Special Issue

New Advances in Thermal Energy Storage and Phase Change Materials

Message from the Guest Editor

This Special Issue is designed to foster collaboration and knowledge dissemination among scientists, engineers, and researchers from around the world. We welcome contributions encompassing a wide range of topics within the scope of this Special Issue, including but not limited to the following:

- Innovative PCM materials and formulations;
- Advanced thermal energy storage systems;
- PCM-enhanced applications in renewable energy;
- Numerical modeling and simulation of PCM behavior;
- Heat transfer and thermal performance analysis of PCM-based systems;
- Sustainable and environmentally friendly thermal storage solutions;
- Integration of PCMs in building and HVAC technologies for flexibility in shedding and shifting building loads and improved thermal comfort of occupants;
- Application of thermal energy systems in other heating and cooling systems;
- Innovative control strategies for thermal energy storage and phase change materials;
- Improvements in the temporal and spatial control of heat flows to optimize storage capacity use and reduce overall system costs.

Guest Editor

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Deadline for manuscript submissions

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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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