

Special Issue

Fuel Cell Technologies in Power Generation and Energy Recovery

Message from the Guest Editors

This Special Issue will gather recent advances, novel designs, and applied research related to using fuel cells in power generation and energy recovery. Topics of interest include, but are not limited to, the development of high-efficiency fuel cell systems such as proton exchange membrane fuel cells (PEMFCs), solid oxide fuel cells (SOFCs), and direct methanol fuel cells (DMFCs), as well as hybrid configurations incorporating batteries, supercapacitors, or renewable energy sources. This Special Issue also encourages submissions focusing on fuel cell materials and components, including catalyst development, membrane electrode assembly (MEA) optimization, bipolar plate design, and flow field/channel structure innovations for improving electrochemical performance, water and heat management, and system durability. In addition, we welcome studies on system-level integration, control strategies, degradation mechanisms, durability prediction, fault diagnosis, fuel processing technologies, and techno-economic assessments related to fuel cell deployment in power generation and energy recovery applications.

Guest Editors

Dr. Zhihua Deng

Dr. Lixin Fan

Prof. Dr. Magdalena Dudek

Dr. Shengqiu Zhao

Deadline for manuscript submissions

1 January 2026



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/239497

Applied Sciences
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls-ci@mdpi.com

[mdpi.com/journal/
appls-ci](https://mdpi.com/journal/appls-ci)





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



[mdpi.com/journal/
applsci](https://mdpi.com/journal/applsci)



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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, Inspec, CAPlus / SciFinder, and other databases.

Journal Rank:

JCR - Q2 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)