



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, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)