



## Thermal Energy Storage, Heat Transfer and Sustainable Energy Technologies

Guest Editors:

**Prof. Dr. Fatih Selimefendigil**

Department of Mechanical  
Engineering, Manisa Celal Bayar  
University, Manisa 45140, Turkey

**Prof. Dr. Hakan F. Öztöp**

Department of Mechanical  
Engineering, Technology Faculty,  
Firat University, Elazig, Turkey

Deadline for manuscript  
submissions:

**closed (30 October 2023)**

### Message from the Guest Editors

As the cost and demand of energy rise with increasing population growth and industrialization, strict regulations for energy-related products to curb their environmental impact are needed. Therefore, a deep understanding of the physical mechanisms of the transport processes in heat transfer equipment and novel methods to improve thermal performance are needed. The development of sustainable energy technologies and energy storage techniques in thermal energy systems is crucial to producing compact energy-efficient products with less impact on the environment. Application areas for such technology include solar power, refrigeration, electronic cooling, building energy, drying, waste heat recovery, battery thermal management and many others. Material selection, operating point and geometric optimization of thermal devices are critical for achieving a high performance.

This Special Issue will act as a forum, allowing researchers to present their latest theoretical, experimental or computational results in the field of energy storage, heat transfer, porous media, mass transfer and sustainable energy system 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](http://www.mdpi.com)

[mdpi.com/journal/sustainability](http://mdpi.com/journal/sustainability)  
[sustainability@mdpi.com](mailto:sustainability@mdpi.com)  
[X@Sus\\_MDPI](https://twitter.com/Sus_MDPI)