



*materials*



an Open Access Journal by MDPI

## Advances in Solid Oxide Cell Materials

Guest Editor:

**Prof. Dr. Robert Steinberger-Wilckens**

School of Chemical Engineering,  
University of Birmingham,  
Birmingham B15 2TT, UK

Deadline for manuscript  
submissions:

**closed (20 April 2022)**

### Message from the Guest Editor

Dear Colleagues,

This Special Issue on “Advances in Solid Oxide Cell Materials” will explore recent developments on developing novel materials for Solid Oxide Fuel Cells that successfully address the problems of carbon formation, redox cycling, sulphur poisoning, thermal cycling, and degradation. Papers addressing materials developments for Solid Oxide Electrolysis and reversible SOFC will be just as welcome. The contributions to the Special Issue should describe and prove novel developments with a high potential for solving aforementioned problems, showcasing their suitability in relevant and sufficiently long fuel cell and electrolyser experiments.

Prof. Dr. Robert Steinberger-Wilckens  
*Guest Editor*



[mdpi.com/si/12198](https://mdpi.com/si/12198)

**Special** Issue



an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Maryam Tabrizian

1. Department of Biomedical Engineering, Faculty of Medicine and Health Sciences, McGill University, Montreal, QC H3A 2B6, Canada

2. Faculty of Dentistry and Oral Health Sciences, McGill University, 3640 Rue University, Montreal, QC H3A 0C7, Canada

## Message from the Editor-in-Chief

*Materials* (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

## 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), PubMed, PMC, Ei Compendex, CaPlus / SciFinder, Inspec, Astrophysics Data System, and other databases.

**Journal Rank:** JCR - Q1 (Metallurgy and Metallurgical Engineering) / CiteScore - Q2 (*Condensed Matter Physics*)

## Contact Us

---

Materials Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/materials](http://mdpi.com/journal/materials)  
[materials@mdpi.com](mailto:materials@mdpi.com)  
[X@Materials\\_Mdpi](https://twitter.com/Materials_Mdpi)