

Special Issue

Catalysts for Selective Catalytic Reduction (SCR) and Related Reactions

Message from the Guest Editors

This is a Special Issue on “Catalysts for Selective Catalytic Reduction (SCR) and Related Reactions”, including selective catalytic reduction of NO_x, passive NO_x adsorption (PNA), NO oxidation, and selective catalytic oxidation of ammonia (NH₃-SCO). This call includes both experimental results and computational calculations. We are interested in but not limited to the study of SCR activity and stability of catalysts via optimizing zeolites and mixed oxide-based catalysts. Particular focus is on the discovery of novel PNA and AdSCR catalysts to address issues related to NO_x emission from diesel engines during the cold-start period. From a theoretical point of view, we highly encourage submissions that involve quantum theory in atoms and molecules to illustrate the microstructure of active sites over catalysts for SCR and related reactions.

Guest Editors

Dr. Haidi Xu

Institute of New Energy and Low-Carbon Technology, Sichuan University, Chengdu 610064, China

Prof. Dr. Honggen Peng

School of Resources and Environment, Nanchang University, 999 Xuefu Road, Nanchang 330031, China

Deadline for manuscript submissions

closed (31 May 2023)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/150606

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 15.9 days after submission; acceptance to publication is undertaken in 3.5 days (median values for papers published in this journal in the second half of 2025).