## **Special Issue**

# Advances in Catalytic Reaction for Wastewater Treatment

## Message from the Guest Editors

This Special Issue aims to encompass advanced catalytic approaches for heavy metal removal via adsorption-coupled redox processes, electrochemical oxidation/reduction systems for persistent contaminant degradation, and environmentally benign catalysts designed for selective pollutant targeting. Particular emphasis will be placed on photocatalysis utilizing tailored nanomaterials for the solar-driven degradation of emerging organic pollutants, as well as hybrid systems combining membrane separation with catalytic functionalities. We encourage the submission of studies on bioelectrochemical technologies that leverage microbial-catalytic interfaces for energy-efficient treatment, alongside investigations into catalyst stability, regeneration protocols, and lifecycle assessments. Submissions addressing mechanistic insights into interfacial reaction dynamics, catalyst design principles (e.g., defect engineering, surface functionalization), and field-scale implementation challenges are particularly welcome.

### **Guest Editors**

Dr. Mena Li

Dr. Xu Jin

Dr. Jin Tang

## Deadline for manuscript submissions

31 December 2025



# **Catalysts**

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## **About the Journal**

## Message from the Editor-in-Chief

## **Editor-in-Chief**

Prof. Dr. Keith Hohn

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## **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).

