Special Issue

Functional Nanomaterials in Catalysis and Sensing

Message from the Guest Editors

This issue aims to showcase the latest advancements in the field of nanomaterials applied to catalysis and sensing applications. They have revolutionized the field of catalysis, offering unprecedented opportunities for enhancing reaction efficiency, selectivity, and stability. Their unique properties make them highly promising candidates for sensing applications across diverse domains, from environmental to biomedical diagnostics. We invite researchers in the field to contribute their work to this special issue. Topics of interest include but are not limited to: Synthesis and characterization of functional nanomaterials for catalytic applications; Design and optimization of catalysts for efficient energy conversion and chemical transformations: Design and characterization of nanoclusters/nanostructures for energy storage and conversion; Development of nanomaterial-based sensors for detecting gases. biomolecules, pollutants, and analytes; Integration of nanomaterials into sensing platforms for real-time monitoring and diagnostics Join us in advancing the understanding of nanomaterials in catalysis and sensing to enrich this dynamic and interdisciplinary field.

Guest Editors

Prof. Dr. Lifeng Dong

Dr. Zhanxi Fan

Prof. Dr. Haiping Xu

Deadline for manuscript submissions

closed (30 May 2025)



Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



mdpi.com/si/207611

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

mdpi.com/journal/catalysts





Catalysts

an Open Access Journal by MDPI

Impact Factor 4.0 CiteScore 7.6



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 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).

