

## Special Issue

# Synthesis, Structure, and Characterization of Metal-Organic Complexes

### Message from the Guest Editors

Due to unique coordination and electronic geometry and physicochemical properties, metal-organic complexes have been widely developed in potential applications, including catalysis, photophysics, and energy storage. Over recent decades, significant progress and breakthroughs have been achieved to further expand the metal-organic complex family. This Special Issue of *Crystals* aims to report on the synthesis, novel structures, and practical applications of metal-organic complexes, covering a range of topics, from experimental results to theoretical discoveries. Potential topics include but are not limited to:

- Synthesis or methodology development and crystallography of new metal-organic complexes;
- Catalytic reactions, including homogeneous and heterogeneous applications;
- Light-harvesting, photophysical, and photochemical applications;
- Energy storage, conversion materials;
- Theoretical discoveries on the electronic structures, bonding behaviors, and mechanism studies.

There is no restriction on the length and type of papers, and contributions of original research articles, reviews, perspectives, and letters are welcome.

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### Guest Editors

Dr. Zhou Lu

Dr. Yizhen Chen

Dr. Elizabeth Hillard

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### Deadline for manuscript submissions

closed (15 October 2023)



## 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

Prof. Dr. Alessandra Toncelli

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