Special Issue

New Insights into Synergistic Dual Catalysis

Message from the Guest Editors

Currently, an important issue in catalysis area is the development of catalysts with dual active sites, which work synergistically for performance enhancement. The syngersitic dual catalysis is a situation in which, when two catalytic active sites are combined in a catalyst, their catalytic performance exceeds that of a single active site counterpart. This synergistic effect can significantly improve the efficiency and selectivity of the catalyst, promoting the progress of chemical reactions. Catalysts with dual active sites can catalyze various chemical processes, such as photocatalytic reactions, electrical reactions as well as the traditional thermal-driven catalytic reactions. Desing of efficient catalysts with dual acitive sites is the key study. Unraveling the underlying mechanism of the dual catalysts in a specific reaction is of great significance for the rational design of better catalysts. This Special Issue will present the most recent and significant developments in synergistic dual catalysis. Original papers on the above topics and short reviews are welcome for submission.

Guest Editors

Prof. Dr. Huimin Liu

Prof. Dr. Dehua He

Dr. Yuxin Guo

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/207327

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

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).

MDPI