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Slow Magnetic Relaxation in Metal Complexes

Guest Editor:

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Deadline for manuscript submissions:
closed (30 April 2022)

Message from the Guest Editor

Dear Colleagues,

Within the period of the last two decades, the discovery of slow magnetic relaxation in metal complexes of paramagnetic systems has practically initiated an explosion of interest. Under slow magnetic relaxation, it is understood that the conservation of sample magnetization can last for some time, also after the magnetic field is removed. This postulates possibilities for the design of magnetic memory and imaging devices on the nanoworld level, i.e., on the level of one molecule. That would mean an epochal jump in the integration of electronic and spintronic components with enhancement of the order of 10^{15} with respect to classical magnetic materials. At present, the issue of nanomagnets is very actively discussed on prominent scientific forums devoted to this multidisciplinary field in which knowledge from chemical synthesis and analysis, molecular and solid state physics, quantum mechanics, magnetochemistry/magnetophysics, material engineering, nanoelectronics, and spintronics is integrated. This Special Issue is dedicated to a particularly attractive field of nanomagnetism of magnetoactive molecules based on 3d&4f metals.

Ján Titiš

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Message from the Editor-in-Chief

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.

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