

Special Issue

Novel Enzyme and Whole-Cell Biocatalysts

Message from the Guest Editors

Global trends towards sustainability, the reduction of organic waste, and landfill avoidance are driving the demand for greener products with improved properties. Recent advances in synthetic biology, molecular biology, computational tools, and metabolic engineering have promoted the discovery of new enzymes and the rational design of whole-cell biocatalysts. Accordingly, with increased demand for sustainable and environmentally friendly biomanufacturing, the field of enzyme technology and biocatalysis (multi-enzymes and whole-cells) has become a primary focus for the synthesis of bio-based chemicals and high-value compounds. In this Special Issue, we would like to highlight these current advances in the field of biocatalysis, with special emphasis on novel enzymes and whole-cell biocatalysts for applications in industry, health, or cosmetics.

Guest Editors

Prof. Dr. Anwar Sunna

Department of Molecular Sciences, Macquarie University, Sydney, NSW 2109, Australia

Prof. Dr. Richard Daniellou

Institut de Chimie Organique et Analytique (ICOA), Université d'Orléans, UMR-CNRS 7311, BP 6759, Rue de Chartres, CEDEX 2, 45067 Orléans, France

Deadline for manuscript submissions

closed (31 January 2020)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 3.8
CiteScore 6.8



mdpi.com/si/24433

Catalysts

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 3.8
CiteScore 6.8



[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,
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 12.9 days after
submission; acceptance to publication is undertaken in 2.8
days (median values for papers published in this journal in
the first half of 2024).