

Special Issue

Sustainable Energy Storage Technologies with a Focus on Thermal Energy Storage

Message from the Guest Editors

The thermal energy storage topic has been extensively studied over the past years to propose productive methods for sustainable utilization of energy. The main aim of this Special Issue is to introduce technologies, which have high efficiency, low emission and cost. In this Special Issue, original research articles and reviews are welcome. Research areas may include the following:

- Proposing high-efficient, low emission and cost-effective technologies of thermal energy storage, covering the types of sensible heat, latent heat and chemical reaction heat;
- New materials for thermal energy storage and the relevant performance and advantages;
- Performance investigations and optimization of the TES in different occasions, such as power generation, desalination, aeronautics and astronautics, evaporation and crystallization, and so on;
- New application schemes between the TES technologies and kinds of sustainable energy
- Energy conversion and heat & mass transfer in the TES technologies;
- Evaluating and improving the reliability and resiliency of TES technologies;
- Control strategy and algorithm for the TES technologies.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2023)



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About the Journal

Message from the Editor-in-Chief

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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