

## Special Issue

# Enzyme Catalysis: Advances, Techniques and Outlooks

### Message from the Guest Editors

Enzymes as natural catalysts have been widely used in various fields, including pharmaceuticals, food manufacturing, biofuels, cosmetic products, and as tools for research and development. Enzyme catalysis has been developed into a rather mature technology and as an alternative to chemical catalysis in recent decades, especially to make chiral compounds for pharmaceuticals as well for chemically challenging reactions. Supported by modern bioinformatics and computer-assisted enzyme discovery and engineering, abundant new enzymes or variants with excellent properties have been rapidly identified for numerous applications. This Special Issue intends to discuss the advances, state-of-the-art techniques, limitations and opportunities and provide an outlook on the development and improvement of enzyme catalysis. We aim to collect a set of original research articles and reviews that cover all aspects of enzyme catalysis.

Scan the QR code for more information.

---

### Guest Editors

Dr. Yan Zhang

Department of Biological and Chemical Engineering, Faculty of Technical Sciences, Aarhus University, Gustav Wieds Vej 10, 8000 Aarhus, Denmark

Dr. Raushan Kumar Singh

Department of Biological and Chemical Engineering, Section of Industrial Biotechnology, Aarhus University, Aarhus, Denmark

---

### Deadline for manuscript submissions

closed (20 September 2022)



## Catalysts

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/85663](https://mdpi.com/si/85663)

*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).