Special Issue

Synthesis and Applications of Metallofullerenes

Message from the Guest Editor

Metallofullerenes—endohedral fullerenes encapsulating metal atoms, clusters, or ions—represent a rapidly evolving frontier in carbon nanomaterials. By confining metal species within a robust carbon cage, these hybrid structures combine exceptional stability with tunable electronic, magnetic, and optical properties. The vast diversity of cage sizes, metal components, and charge transfer interactions offers an extraordinary platform for designing molecular systems with precisely tailored functionalities.

This Special Issue aims to showcase original research articles and comprehensive reviews covering all aspects of metallofullerenes, including synthesis, separation, structural and spectroscopic characterization, theoretical modeling, and emerging applications. Contributions from both experimental and computational perspectives are welcomed.

Guest Editor

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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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