



Highly Efficient Thermal Energy Storage (TES) Technologies

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Message from the Guest Editors

In recent years, the quest for sustainable and efficient energy storage solutions has gained significant momentum. Thermal energy storage (TES) technologies play a crucial role in enhancing the efficiency and reliability of energy systems. This Special Issue aims to collate cutting-edge research and advancements in the field of highly efficient TES technologies.

This Special Issue invites original research articles, reviews, and case studies that address a wide range of topics related to highly efficient TES technologies. Topics of interest include, but are not limited to, the following:

- Advanced materials for thermal energy storage;
- Phase change materials (PCMs) and their applications;
- Sensible, latent, and thermochemical storage systems;
- Novel designs and configurations of TES systems;
- Heat transfer enhancement in TES;
- The integration of TES with renewable energy sources;
- Thermal energy storage for industrial processes;
- The performance optimization and modeling of TES systems;
- Thermal energy storage for building applications;
- Thermal management and control strategies;
- Economic and environmental assessments of TES technologies.





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Message from the Editor-in-Chief

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