Special Issue

Proton-Exchange Membrane (PEM) Fuel Cells and Water Electrolysis

Message from the Guest Editors

As the global energy structure has transitioned toward cleaner and lower-carbon systems in recent years, hydrogen energy has emerged as a vital component of the new energy paradigm, owing to its high energy density and zero carbon emissions. Against this backdrop, proton-exchange membrane fuel cells and water electrolysis technologies play pivotal roles in hydrogen utilization and green hydrogen production technologies, respectively. This Special Issue aims to solicit contributions of modeling studies, experimental investigations, and review articles related to proton-exchange membrane fuel cells and electrolyzers. Submissions concerning other types of fuel cell research are also invited. Topics of interest for publication include, but are not limited to, the following:

- Multiphysics modeling approaches;
- Analysis of static and dynamic characteristics;
- Advanced control methodologies;
- Emerging catalytic materials;
- Health state monitoring and fault diagnosis;
- System integration and optimization;
- Energy management strategies.

Guest Editors

Dr. Dongqi Zhao

Dr. Ze Zhou

Dr. Xiaolong Wu

Deadline for manuscript submissions

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

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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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