



an Open Access Journal by MDPI

## Novel Materials for Green Hydrogen Production, Energy Conversion, and Fuel Cell Applications

Guest Editors:

**Dr. Tsang Chi-Wing**

Technological and Higher  
Education Institute of Hong Kong  
(THEi), Hong Kong

**Dr. Manas Kumar Sarkar**

Institute of Textiles & Clothing,  
Hong Kong Polytechnic  
University, Hong Kong

Deadline for manuscript  
submissions:

**closed (10 December 2023)**

### Message from the Guest Editors

Dear Colleagues,

Recent years have witnessed fascinating developments in various fields of catalysis and the step-by-step transformation of scientific progress into novel technologies, which as a rule, exhibit not only a substantially enhanced catalytic performance but are also friendly towards energy production and the environment. The field of heritage conservation, with all its traditionalism and multidisciplinary, also profited from this development. However, the specific features of this field have led to a considerable scattering of the literary sources and a lack of mutual information between all the relevant subjects.

This Special Issue should help to overcome these problems. It provides an opportunity to create a compendium of the novel methods, which will not only boost further scientific progress in the field of green hydrogen production and fuel cell applications but also provide researchers with a useful literary overview. It is focused on advanced solutions to fundamental problems in hydrogen production, the perceptions of which are often far ahead of their solutions.

Dr. Tsang Chiwing

Dr. Manas Kumar Sarkar

*Guest Editors*



[mdpi.com/si/97185](https://mdpi.com/si/97185)

# 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 - Q2 (Metallurgy and Metallurgical Engineering) / CiteScore - Q1 (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)