

## Special Issue

# Advances in Thermal Energy Storage in Buildings Incorporating Phase-Change Materials

### Message from the Guest Editors

An attempt to make buildings more energy and resource efficient leads to a broad number of possible combinations of energy-saving strategies that can be improved using phase-change materials (PCMs). This Special Issue intends to present a collection of studies describing the latest developments in the field of technological advances in applications of PCMs in building systems and construction solutions. It aims to provide an up-to-date overview of current research work and future trends in this field. Topics of interest include:

- development of novel phase-change materials;
- modeling and simulation of phase-change materials and systems;
- case studies of energy-efficient buildings incorporating PCMs (passive and active solutions);
- phase-change materials for novel applications;
- novel applications of PCMs in building solutions and components;
- industrial applications using PCMs; and
- reviews of PCM applications in buildings.

---

### Guest Editors

Dr. António Figueiredo

Dr. António Samagaio

Dr. Romeu da Silva Vicente

Dr. Dariusz Heim

---

### Deadline for manuscript submissions

closed (31 July 2021)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/54523](https://mdpi.com/si/54523)

*Applied Sciences*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[applsci@mdpi.com](mailto:applsci@mdpi.com)

[mdpi.com/journal/applsci](https://mdpi.com/journal/applsci)





# Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/journal/  
applsci](https://mdpi.com/journal/applsci)



## About the Journal

### 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.

---

### Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo  
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,  
20133 Milano, Italy

---

### 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 )