

Special Issue

Heat Transfer and Thermal Energy Storage Systems

Message from the Guest Editors

Thermal energy storage allows for the storage of excess solar energy for later use. Solar energy can be stored in the form of sensible heat, latent heat and thermochemical. While there has been significant research and development in the field of thermal energy storage, the challenge of developing these technologies, while balancing cost and mass-scale implementation, still remains. The main focus will be on original and unpublished research and review articles in areas including, but not limited to, the following:

- Design, analysis, performance improvement, life-cycle cost and the assessment of thermal energy storage systems;
- Numerical and modelling aspects of thermal energy storage systems, including sensible, latent and thermochemical and their optimization;
- Management of intermittency issues in large scale solar power generation;
- Thermal energy storage systems for heating and hot water in residential and non-residential buildings: district heating, waste heat recovery at various temperature ranges.

Guest Editors

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Deadline for manuscript submissions

closed (25 November 2022)



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I encourage you to contribute a research or comprehensive review article for consideration for publication in Sustainability, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

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