

Special Issue

Synthesis, Properties and Applications of Lanthanide and Actinide Molecular Compounds

Message from the Guest Editors

Lanthanides and actinides have unique physical and chemical properties that result in a wide variety of applications, from energy production to life sciences. Owing to the unique electronic, optical and magnetic properties of lanthanide ions, the potential utility of molecular lanthanide compounds in biosensing and bioimaging continues to increase. The search for new bonding motifs in molecular actinide compounds is an ongoing challenge and is of importance in the development of separation strategies for used nuclear fuel and radioactive waste processing. This Special Issue aims to collect contributions focused on recent research on synthesis, reactivity, properties and applications, such as catalysis, materials and medicine, of lanthanide and actinide molecular compounds. We expect that it will contribute to the development of f-element chemistry, and we invite you to participate with your more recent work.

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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

Prof. Dr. Duncan H. Gregory

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