# Special Issue

# Design and Synthesis of Metal Nanocatalysts for Energy and Environmental Applications

## Message from the Guest Editors

In the past few decades, significant research efforts have been devoted in the techniques for the design and synthesis of new heterogeneous catalysts for bringing about a reduction in greenhouse gases, the production of H2 and syngas technologies, and a reduction in the NOx and soot production for clean combustion engines. This Special Issue invites original papers on the latest research activities on the “design and synthesis of metal nanocatalysts for energy and environmental applications.” We also invite review articles that include a survey of the state-of-the-art design and applications of metal nanocatalysts for emerging applications. This Special Issue will focus on, but is not limited to:

- Heterogeneous catalysis;
- Hydrogen generation and storage;
- CO2 reduction;
- Solar fuels;
- Photocatalysis/plasmonic catalysis;
- Renewable energy;
- Pollutant degradation.

## Guest Editors

Dr. Priyanka Verma

Dr. Ryo Watanabe

Prof. Dr. Choji Fukuhara

## Deadline for manuscript submissions

closed (31 August 2023)

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*Catalysts*
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
catalysts@mdpi.com

mdpi.com/journal/catalysts

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## 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

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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).