

## Special Issue

# Recent Advances in Research of Electrocatalysts

### Message from the Guest Editor

Electrocatalysis, as one of the key technologies for energy conversion and value-added chemical synthesis, enables new possibilities for sustainable and environmentally compatible energy infrastructures. Many common electrocatalysis processes, such as the oxygen evolution reaction (OER), hydrogen evolution reaction (HER), oxygen reduction reaction (ORR), CO<sub>2</sub> reduction reaction (CO<sub>2</sub>RR), and N<sub>2</sub> reduction reaction (NRR), have been actively investigated in the past decades. The design and synthesis of high-performance electrocatalysts for these reactions remain critical and urgent challenges. This Special Issue aims to highlight recent developments in novel electrocatalysts, mechanistic insights, energy conversion and storage, environmental remediation, electrosynthesis, and other related areas. Researchers and scholars from academia, research institutions, and industry are encouraged to submit their original research articles, reviews, and perspectives to this Special Issue.

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### Guest Editor

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### Deadline for manuscript submissions

20 November 2025



## Crystals

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## About the Journal

### Message from the Editor-in-Chief

Welcome to *Crystals*, the journal dedicated to the fascinating world of crystallographic research! Crystals are more than mere decorative elements; they hold the key to understanding the fundamental structure of matter. Our mission is to explore the crucial significance of this research across various fields. From medicine to technology, chemistry to geology, crystals play a vital role. Their structure provides insights into new advanced materials, innovative drugs, and groundbreaking technologies. Through *Crystals*, we delve into the microscopic world to discover solutions that will shape the future. Join us on a journey through the *Crystals*, where science merges with beauty and innovation.

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### Editor-in-Chief

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