



energies



an Open Access Journal by MDPI

New Trends of Heat Transfer and Fluid Flow in Phase Change Materials

Guest Editor:

Dr. Adeel Arshad

Environment and Sustainability
Institute (ESI), Faculty of
Environment, Science and
Economy, University of Exeter,
Penryn Campus, Cornwall, TR10
9FE, UK

Deadline for manuscript
submissions:

31 July 2024

Message from the Guest Editor

This Special Issue focuses on new strategies and the development of PCMs based on analytical, experimental and numerical investigations to explore the fundamental understanding of heat transfer, fluid flow and the mass transfer phenomenon for a wide range of applications including thermal energy storage, utilization and conversion, the thermal management of electronics, batteries, photovoltaics and fuel cells, building heating/cooling and smart composite materials.

This Special Issue aims to invite recent investigations related to analytical, experimental and numerical solutions for PCMs to address the challenges of thermo-fluids, material science and energy systems. This Special Issue seeks both high-quality original research and review articles.

Keywords

- phase-change materials
- natural and forced convection heat transfer
- fins, porous and metal–matrix media
- thermophysical properties
- electronics and battery thermal management
- sustainable energy technologies
- computational fluid dynamics



mdpi.com/si/172536

Special Issue



energies



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and
Aerospace Engineering,
University of Roma Sapienza, Via
Eudossiana 18, 00184 Roma, Italy

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.

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 (*Engineering (miscellaneous)*)

Contact Us

Energies Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/energies
energies@mdpi.com
[X@energies_mdpi](https://x.com/energies_mdpi)