Special Issue

Phase Change Materials for Thermal Energy Applications

Message from the Guest Editor

Thermal energy application relates to heating demands as well as the demand for cooling. One particular type of thermal energy storage involves using so-called phase change materials (PCMs), where the latent heat involved in the phase change (with liquid–solid phase change most commonly proposed) allows for storing heat or cold at a high energy density per unit volume and weight. The thermal energy is also stored at a constant temperature during the phase change. These aspects make the incorporation of PCMs very attractive for many thermal applications. The Special Issue “Phase Change Materials for Thermal Energy Applications” seeks to highlight the state of the art regarding high energy density thermal management using PCMs for a wide variety of applications. Topics of interest include, but are not limited to, PCMs as applied to:

- Distributed storage solutions;
- District heating and cooling;
- Power to heat and power to cold;
- Concentrating solar power;
- Agricultural applications, including thermal management in greenhouses;
- Industrial applications, including surplus heat utilization;
- Demand-side management for buildings.

Guest Editor

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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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