

## Special Issue

# Catalytic Processes in Environmental Applications

### Message from the Guest Editors

Catalytic technology at the forefront of industrial exhaust treatment still faces limitations such as susceptibility to catalyst deactivation, high energy consumption, insufficient synergistic catalytic activity of multiple pollutants, etc. There is an urgent need for in-depth research to develop advanced catalytic methods that can effectively address these challenges. We warmly invite manuscripts covering (but not limited to) the following topics:

- Innovative strategies for anti-poisoning;
- Innovative strategies for multi-pollutant synergistic catalysis;
- Development on low-energy consumption catalysis;
- Problems and solutions in the practical application of industrial catalysts;
- Advanced characterization techniques for operando/in situ analysis of catalytic interfaces;
- Electro-driven/assisted catalytic strategies for efficient and low-temperature catalytic performance, etc.;
- Machine learning-assisted applications for design, optimization, and characteristics of catalysts.

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### Guest Editors

Dr. Yunfeng Ma

Dr. Peng Lu

Prof. Dr. Xiaole Weng

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### Deadline for manuscript submissions

30 September 2026



## Catalysts

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### Message from the Editor-in-Chief

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#### Editor-in-Chief

Prof. Dr. Keith Hohn  
Carl R. Ice College of Engineering, Kansas State University, Manhattan,  
KS, USA

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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).