

Special Issue

Advances in Sustainable Hydrogen Energy and Fuel Cell Research

Message from the Guest Editors

Over the past century, the extensive use of fossil fuels such as coal, oil, and natural gas has driven rapid industrial development, but it has also resulted in unprecedented environmental pollution, global warming, sea-level rise, and a series of escalating crises. To address these challenges, a broad global consensus has emerged around carbon neutrality, highlighting the urgent need for clean alternative energy sources and advanced energy-conversion pathways. This special issue will invite advanced technologies, original theories and trends in the field of hydrogen energy and fuel cells, including experimental research, numerical research, systematic research, review research, etc., to be peer-reviewed for publication. Topics suggested in this special issue include, but are not limited to: water electrolysis for hydrogen production, novel hydrogen production technologies, hydrogen-based fuels, high-pressure hydrogen storage and transportation, fuel cells, hydrogen-powered propulsion and mobility, hydrogen safety and standards/codes, and intelligent design and optimization of hydrogen energy systems.

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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.

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