# Special Issue

# Metal Complexes: Synthesis, Structure, and Biological Activity

## Message from the Guest Editors

Research on complex coordination compounds is a fundamental area of modern inorganic and bioinorganic chemistry. Contemporary studies focus on the rational design and synthesis of complexes with N-, O-, and S-donor ligands to define the metal center's properties. Newly synthesized complexes are characterized using advanced spectroscopic techniques and single-crystal X-ray diffraction, enabling structure–property correlations. Thermodynamic and kinetic studies provide insight into stability and reactivity under biologically relevant conditions. Within bioinorganic chemistry, investigations focus on interactions between complexes and biomolecules such as DNA and proteins. These studies elucidate binding modes and transport processes. Biological evaluation includes cytotoxicity, antitumor, and antimicrobial assays to assess therapeutic potential and establish structure–activity relationships. This Special Issue, entitled "Metal Complexes: Synthesis, Structure, and Biological Activity," aims to bring together recent advances in synthesis, characterization, and functional evaluation of coordination compounds, providing an overview of current trends and future directions.

## Guest Editors

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## 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.

## Editor-in-Chief

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