

Special Issue

Sustainable Research on Hydrogen Energy and Hydrogen Storage

Message from the Guest Editor

This special issue invites cutting-edge research on hydrogen energy technologies to address global energy transition challenges. We seek contributions covering advanced hydrogen production (electrolysis, biomass conversion), innovative storage solutions

(compressed/liquid hydrogen, metal hydrides, chemical carriers), and transportation infrastructure. The issue will highlight applications across science and engineering, including mobility solutions and refueling technologies, while examining economic and environmental impacts. By sharing novel findings in materials development, system optimization, and policy frameworks, this collection aims to accelerate hydrogen's role in sustainable energy systems. We welcome both original research articles and comprehensive reviews that advance our collective knowledge in this critical field. Researchers are encouraged to submit work that bridges fundamental science with practical engineering applications, fostering collaboration across academia, industry, and policymaking communities to drive the hydrogen economy forward.

Guest Editor

Dr. Matthias Kuntz

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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. 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

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