

Special Issue

Advanced Heat and Mass Transfer Technologies for Sustainable Energy Systems

Message from the Guest Editors

This Special Issue will collect recent studies on the optimization of thermal transport in advanced heat and mass-transfer technologies for sustainable energy systems, which are key to reducing energy loss, boosting performance, and significantly lowering our carbon footprint. Topics covered include, but are not limited to, the following:

- Multiscale heat and mass-transport in clean energy systems;
- High-performance thermal management for next-generation electronic systems;
- Radiative cooling devices and solar photovoltaics;
- Mass-transport and phase-change mechanisms in energy-storage materials;
- Coupled heat, mass, and charge transport in sustainable energy systems.

Guest Editors

Dr. Chenglong Zhou

School of Energy Science and Engineering, Harbin Institute of Technology, Harbin 150001, China

Dr. Dilin Chen

College of Engineering, Ocean University of China, Qingdao 266100, China

Deadline for manuscript submissions

24 November 2025



Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



mdpi.com/si/242212

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)





Energies

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.3



[mdpi.com/journal/
energies](https://mdpi.com/journal/energies)



About the Journal

Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University
Niccolò Cusano, 00166 Roma, Italy

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

CiteScore - Q1 (Control and Optimization)