

Special Issue

Application of Immobilized Enzyme as Catalysts in Chemical Synthesis

Message from the Guest Editors

This Special Issue will be focused on the report of any relevant chemical syntheses catalyzed by immobilized enzymes. In addition to that, special emphasis will be focused on (i) modulation of enzyme properties (activity, selectivity and stability) via immobilization and post-immobilization techniques; (ii) use of immobilized enzymes in non-conventional media (ionic liquids, organic solvents, etc.); (iii) use of immobilized enzymes in solvent-free systems; (iv) Sequential enzyme cascades: Co-immobilization and co-localization of two or more enzymes; (v) synthesis involving cofactor regeneration; (vi) design of immobilized enzyme reactors: Basket reactors, continuous flow reactors, etc.; (vii) chemo-enzymatic synthesis; (viii) asymmetric and enantioselective synthesis; (ix) re-use or continuous use of immobilized biocatalysts; (x) immobilization of enzymes that had been improved via biological techniques, etc.

Guest Editors

Prof. Dr. Jose M. Guisan

Department of Biocatalysis, Institute of Catalysis, Spanish Research Council, ICP-CSIC, Campus UAM, 28049 Madrid, Spain

Dr. Gloria Fernandez-Lorente

Institute of Food Science Research (CIAL-CSIC), C/Nicolás Cabrera, 9, Campus de Cantoblanco, 28049 Madrid, Spain

Deadline for manuscript submissions

closed (31 October 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/28292

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 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).