# Special Issue

# Advances in Synthesis and Characterization of Zeolite Catalysts for Sustainable Applications

## Message from the Guest Editors

Zeolites have been utilized in industrial catalysis and separation processes for decades, initially in petroleum refinement and more recently in sustainable chemical applications. Their catalytic efficiency is attributed to three key properties; acidity, shape selectivity, and high surface area. Advances in post-synthesis modifications, such as dealumination, metal loading, and ion exchange, enable the tuning of acidity and porosity, thus optimizing the selectivity and stability of catalysts. This Special Issue aims to highlight recent advances in the synthesis, characterization, and application of zeolite catalysts, emphasizing their role in sustainable and environmentally friendly industrial processes. We therefore welcome the submission of articles that provide insights into zeolite design and novel applications in renewable energy, pollution mitigation, and chemical transformations.

#### **Guest Editors**

Prof. Dr. Bruno O. Dalla Costa

Dr. Griselda Alejandra Eimer

Dr. María Soledad Legnoverde

## Deadline for manuscript submissions

20 June 2026



# **Processes**

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



mdpi.com/si/221441

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

mdpi.com/journal/ processes





# **Processes**

an Open Access Journal by MDPI

Impact Factor 2.8 CiteScore 5.5



## **About the Journal**

## Message from the Editor-in-Chief

You are invited to contribute either a research article or a comprehensive review for consideration and publication in *Processes* (ISSN 2227-9717). *Processes* is published in open access format – research articles, reviews, and other content are released on the internet immediately after acceptance. The scientific community and the general public have unlimited, free access to the content. As an open access journal, *Processes* is supported by the authors and their institutes through the payment of article processing charges (APCs) for accepted papers. We would be pleased to welcome you as one of our authors.

#### Editor-in-Chief

Prof. Dr. Giancarlo Cravotto

Department of Drug Science and Technology, University of Turin, Via P. Giuria 9, 10125 Turin, Italy

#### **Author Benefits**

### Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

## **High Visibility:**

indexed within Scopus, SCIE (Web of Science), Ei Compendex, Inspec, AGRIS, and other databases.

### Journal Rank:

CiteScore - Q2 (Chemical Engineering (miscellaneous))

