

## Special Issue

# Biocatalysis for Industrial Applications

### Message from the Guest Editors

Biocatalysis has been established as a competitive alternative to traditional metallo- and organo-catalysis. The high selectivity of enzymes, along with their ability to catalyze reactions under mild conditions, have attracted the interest of industries. The advances in various fields, such as biotechnology, molecular biology and bioinformatics, provided the means to develop tailor-made biocatalysts that meet the industrial standards. Advances in metabolic engineering and genome editing facilitated the exploitation of a host's metabolism to produce desired products from simple carbon sources in one pot. Thus, there is a constant rise on the number of bioprocesses in industrial applications. This Special Issue aims to highlight the potential of biocatalysis in industry and to emphasize the trends, as well as the challenges to be faced. Submissions are welcome in the form of original research papers or short reviews which reflect the state of the art and provide a new insight.

### Guest Editors

Dr. Ioannis V. Pavlidis

Department of Chemistry - University of Crete, Voutes University Campus, 70013 Heraklion, Greece

Dr. Per-Olof Syrén

School of Engineering Sciences in Chemistry, Biotechnology and Health, Department of Fibre and polymer Technology, Science for Life Laboratory, KTH Royal Institute of Technology, Teknikringen 56-58, 100 44 Stockholm, Sweden

### Deadline for manuscript submissions

closed (31 January 2019)



## Catalysts

an Open Access Journal  
by MDPI

Impact Factor 4.0  
CiteScore 7.6



[mdpi.com/si/15300](https://mdpi.com/si/15300)

*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).