

## Special Issue

# Advanced Materials for Efficient Electrocatalytic Hydrogen Production

### Message from the Guest Editors

In this Special Issue, we are inviting scientists and researchers to share their findings in efforts to generate hydrogen effectively using inexpensive advanced materials, such as transition-metal-based heteroatomic nanostructures, carbon- and non-carbon-based catalysts and supports, perovskites and their novel structures, such as single atoms, doping and alloying of metal and non-metal elements, etc. Different aspects of studies on the synthesis and characterization or evaluation of activity and degradation mechanisms of catalysts will be covered to provide fundamental insight into the development of high-efficiency hydrogen generation.

### Guest Editors

Prof. Dr. Mohammad Asadi

Illinois Institute of Technology, Chicago, IL 60616, USA

Dr. Bijandra Kumar

Department of Mathematics, Computer Science and Engineering Technology, Elizabeth City State University, 1704 Weeksville Road, Elizabeth City, NC 27909, USA

### Deadline for manuscript submissions

closed (15 December 2020)



## Catalysts

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/48776](https://mdpi.com/si/48776)

*Catalysts*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[catalysts@mdpi.com](mailto:catalysts@mdpi.com)

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





# Catalysts

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 7.6



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



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan,  
KS, USA

---

#### Author Benefits

##### High Visibility:

indexed within Scopus, SCIE (Web of Science), Inspec, Ei Compendex, CAPlus / SciFinder, CAB Abstracts, and other databases.

##### Journal Rank:

JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science )

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).