

## Special Issue

# Advanced Applications of Phase Change Materials

### Message from the Guest Editors

Phase change materials (PCM) are becoming more and more popular for their use in different thermal energy storage (TES) systems. These materials can store and release high amounts of energy by latent heat and reduce the size and weight of systems based on conventional materials (water, rocks, etc.). They can be also coupled with renewable energy-based systems or use to shift the peak load. PCMs are suitable for implementation in multiple applications, ranging from buildings, the cooling of electronic devices, batteries, biomedical and industrial processes, concentrating solar power or solar cooling plants, to name a few. This Special Issue will publish the best research and review papers on the development and enhancement of PCMs, their testing at the lab or prototype scale, the development of dedicated numerical models, and more especially on their use in advanced applications.

Prof. Ponce Sébastien

Prof. Mancin Simone

---

### Guest Editors

Prof. Dr. Sébastien Ponce

Department of Mechanical Engineering, Université de Sherbrooke,  
Sherbrooke, QC J1K 2R1, Canada

Dr. Simone Mancin

Department of Management and Engineering, University of Padova,  
36100 Vicenza, Italy

Prof. Dr. Dominic Groulx

Dalhousie University, Canada

---

### Deadline for manuscript submissions

closed (15 February 2019)



## Applied Sciences

---

an Open Access Journal  
by MDPI

---

Impact Factor 2.5  
CiteScore 5.5



[mdpi.com/si/18865](https://mdpi.com/si/18865)

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

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

[appls](https://appls.mdpi.com)





# 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 )