



## Design and System Integration of Thermal Energy Storage: Volume 2

Guest Editors:

**Dr. Valeria Palomba**

National Council of Research,  
Institute for Advanced Energy  
Technologies (CNR ITAE), 98126  
Messina, Italy

**Dr. Giuseppe Dino**

National Council of Research,  
Institute for Advanced Energy  
Technologies (CNR ITAE),  
Messina, Italy

Deadline for manuscript  
submissions:

**closed (30 September 2022)**

### Message from the Guest Editors

The optimal design and integration of thermal energy storage could let to achieve encouraging results in terms of energy saving and thermal load management, especially in systems in which different user profile are supplied by the same source

To this aim, we encourage works from both industry and academia focusing (but not limiting) on the following topics:

- Thermal energy storage for sustainable communities;
- Thermal energy storage for district heating and cooling applications;
- Optimal design and integration of Thermal Energy Storages
- Life Cycle Analysis of energy systems equipped with TES;
- Design methodologies for Thermal Energy Storage;
- Numerical simulation and optimisation techniques;
- Active TES systems;
- Passive TES systems;
- Application of TES in the residential sector;
- Application of TES in the tertiary sector;
- Development of control strategies for TES;
- Thermal energy storage for demand response;
- Thermal energy storage for grid applications;
- Thermal energy storage for renewable energy integration;





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

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

## Contact Us

---

*Applied Sciences* 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/applsci](http://mdpi.com/journal/applsci)  
[appls@mdpi.com](mailto:appls@mdpi.com)  
[X@Appls](https://twitter.com/appls)