## Special Issue

## Advances in Electrocatalysts for Hydrogen Evolution and Fuel Cells

### Message from the Guest Editors

Moving towards a sustainable zero-carbon society, water electrolyzers and fuel cells represent promising hydrogen energy storage and conversion devices. Unfortunately, the cost, activities, and stabilities of electrocatalysts for key half-reactions, i.e., the hydrogen evolution reaction (HER), the hydrogen oxidation reaction (HOR), and the oxygen reduction reaction (ORR), have seriously limited the scalability and efficiency of hydrogen energy-related technologies to date. This Special Issue aims to combine experimental, theoretical, and review articles to present the most recent advances in the topics of material synthesis. morphological characterization, modeling, reaction mechanism, catalytic performance, mass transport, electrolyzer/cell structure design, and all other aspects of hydrogen electrocatalysts.

### **Guest Editors**

Dr. Yaqi Cheng

School of Chemical Engineering, Dalian University of Technology, Chemical Experiment Building, West Campus, Dalian 116024, China

Dr. Qilun Wang

Department of Materials Science and Engineering, City University of Hong Kong, Kowloon, Hong Kong

### Deadline for manuscript submissions

10 November 2025



# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



mdpi.com/si/223812

Energies
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
energies@mdpi.com

mdpi.com/journal/energies





# **Energies**

an Open Access Journal by MDPI

Impact Factor 3.2 CiteScore 7.3



### **About the Journal**

### Message from the Editor-in-Chief

Energies is an international, open access journal in energy engineering and research. The journal publishes original papers, review articles, technical notes, and letters. Authors are encouraged to submit manuscripts which bridge the gaps between research, development and implementation. The journal provides a forum for information on research, innovation, and demonstration in the areas of energy conversion and conservation, the optimal use of energy resources, optimization of energy processes, mitigation of environmental pollutants, and sustainable energy systems.

### Editor-in-Chief

Prof. Dr. Enrico Sciubba

Department of Mechanical and Industrial Engineering, University Niccolò Cusano, 00166 Roma, Italy

### **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), Ei Compendex, RePEc, Inspec, CAPlus / SciFinder, and other databases.

### Journal Rank:

CiteScore - Q1 (Control and Optimization)

