



## Energy Efficient Sustainable Cooling Systems

Guest Editor:

**Prof. Dr. Muhsin Kilic**

Department of Mechanical  
Engineering, Faculty of  
Engineering, Bursa Uludag  
University, 16130 Bursa, Turkey

Deadline for manuscript  
submissions:

**closed (30 September 2023)**

### Message from the Guest Editor

Dear Colleagues,

The cooling systems are mandatory to maintain optimal media temperature and provide an environment for all the equipment to work properly, material kept safely, or humans to feel comfortable. However, several types of cooling technologies that are used to maintain the required cooling effect consume large amounts of energy. Recent trends in cooling systems focus on low energy consumption, long operation life, high reliability, and low environmental impact, as well as superior performance and application flexibility, as opposed to traditional cooling systems. Therefore, innovative cooling systems with efficient energy management are vital for many commonly used systems, including: HVAC applications, internal combustions engines, turbines, compressors, fuel cells, electric vehicles, batteries, lighting, electronics, solar photo-voltaic (PV) and PVT applications, etc. This special issue should include works discussing the above aspects, with some emphasis on cooling systems, as well as proposing methods, techniques, materials and interventions for the improvement of cooling technologies.

Prof. Dr. Muhsin Kilic

*Guest Editor*





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)