

## Special Issue

# Catalysis in CO<sub>2</sub> Conversion and Reduction

### Message from the Guest Editors

This Special Issue aims to showcase cutting-edge research and innovative approaches in catalysis for CO<sub>2</sub> conversion and reduction, advancing sustainable technologies that transform CO<sub>2</sub> into valuable chemicals and fuels while addressing environmental and energy-related challenges. In this Special Issue, original research articles and reviews are welcome. Research areas may include (but not limited to) the following:

- Design, synthesis, and characterization of novel catalysts for efficient CO<sub>2</sub> reduction;
- Development of electrocatalytic systems for converting CO<sub>2</sub> into valuable chemicals and fuels;
- Exploration of photocatalysts and solar energy systems for sustainable CO<sub>2</sub> reduction processes;
- Thermal-driven catalytic methods for transforming CO<sub>2</sub> into hydrocarbons and alcohols via hydrogenation;
- Integration of CO<sub>2</sub> capture technologies with catalytic systems for conversion into valuable products.
- Use of computational tools to model reaction mechanisms, predict catalyst behavior, and guide the development of more efficient catalysts.

We look forward to receiving your contributions.

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### Guest Editors

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### Deadline for manuscript submissions

31 May 2025



## Inorganics

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## About the Journal

### Message from the Editor-in-Chief

Inorganic chemistry remains a lynchpin of modern chemistry, not only embracing the function and reactivity of combinations of most elements of the periodic table, but also providing a footing for studies of materials, catalysts, drugs, fuels and industrial chemicals. Arguably, the role and reach of inorganics in society have never been as great as today. Adventurous research at the heart and at the extremes of inorganic chemistry is vital to further advances and Inorganics offers authors the opportunity to publish exciting new research in an open access format.

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### Editor-in-Chief

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