

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

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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.

Editor-in-Chief

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