



## Thermal Energy Storage Systems

Guest Editors:

**Dr. Agus Pulung Sasmito**

Assistant Professor, Department  
of Mining and Materials  
Engineering, McGill University,  
Montreal, QC H3A2A7, Canada

**Dr. Ali G Madiseh**

Norman B. Keevil Institute of  
Mining Engineering, University of  
British Columbia, Vancouver, BC  
V6T 1Z4, Canada

**Dr. Jundika Candra Kurnia**

Department of Mechanical  
Engineering, Universiti Teknologi  
PETRONAS (UTP), Perak,  
Malaysia

Deadline for manuscript  
submissions:

**closed (30 June 2021)**

### Message from the Guest Editors

This Special Issue aims at gathering the best papers on development and applications of thermal energy storage.

Thermal energy storage is gaining considerable market and academic interest. It offers the possibility to bridge the mismatch between energy supply and demand, to smooth input temperature for certain applications, and increase overall system efficiency. Unsurprisingly, it has gained significant attention from researchers worldwide. To expedite the development of thermal energy storage, studies on the heat transfer mechanism, thermal properties of the storage medium, and various performance enhancement strategies are needed.

We welcome both experimental and computational studies. Topics of interest for this Special Issue include but are not limited to:

- Heat transfer enhancement in thermal energy storage;
- Novel storage medium (material) for thermal energy storage;
- Thermal energy storage in electronic, building, and other applications;
- Thermal energy storage management systems.





an Open Access Journal by MDPI

## Editor-in-Chief

**Prof. Dr. Giulio Nicola Cerullo**

Dipartimento di Fisica,  
Politecnico di Milano, Piazza L.  
da Vinci 32, 20133 Milano, Italy

## Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

## 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, Inspec, CAPlus / SciFinder, and other databases.

**Journal Rank:** JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)

## Contact Us

---

*Applied Sciences* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

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

[mdpi.com/journal/applsci](http://mdpi.com/journal/applsci)  
[applsci@mdpi.com](mailto:applsci@mdpi.com)  
[X@Applsci](https://twitter.com/Applsci)