

Special Issue

Current Advanced Technologies in Catalysts/Catalyzed Reactions

Message from the Guest Editors

The market for clean energy and industrial catalysts can be categorized into three major sectors: chemicals, fuels, and environmental protection. The same classification can be used in the sections that follow to discuss new opportunities in catalytic technology. New catalytic discoveries have the significant advance of bringing conceptual advances or molecular insights to catalytic processes wherever appropriate and, thereby, demonstrating the relationship between synthesis, structure, and performance of the catalytic systems. In this, the kinetics and mechanisms are considered to be the central part of catalysis science and their role in the understanding of developed technologies cannot be ignored. This Special Issue aims to cover the most recent progress and the advances in the field of heterogeneous, homogeneous, organocatalysis, catalyst discoveries; catalytic processes; catalyst mechanism; and biocatalysis communities, containing a balanced mix of fundamental, technology-oriented, liquid fuels; industrial emissions; clean environment; experimental, and computational catalysis. Prof. Dr. Suresh Sagadevan

Guest Editors

Prof. Dr. Sagadevan Suresh
Nanotechnology & Catalysis Research Centre, University of Malaya,
Kuala Lumpur 50603, Malaysia

Prof. Dr. Is Fatimah
Faculty of Mathematics and Natural Sciences, Universitas Islam
Indonesia, Yogyakarta, Indonesia

Deadline for manuscript submissions

closed (30 September 2022)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/84085

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 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).