Special Issue

Magnetic Lanthanide Complexes

Message from the Guest Editors

Coordination lanthanide compounds are the focus of intense research due to their peculiar magnetic properties, which arise as a consequence of their large magnetic moment and large anisotropy. Recent research brought these systems at the forefront of the research interest, thanks to the discovery of magnetic bistability on mononuclear complexes, which might pave the way for the use of these systems as magnetic memory molecular units. However, several crucial points are still open, such as, the fine understanding of the degree of covalence in the lanthanide coordination bond and the role of the electrostatic environment in determining the magnetic properties, as well as the role of vibrations in determining the magnetization dynamics and the experimental identification of the correct relaxation process. This Special Issue aims at collecting experimental and theoretical research and review contributions of recent advances in all aspects of magnetic properties of lanthanide complexes and to share this knowledge with a broader audience by means of an open access publication policy.

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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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