

## 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.

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### Guest Editor

Dr. Mohammad Yazdi

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### Deadline for manuscript submissions

closed (15 January 2026)



Sustainability

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# 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.

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## Editor-in-Chief

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