

Special Issue

Selective Catalysis for the Sustainable Energies

Message from the Guest Editors

This is a Special Issue focused on the advances in the development of materials and systems for the selective production of value-added chemicals by electrocatalysis. This call includes both experimental and computational strategies to improve the overall performance of the catalytic reactions (reaction rate, product selectivity, durability, energy efficiency) by optimizing the physico-chemical properties of reaction components (catalyst, electrolyte, membrane), operating conditions, and reactor design. We are particularly interested in displacing petrochemical-derived production of chemicals with electrocatalysis powered by clean energy. We highly encourage submissions on the development of catalysts and systems for green hydrogen and ammonia production, CO₂ and CO reduction, biomass conversion, and upgrading of hydrocarbons to high-value chemicals at industrial conditions.

Guest Editors

Dr. Jehad Abed

Dr. Hatem M. A. Amin

Prof. Dr. Mustapha Jouiad

Deadline for manuscript submissions

closed (31 July 2022)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/72125

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).