

## Special Issue

# Carbon Materials for Electrocatalysis

### Message from the Guest Editor

Electrocatalysis plays a crucial role in a wide range of technologies, from energy conversion and storage to chemical synthesis and environmental remediation. Carbon materials are widely used for electrocatalysis due to their unique properties such as high electrical conductivity, large surface area, and tuneable physical and chemical properties. This Special Issue aims to collect the most recent scientific advancements related to carbon materials for electrocatalysis. In particular, the following aspects are considered:

(i) research and development on the formation, structure, properties, and behaviours of novel carbon materials for electrocatalysis;

(ii) functionalization of carbon surfaces for electrocatalytic applications;

(iii) technological application and the related electrocatalytic reaction process of a broad class of carbon materials in electrocatalysis including but not limited to fuel cells, hydrogen energy, environmental treatment, and transformation. In this Special Issue, original research articles and reviews are welcome. I look forward to receiving your contributions.

---

### Guest Editor

Prof. Dr. Xiaohua Zhang

State Key Laboratory of Chemo/Biosensing and Chemometrics,  
College of Chemistry and Chemical Engineering, Hunan University,  
Changsha 410082, China

---

### Deadline for manuscript submissions

closed (15 February 2025)



## Catalysts

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/215536](https://mdpi.com/si/215536)

*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).