## Special Issue

# Innovations in Fuel Cell and Electrolyzer Technology: Enhancing Efficiency with Power Electronic Converters and Expanding Applications

## Message from the Guest Editors

This Special Issue focuses on innovations in fuel cell and electrolyzer technology, as well as the role of power electronic converters in improving efficiency and broadening applications. Topics of interest for publication include, but are not limited to, the following:

- Hydrogen production, storage, distribution, transportation, and applications;
- Various types of fuel cells and electrolyzers;
- Power converter topologies for electrolyzer application;
- Power converter topologies for fuel cell application;
- Smart transformer for fuel cell and electrolyzer applications;
- Hardware-in-the-loop testing or real-time simulation aspects;
- Pre-compliance testing of electrolyzers and grid codes:
- Flexibility services.

#### **Guest Editors**

Dr. Issam Salhi

Dr. Muhammad Umair Mutarraf

Dr. Qin Wang

### Deadline for manuscript submissions

24 November 2025



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

mdpi.com/journal/ energies





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### 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

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