

Special Issue

Coordination Complexes: From Molecular Design to Functional Applications

Message from the Guest Editor

This Special Issue focuses on the design, synthesis, and comprehensive characterization of coordination complexes, highlighting their transformation into functional materials with a wide array of applications. Special attention is given to elucidating the structure–property relationships that dictate the performance of these complexes in diverse fields such as catalysis, chemical sensing, magnetism, photophysics, optoelectronics, energy conversion and storage, and biomedical technologies. Contributions that explore innovative ligand frameworks, novel coordination geometries, and advanced metal–ligand interactions that enable the fine-tuning of physicochemical properties are welcome. Studies leveraging state-of-the-art synthetic approaches, spectroscopic and structural techniques, and computational modeling to gain deeper insights into complex behavior are particularly encouraged. In bridging the gap between fundamental coordination chemistry and practical implementation, this Special Issue aims to showcase the pivotal role of coordination compounds in addressing current scientific and technological challenges.

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Message from the Editor-in-Chief

The International Journal of Molecular Sciences (*IJMS*, ISSN 1422-0067) is an open access journal, which was established in 2000. The journal aims to provide a forum for scholarly research on a range of topics, including biochemistry, molecular and cell biology, molecular biophysics, molecular medicine, and all aspects of molecular research in chemistry. *IJMS* publishes both original research and review articles, and regularly publishes special issues to highlight advances at the cutting edge of research. We invite you to read recent articles published in *IJMS* and consider publishing your next paper with us.

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