

## Special Issue

# Metal-Support Interactions for Advanced Catalysis

### Message from the Guest Editors

Supported metal catalysts are an important category of heterogeneous catalysts and are widely applied in various industrial chemical reactions. Metal-support interactions play essential roles in the dispersion of metals with a high surface area and the stabilization of metal particles during catalysis. Such interactions could also have a substantial impact on the shape of the metal particles (e.g., two dimensional versus three dimensional ones), thus tuning catalytic performance remarkably. Therefore, understanding metal-support interactions is essential for tuning the activity, selectivity and stability of oxide-supported metal catalysts. This Special Issue is focused on, but not limited to, recent progress in characterization, understanding and application of metal-support interactions in heterogeneous catalysis.

---

### Guest Editors

Prof. Dr. Junling Lu

Hefei National Laboratory for Physical Sciences at the Microscale,  
Department of Chemical Physics, University of Science and Technology  
of China, Hefei, China

Prof. Dr. Qiang Fu

Dalian Institute of Chemical Physics, Chinese Academy of Sciences,  
Dalian 116023, China

---

### Deadline for manuscript submissions

closed (30 September 2022)



## Catalysts

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/81343](https://mdpi.com/si/81343)

*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 15.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).