

## Special Issue

# Design and Optimisation of Solar Energy Systems

### Message from the Guest Editors

Solar technologies play a crucial role in mitigating climate change and shaping a cleaner global energy economy. This Special Issue invites high-quality contributions focused on innovative materials, advanced system applications, and cutting-edge methodologies for solar energy harvesting and utilization. Topics of interest include, but are not limited to, the following:

- Advances in solar power systems, including next-generation photovoltaic technologies (e.g., perovskite solar cells, bifacial panels, and concentrated photovoltaic systems);
- Novel approaches in solar thermal energy systems, including solar collectors, space heating, water heating, thermal cooling, passive solar systems, and industrial process heat;
- Modeling, simulation, and optimization techniques for the design, control, and analysis of solar energy systems, including AI-driven approaches and multi-objective optimization;
- Emerging solar technologies, such as hybrid systems, photoelectrochemical systems, and integrated solar desalination processes

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### Guest Editors

Prof. Dr. Manuel Jesús Rodríguez-Pérez

Dr. David Meneses Rodríguez

Dr. Felipe Noh Pat

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### Deadline for manuscript submissions

31 January 2026



## Processes

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### Message from the Editor-in-Chief

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