Special Issue

Paramagnetic MRI Contrast Agents Based on the Use of Lanthanides and Transition Metals Complexes: From Small Molecules to Supramolecular Systems

Message from the Guest Editors

Magnetic resonance imaging plays a key role in the field of in vivo diagnostic imaging because of its high spatial resolution, the possibility to visualize deep tissues, and the absence of invasiveness. The use of metal-based contrast agents, mainly gadolinium-based contrast agents (GBCAs), allows enhancing the clinical information attainable by MRI scans; thus, macrocyclic and linear GBCAs are widely employed in clinical MRI scans. The main aim of this Special Issue is to investigate the magnetic properties of metal-based MRI contrast agents, by highlighting the relationship between their chemical structure and the biological behavior. Keywords

- CEST
- FFC–NMRD, Gd complexes
- Lanthanides
- liposomes
- magnetic resonance imaging
- molecular imaging
- nanosized systems
- T1 agents

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About the Journal

Message from the Editor-in-Chief

Magnetochemistry constitutes a multidisciplinary field where chemists and physicists not only study magnetic properties but also design and synthesize chemical compounds with desired magnetic properties. *Magnetochemistry* is inviting contributions in any field related with this area, such as theoretical models, crystal engineering, molecular magnetism, SMM, SIM, SCM, SCO, magnetic nanostructures, magnetic MOFs, magnetic recording, qubits, magneto-caloric materials, etc. Our goal is to share your contribution in a timely fashion and in a manner that will be valued by the scientific community.

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