



*energies*



an Open Access Journal by MDPI

## Thermal Energy Storage Systems Modeling and Experimentation

Guest Editors:

**Dr. Chunrong Zhao**

Faculty of Engineering, The  
University of Sydney, Sydney  
2006, Australia

**Dr. Jianyong Wang**

School of Aeronautics &  
Astronautics, Sun Yat-sen  
University, Guangzhou 510275,  
China

Deadline for manuscript  
submissions:

**21 August 2024**

### Message from the Guest Editors

The Guest Editor is inviting submissions to a Special Issue of *Energies* on the subject area of ‘Thermal Energy Storage Systems Modelling and Experimentation’. Thermal energy storage (TES) systems are important to resolve the intermittence of renewable energies, such as solar thermal energy. Integrating TES into renewable energy systems can significantly enhance their reliability and stability while it also reduces the levelized cost of renewable electricity by virtue of its inherent low cost of thermal energy storage. Latent heat TES using phase change material (PCM) and thermochemical TES are very promising candidates, nevertheless, there are several significant challenges persisted, such as poor thermal conductivity of PCM, and integration methods.



[mdpi.com/si/183758](https://mdpi.com/si/183758)

# Special Issue



# energies



an Open Access Journal by MDPI

## Editor-in-Chief

### **Prof. Dr. Enrico Sciubba**

Department of Mechanical and  
Aerospace Engineering,  
University of Roma Sapienza, Via  
Eudossiana 18, 00184 Roma, Italy

## 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.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** CiteScore - Q1 (*Engineering (miscellaneous)*)

## Contact Us

---

*Energies* Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/energies](http://mdpi.com/journal/energies)  
[energies@mdpi.com](mailto:energies@mdpi.com)  
[X@energies\\_mdpi](https://x.com/energies_mdpi)