Special Issue

Trends and Prospects in Fuel Cell Towards Industrialization

Message from the Guest Editors

Fuel cells, especially proton exchange membrane fuel cells, are moving towards industrialization. After several decades of development, the durability, reliability, and low-cost material design still represent challenges. The main limitation is our unclear knowledge of reactant behaviours at three-phase boundaries, the macroscopic preparation of low-cost materials coupled with poor performance, and high-efficiency optimization and control of systems. This Special Issue focuses on new technologies of fuel cells and we encourage researchers to submit papers on the following topics: electrochemical reaction investigation and characterization, precious-group-metal-free catalysts and low loading PGM catalyst design, high-efficiency mass and electron transfer, system design, optimization, and optimal control. We welcome submissions that display originality in the form of research papers, reviews, and other corresponding forms.

Guest Editors

Dr. Yuehua Li

School of Mechanical Engineering, University of Science and Technology Beijing, Beijing, China

Dr. Peng Ren

School of Vehicle and Mobility, Tsinghua University, Beijing 100084, China

Deadline for manuscript submissions

15 January 2026

Energies

an Open Access Journal by MDPI

Impact Factor 3.2
CiteScore 7.3

mdpi.com/si/227933

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

mdpi.com/journal/energies

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)