# **Special Issue**

## Hydrogen and Fuel Cells: Innovations and Challenges, 2nd Edition

## Message from the Guest Editors

As a green and renewable energy source, hydrogen presents one of the most important directions for future energy development, which has flourished globally in recent years with broad market prospects. The largescale utilization of renewable energy for hydrogen production cuts the cost of obtaining hydrogen. Furthermore, the continuous improvement of fuel cell technology and hydrogen storage technology strengthens the integration of hydrogen energy with smart grids and vehicles to reduce holistic carbon emissions and promote sustainable development.

- Hydrogen generation and transmission in smart grids;
- Hydrogen storage and transportation for multi-energy systems;
- Hydrogen vehicles for resilience enhancement;
- Fuel cell control with hydrogen fuel;
- Optimal operation of the hydrogen-based microgrid;
- Smart operation of hydrogen sources via artificial intelligence;
- Smart grid integration of hydrogen systems;
- Electronics-enabled carbon emission monitoring and reduction in hydrogen infrastructure;
- Energy-efficient heat recycling technologies in hydrogen systems;
- Digitalization and electronic control in the hydrogen energy market.

## **Guest Editors**

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Dr. Zening Li

Dr. Zhengmao Li

## Deadline for manuscript submissions

15 November 2025



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## Message from the Editor-in-Chief

*Electronics* is a multidisciplinary journal designed to appeal to a diverse audience of research scientists, practitioners, and developers in academia and industry. The journal is devoted to fast publication of latest technological breakthroughs, cutting-edge developments, and timely reviews of current and emerging technologies related to the broad field of electronics. Experimental and theoretical results are published as regular peer-reviewed articles or as articles within Special Issues guest-edited by leading experts in selected topics of interest.

## Editor-in-Chief

Prof. Dr. Flavio Canavero Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

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