## **Special Issue**

## Recent Advances in Energy-Related Materials in Catalysts, 3rd Edition

### Message from the Guest Editors

This Special Issue will be devoted to all aspects of recent research progress in the design and development of high-efficiency materials for applications in renewable and sustainable energy production, e.g., next-generation fuel cells, batteries, electrolyzers, and solar cells. We invite submissions in the form of original research articles, short communications, and reviews that involve the synthesis of novel materials: investigations into the mechanisms and kinetics behind the electro-oxidation of fuels, such as methanol, ethanol, formic acid, sodium borohydride. and hydrazine; and the conversion of carbon monoxide (CO), oxygen reduction (ORR), oxygen evolution (OER), hydrogen evolution (HER), and carbon dioxide (CO2), among others. This Special Issue will not be limited to the abovementioned topics; we also welcome manuscripts on the latest achievements and challenges and future opportunities in relation to the integration of novel materials into efficient energy conversion and storage systems.

#### **Guest Editors**

Dr. Loreta Tamasauskaite-Tamasiunaite

Department of Catalysis, Center for Physical Sciences and Technology, Saulėtekio Ave. 3, LT-10257 Vilnius, Lithuania

Dr. Virginija Kepeniene

Department of Catalysis, Center for Physical Sciences and Technology, Saulėtekio Ave. 3, Vilnius, Lithuania

### Deadline for manuscript submissions

31 October 2025



# **Catalysts**

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



mdpi.com/si/234797

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

mdpi.com/journal/catalysts





# **Catalysts**

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



### **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).

