# **Special Issue**

# Applied Catalysis in Chemical Industry: Synthesis, Catalyst Design, and Evaluation, 2nd Edition

## Message from the Guest Editor

This Special Issue aims to design and characterization of heterogeneous catalytic systems for industrial chemical processes. Contributions in the form of original research articles, short communications, perspective articles, and review articles reflecting the progress in the proposed topics are welcome. The main focus will be on comprehensive experimental studies of synthesis, characterization, and evaluation of catalyst performance in industrial processes. The proposed topics include, but are not limited to, the following:

- methane conversion:
- water-gas shift reaction;
- ammonia synthesis;
- ammonia decomposition;
- ammonia oxidation:
- carbon oxides methanation:
- selective catalytic reduction of nitrogen oxides;
- N2O decomposition;
- hydrogen production processes.

The scope also includes an investigation of catalysts under conditions close to the industrial ones, a comparison of the studied catalytic systems with the currently operating commercial systems, and a demonstration of the validity of their application in a given chemical process.

## **Guest Editor**

Dr. Magdalena Zybert

Department of Chemical Technology, Faculty of Chemistry, Warsaw University of Technology, Noakowskiego 3, 00-664 Warsaw, Poland

## Deadline for manuscript submissions

closed (15 July 2024)



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

mdpi.com/journal/catalysts





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Prof. Dr. Keith Hohn

Carl R. Ice College of Engineering, Kansas State University, Manhattan, KS, USA

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manuscripts are peer-reviewed and a first decision is provided to authors approximately 16.6 days after submission; acceptance to publication is undertaken in 2.7 days (median values for papers published in this journal in the first half of 2025).

