Special Issue

Metal Oxide-Supported Catalysts

Message from the Guest Editor

We are pleased to invite you to contribute to this Special Issue, which will highlight the latest research and technological developments in this field of metal oxide-supported catalysts. Topics of interest include, but are not limited to, the following:

- Synthesis and Design of Metal Oxide-Supported Catalysts:
- Tailored metal-support interactions;
- Structural and morphological control of metal oxides;
- Functionalization of oxide supports for improved catalytic activity.
- Characterization and Mechanistic Insights:
- In situ/operando spectroscopy and microscopy studies;
- Computational modeling and theoretical insights;
- Surface chemistry and reaction mechanisms.
- Applications in Catalysis:
- CO2 reduction and utilization;
- Hydrogen production and water splitting;
- Selective oxidation and hydrogenation reactions;
- Environmental catalysis (e.g., NOx reduction, VOC removal);
- Biomass conversion and green chemistry applications.

We look forward to receiving your valuable contributions to this Special Issue.

Guest Editor

Dr. Lan Zhang

- 1. Energy Research Institute @NTU, Nanyang Technological University, Singapore 637553, Singapore
- 2. China-Singapore International Joint Research Institute (CSIJRI), Guangzhou 510663, China

Deadline for manuscript submissions

closed (15 October 2025)



Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



mdpi.com/si/230861

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).

