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

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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.

Deadline for manuscript
submissions:
closed (31 January 2024)



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Special Issue



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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.

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