

Special Issue

Metal-based Heterogeneous Catalysts for Hydrogen Generation/Production

Message from the Guest Editor

Catalysis has always played a major role in the field of energy, especially for developing new, sustainable energy sources and carriers.

Today many efforts are dedicated to make hydrogen H₂ one of the most important sustainable energy carriers. It has to be generated from a hydrogenated source through a chemical process, and catalysis, especially metal-based heterogeneous catalysis, is greatly important, even central, to the process.

The present Special Issue is focused on the central role of metal-based heterogeneous catalysis and photocatalysis in the production/generation of H₂ from a wide variety of sources. It is our pleasure to invite you to submit a manuscript for this Special Issue. Full papers, communications, and reviews... are welcomed. Prof. Dr. Umit B. Demirci

Guest Editor

Prof. Dr. Umit Bilge Demirci
Department of Chemistry, University of Montpellier, Montpellier, France

Deadline for manuscript submissions

closed (31 January 2022)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.0
Indexed in PubMed

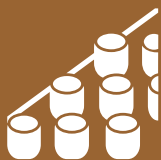


mdpi.com/si/14643

Materials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
materials@mdpi.com

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





Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 7.0
Indexed in PubMed



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



About the Journal

Message from the Editorial Board

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.

Editors-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

Prof. Dr. Yuguang Ma

State Key Laboratory of Luminescent Materials and Devices, South China University of Technology, Guangzhou 510640, China

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)