

Special Issue

Energy Conservation Towards a Low-Carbon and Sustainability Future

Message from the Guest Editors

Saving energy and transitioning to a low-carbon, sustainable future is gaining attention in the environmental and energy research community, particularly in energy efficiency, renewable energy, the built environment, and industrial processes. Utilizing data analysis and AI technologies like neural networks and machine learning allows for a data-driven evaluation of energy efficiency. This approach reduces unnecessary influencing factors, establishes energy savings models quickly, and aids in achieving energy conservation and carbon emission reductions, ultimately improving environmental efficiency.

In this Special Issue, original research articles and reviews are welcome and research areas may include, but are not limited to:

- Industrial process optimization;
- Energy efficiency improvements;
- Renewable energy technology;
- Smart grids and energy storage;
- The integration and optimization of renewable energy systems;
- Carbon capture and storage technology;
- High-performance mechanical system design;
- Energy data analysis;
- Automation and control systems;
- New energy materials.

Guest Editors

Prof. Dr. Yongming Han

College of Information Science and Technology, Beijing University of Chemical Technology, Beijing 100029, China

Dr. Xuan Hu

College of Information Science and Technology, Beijing University of Chemical Technology, Beijing 100029, China

Deadline for manuscript submissions

closed (25 May 2026)



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/218004

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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)