



Sustainable Energy Storage Technologies with a Focus on Thermal Energy Storage

Guest Editors:

Dr. Weifeng He

Prof. Dr. Majid Amidpour

Dr. Pan Zhao

Dr. Liang Lin

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

Dear Colleagues,

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.





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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. *Sustainability* publishes original research articles, review 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.

Author Benefits

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

High Visibility: indexed within Scopus, SCIE and SSCI (Web of Science), GEOBASE, GeoRef, Inspec, AGRIS, RePEc, CAPlus / SciFinder, and other databases.

Journal Rank: JCR - Q2 (*Environmental Studies*) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)