

## Special Issue

# Single-Atom Catalysts (SACs)

### Message from the Guest Editors

Single-atom catalysts (SACs) featuring isolated metal atoms dispersed on supports with maximized atom utilization have received extensive attention in various catalytic processes. In recent years, with the rapid development of SACs and novel technologies, tremendous progress has been made in this area, ranging from their preparation and characterization to the application of SACs. This Special Issue will focus on these different aspects; in particular (but not limited to) the development of new methods for efficient, economic, or large-scale preparation of SACs, characterization or theoretical analysis of the coordination structure of single-metal sites, applications of SACs in the areas of thermo-, electro, or photocatalytic energy conversion reactions, biomass conversion, batteries and beyond. Both review and original research articles related to the above scope are welcome.

### Guest Editors

Dr. Leiduan Hao

College of Chemical Engineering, Beijing University of Chemical Technology, Beijing 100029, China

Dr. Jilei Xu

Dalian National Laboratory for Clean Energy, Dalian Institute of Chemical Physics, Chinese Academy of Sciences, Dalian 116023, China

### Deadline for manuscript submissions

closed (15 March 2024)



## Catalysts

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/157574](https://mdpi.com/si/157574)

*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).