

Special Issue

Empowering Safe and Sustainable Hydrogen Energy Systems: Challenges, Innovations

Message from the Guest Editor

Through this collaborative effort, we aim to foster knowledge exchange, spur innovation, and pave the way for a hydrogen-powered sustainable future. Potential topics related to hydrogen include the following:

- Advanced hydrogen production technologies (e.g., electrolysis, reforming, biomass conversion);
- Hydrogen storage materials and techniques (e.g., solid-state storage, chemical storage);
- Hydrogen transportation and distribution infrastructure;
- Safety standards and risk assessment in hydrogen handling and storage;
- Hydrogen fuel cells: efficiency, durability, and cost reduction strategies;
- Life cycle assessment of hydrogen production and utilization systems;
- Hybrid energy systems: integration of hydrogen with renewable energy sources;
- Hydrogen applications in industry and power generation;
- Policy frameworks and regulatory mechanisms to promote hydrogen adoption;
- Socio-economic impacts and public acceptance of hydrogen technologies.

Guest Editor

Dr. Mohammad Yazdi

School of Engineering, Faculty of Science and Engineering, Macquarie University, Sydney, NSW, Australia

Deadline for manuscript submissions

15 January 2026



Sustainability

an Open Access Journal
by MDPI

Impact Factor 3.3
CiteScore 7.7



mdpi.com/si/198609

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)