>2020</b> , 157-170   |      |     |
| 22 | Analysis and optimization of the closed-adsorption heat storage bed performance. <i>Journal of Energy Storage</i> , <b>2020</b> , 32, 101896  | 7.8  | 3   |
| 21 | Numerical simulation of building wall incorporating phase change material for cooling load reduction. <i>Energy and Climate Change</i> , <b>2020</b> , 1, 100008                                | 1.2  | 3   |
| 20 | Analysis and design of air ventilated building integrated photovoltaic (BIPV) system incorporating phase change materials. <i>Energy Conversion and Management</i> , <b>2019</b> , 196, 149-164 | 10.6 | 42  |
| 19 | Latent Heat Storage for Solar Still Applications. <i>Green Energy and Technology</i> , <b>2019</b> , 293-323  | 0.6  |     |
| 18 | Advances in Simulation Studies for Developing Energy-Efficient Buildings <b>2018</b> , 209-233  |      |     |
| 17 | Building Integrated Photovoltaic: Building Envelope Material and Power Generator for Energy-Efficient Buildings <b>2018</b> , 109-129   |      |     |
| 16 | Heating Ventilation and Air-Conditioning Systems for Energy-Efficient Buildings <b>2018</b> , 165-180   |      |     |
| 15 | Melting and solidification behaviour of phase change materials with cyclic heating and cooling. <i>Journal of Energy Storage</i> , <b>2018</b> , 15, 274-282                                    | 7.8  | 24  |
| 14 | Perspective of Solar Energy in India. <i>Green Energy and Technology</i> , <b>2018</b> , 17-35  | 0.6  | 2   |
| 13 | Solar still with latent heat energy storage: A review. <i>Innovative Food Science and Emerging Technologies</i> , <b>2017</b> , 41, 34-46   | 6.8  | 54  |
| 12 | Heat transfer study of phase change materials with graphene nano particle for thermal energy storage. <i>Solar Energy</i> , <b>2017</b> , 146, 453-463  | 6.8  | 114 |
| 11 | Advancement in phase change materials for thermal energy storage applications. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 172, 82-92   | 6.4  | 79  |
| 10 | Heat transfer studies of building brick containing phase change materials. <i>Solar Energy</i> , <b>2017</b> , 155, 1233-1242   | 6.4  | 67  |
| 9  | Cooling methodologies of photovoltaic module for enhancing electrical efficiency: A review. <i>Solar Energy Materials and Solar Cells</i> , <b>2017</b> , 160, 275-286                          | 6.4  | 131 |
| 8  | Numerical Techniques for Evaluating the Performance of Solar Drying Systems. <i>Green Energy and Technology</i> , <b>2017</b> , 381-402   | 0.6  |     |
| 7  | Chapter 3 Use of Building Integrated Photovoltaic (BIPV): A Significant Step toward Green Buildings <b>2016</b> , 55-92   |      |     |

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|---|---|-----|-----|
| 6 | Ternary mixture of fatty acids as phase change materials for thermal energy storage applications. <i>Energy Reports</i> , <b>2016</b> , 2, 274-279              | 4.6 | 38  |
| 5 | Heat transfer studies of photovoltaic panel coupled with phase change material. <i>Solar Energy</i> , <b>2016</b> , 140, 151-161                                | 6.8 | 109 |
| 4 | Thermal energy storage based solar drying systems: A review. <i>Innovative Food Science and Emerging Technologies</i> , <b>2016</b> , 34, 86-99                 | 6.8 | 101 |
| 3 | Solar Greenhouse With Thermal Energy Storage: a Review. <i>Current Sustainable/Renewable Energy Reports</i> , <b>2016</b> , 3, 58-66                            | 2.8 | 21  |
| 2 | Thermal response of poly-crystalline silicon photovoltaic panels: Numerical simulation and experimental study. <i>Solar Energy</i> , <b>2016</b> , 134, 147-155 | 6.8 | 59  |
| 1 | Performance evaluation of fatty acids as phase change material for thermal energy storage. <i>Journal of Energy Storage</i> , <b>2016</b> , 6, 153-162          | 7.8 | 46  |