

Special Issue

2020s Vision on Catalysts: Operando Characterization Methods

Message from the Guest Editors

Catalysis plays a major role in our society and we always strive to produce catalysts with improved performance. In order to do so, it is necessary to gain understanding of how catalysts operate in the real world. A range of characterization methods can be used in order to provide increased information on conversions, kinetics and mechanisms. This Special Issue collects original research papers, reviews and commentaries focused on recent studies and advances of operando characterization methods for heterogeneous gas phase catalysis. Submissions are welcome especially (but not exclusively) in the following areas: Infrared; X-ray absorption; Spatial resolution; NMR; Tomography; Kinetic Studies (experimental and modelling)

Guest Editors

Dr. Kevin Morgan

Dr. Ahmed Osman

Dr. Christopher McCallum

Deadline for manuscript submissions

closed (15 April 2021)



Catalysts

an Open Access Journal
by MDPI

Impact Factor 4.0
CiteScore 7.6



mdpi.com/si/44927

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).