

Special Issue

Industrial Biocatalysis: Challenges and Opportunities

Message from the Guest Editor

During the last few decades, industrial biocatalysis has largely demonstrated its huge potential as a green alternative to traditional production methods by allowing the development of several biocatalyzed sustainable and selective manufacturing processes in the chemical, pharmaceutical, food, and cosmetics industry. The widespread application of biocatalysis has been also encouraged by the impressive advances in the availability of both native and tailor-made enzymes that can be obtained today by (meta)genomes mining and biocatalyst engineering. However, the development of novel biocatalytic applications and their integration in existing manufacturing processes still poses several challenges to be faced. In particular, significant efforts will be required (a) to speed up the “sequence-to-function” identification of biocatalysts with the desired activity as well as suitable operational stability; (b) to benchmark the developed processes to estimate the “real” sustainability improvement when compared to existing processes;

Guest Editor

Dr. Daniela Monti

Istituto di Chimica del Riconoscimento Molecolare, C.N.R.–Via Mario Bianco 9, 20131 Milano, Italy

Deadline for manuscript submissions

closed (31 May 2020)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.3



mdpi.com/si/32656

Catalysts
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

[mdpi.com/journal/
catalysts](https://mdpi.com/journal/catalysts)





Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 8.3



[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).