





an Open Access Journal by MDPI

# **Hydrogen and Fuel Cells: Innovations and Challenges**

Guest Editors:

**Dr. Hanqing Yang** 

Dr. Jiajia Yang

Dr. Zening Li

Dr. Zhengmao Li

Deadline for manuscript submissions:

15 July 2024

### **Message from the Guest Editors**

As a green and renewable energy source, hydrogen is considered one of the most important directions for future energy development. 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. Compared with conventional renewable energies, there are also many challenges associated with global hydrogen utilization.

In this Special Issue, both original research articles and reviews are welcomed. Research areas may include (but are not limited to) the following:

- Hydrogen generation and transmission in smart grid
- Hydrogen storage and transportation for multienergy system
- Hydrogen vehicles for resilience enhancement
- Fuel cell controlling with hydrogen fuel
- Optimal operation of the hydrogen-based microgrid
- Smart operation of hydrogen sources via artificial intelligence
- Economics of hydrogen systems in smart grid
- Carbon-emission reduction in hydrogen infrastructure
- Heat recycling of hydrogen systems
- Hydrogen energy market



**Special**sue







an Open Access Journal by MDPI

### **Editor-in-Chief**

#### Prof. Dr. Flavio Canavero

Department of Electronics and Telecommunications, Politecnico di Torino, 10129 Torino, Italy

## **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.

#### **Author Benefits**

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science),

CAPlus / SciFinder, Inspec, and other databases.

**Journal Rank:** JCR - Q2(*Electrical and Electronic Engineering*) CiteScore - Q2 (*Electrical and Electronic Engineering*)

#### **Contact Us**