

## Special Issue

# Catalytic Reactions and Development of (Bio)Chemical Processes for Synthesizing Value Added Compounds

### Message from the Guest Editors

This Special Issue of ChemEngineering will aim the publications regarding the process development principles, both at industrial and laboratory scales. Manuscripts emphasizing highly active catalyst preparation and testing, process design, modelling, optimization and their economic efficiency assessment, with the end goal of producing value-added (bio)chemical products will be welcome.

In order to produce value-added chemical and biochemical products, an increasing number of processes, involving both homogeneous and heterogeneous catalytic materials, are proposed nowadays in different engineering fields. Manufacturing a catalyst with good activity and selectivity for a specific product plays a crucial role in increasing the economic efficiency of a process, whereas this step requires developing appropriate operating conditions for catalyst synthesis with a strong correlation between these aspects and the chemical structure of the catalyst. Given the global environmental requirements, a special emphasis should be conferred on the use of renewable raw materials as well as the minimization of waste in the proposed alternatives.

---

### Guest Editors

Dr. Ionut Banu

Department of Chemical and Biochemical Engineering, Polytechnic University of Bucharest, Bucharest, Romania

Prof. Dr. Costin Sorin Bildea

Department of Chemical and Biochemical Engineering, Faculty of Applied Chemistry and Materials Science, University Politehnica of Bucharest, Str. Gh. Polizu 1-7, 011061 Bucharest, Romania

---

### Deadline for manuscript submissions

30 November 2025



# ChemEngineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 4.9



[mdpi.com/si/169577](https://mdpi.com/si/169577)

*ChemEngineering*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[chemengineering@mdpi.com](mailto:chemengineering@mdpi.com)

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





# ChemEngineering

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 4.9



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



## About the Journal

### Message from the Editor-in-Chief

---

#### Editor-in-Chief

Prof. Dr. Mario J. Muñoz Batista

Department of Chemical Engineering, Faculty of Sciences, University of Granada, Avda. Fuentenueva, s/n, 18071 Granada, Spain

---

#### Author Benefits

##### High Visibility:

indexed within Scopus, ESCI (Web of Science), Inspec, CAPlus / SciFinder, and other databases.

##### Journal Rank:

JCR - Q2 (Engineering, Chemical) / CiteScore - Q1 (General Engineering )

##### Rapid Publication:

manuscripts are peer-reviewed and a first decision is provided to authors approximately 29.6 days after submission; acceptance to publication is undertaken in 5.7 days (median values for papers published in this journal in the first half of 2025).