energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.2

CITESCORE 7.3

Theoretical and Experimental Analysis of Phase Change Materials for Thermal Energy Storage Applications

Guest Editors:

Dr. Luigi Mongibello
ENEA—Italian National Agency for New Technologies, Energy and Sustainable Economic Development, Portici Research Center, P.le E.Fermi, 1, 80055 Portici, NA, Italy

Dr. Matteo Morciano
Department of Energy, Politecnico di Torino, 10129 Torino, Italy

Deadline for manuscript submissions:
closed (31 January 2024)

Message from the Guest Editors

Authors are invited to submit novel numerical and/or experimental contributions to this Special Issue aimed at providing new clear and useful indications on the operation of such systems, underlying the benefits and/or the limits about the use of PCM-based solutions for thermal energy storage in the considered applications, also through comparisons with solutions based on conventional thermal energy storage systems.

Topics of interest for publication include, but are not limited to:

- PCMs for the management and storage of thermal energy in electronic systems;
- Integration of PCMs in buildings;
- Integration of PCMs in solar thermal collectors;
- Integration of PCMs in PV, CPV, and hybrid PV/T systems;
- PCMs for space heating and domestic hot water;
- PCMs for thermal management of lithium-ion batteries;
- Life cycle assessment (LCA) and life cycle cost (LCC) of PCMs;
- PCMs in cooling applications;
- PCMs in cold-chain logistics;
- Integration of PCMs in solar desalination systems;
- Application of cascaded multiple-PCMs;
- Application of PCMs in heat exchangers;
- Techniques for improving heat transfer in PCMs systems.

mdpi.com/si/140345

energies

an Open Access Journal by MDPI

IMPACT FACTOR 3.2

CITESCORE 7.3

Editor-in-Chief

Prof. Dr. Enrico Sciubba
Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 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 (Control and Optimization)

Contact Us

Energies Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/energies
energies@mdpi.com
𝕏@energies_mdpi