Special Issue

Metallamacrocycles and Metallacages: Foundations and Applications

Message from the Guest Editors

Metallamacrocycles and metallacages are molecular objects of inherent beauty. Since their inception, reliable synthetic protocols that draw on the reversible formation of coordinative bonds have been developed and have granted access to structures of ever-increasing variety, complexity and dimensionality. Over the years this field has matured, and now allows for the purposeful design of metallamacrocycles and metallacages that are poised to fulfil certain tasks. Thus, they may serve as hosts for specific guests, allowing their selective uptake or detection, or as containers that can be used to transport their cargo to the desired place of action. Guest uptake or release events may be triggered by redox stimuli, while their intrinsic redox properties can be exploited for redox catalysis. This Special Issue seeks to combine all aspects of the chemistry of metallamacrocycles and metallacages, from the fundamentals of their synthesis and characterization, their structural, spectroscopic and electrochemical properties to their varied applications, by providing a platform for original research articles as well as short topic reviews.

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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.

Editor-in-Chief

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