

Special Issue

Advances in Solid-Oxide Fuel Cell Technology

Message from the Guest Editors

Solid oxide fuel cells (SOFC) convert chemical energy in the form of fuel, such as a hydrocarbon or hydrogen, directly into electrical energy and heat. However, unlike batteries, which store their reactants within a cell, the reactants are fed continuously to it from external stores. SOFC have the potential to offer both stationary and portable power to the community, whilst having the potential to minimize and eliminate pollution. This can then go forward to decentralized power grids in the long term. This Special Issue therefore seeks to contribute to advances in SOFC and fuel cell systems by enhancing scientific and multidisciplinary knowledge in the sector. We invite authors to submit original research articles, review articles, and significant preliminary communications covering (but not limited to) the following topics and scopes:

- Anode and cathode materials development;
- Interconnects;
- Seals and sealants for SOFC;
- Stack designs and modelling;
- Portable and stationary SOFC generators and applications;
- Hydrocarbon fuel reforming for SOFC.

Guest Editors

Dr. Aman Dhir

Chemical Engineering, Faculty of Science and Engineering, University Of Wolverhampton, Wolverhampton WV1 1LY, UK

Prof. Dr. Kevin Kendall

School of Metallurgy and Materials, University of Birmingham, Edgbaston, Birmingham B15 2TT, UK

Deadline for manuscript submissions

closed (30 October 2021)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.5



mdpi.com/si/51513

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





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)