

## Special Issue

# Advancements in Thermal Engineering: Innovations for Sustainable Energy Systems

### Message from the Guest Editors

The aim of this Special Issue is to showcase cutting-edge research and insightful reviews that explore how advanced thermal engineering solutions can drive sustainable energy transformation. Aligned with the interdisciplinary scope of the Sustainability journal, this issue seeks to highlight not only technological developments but also their system-level integration, environmental impact, and practical implementation in energy systems. We especially welcome work that bridges science and application, demonstrating how thermal innovations contribute directly to real-world energy challenges. We encourage submissions across a diverse range of topics, including but not limited to:

- Solar thermal energy systems and concentrating solar collectors
- Solar drying technologies for agriculture and biomass
- Phase change materials and thermal energy storage systems
- Solar industrial process heat (SIPH) applications
- Thermochemical and hybrid energy conversion systems
- Waste heat recovery and heat integration in process industries
- Thermal systems modeling, simulation, and optimization
- Digitalization and AI-driven control in thermal energy management

---

### Guest Editors

Dr. Zoltán Szamosi  
Dr. Baibhaw Kumar  
Dr. Katalin Voith

---

### Deadline for manuscript submissions

closed (31 May 2026)



Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



[mdpi.com/si/242943](https://mdpi.com/si/242943)

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

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





## Sustainability

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.3  
CiteScore 7.7



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



# About the Journal

## 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. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full 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.

---

## Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and Natural Resources, Ohio State University,  
Columbus, OH 43210, USA

---

## 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, RePEc, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q2 (Environmental Studies) / CiteScore - Q1  
(Geography, Planning and Development)