

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 NO_x 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

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Deadline for manuscript submissions

closed (31 August 2023)



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Message from the Editor-in-Chief

Editor-in-Chief

Prof. Dr. Keith Hohn
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JCR - Q2 (Chemistry, Physical) / CiteScore - Q1 (General Environmental Science)

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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).