Special Issue

Principles of Magnetic Resonance Relaxation in Molecular Systems

Message from the Guest Editor

The proposed topic should motivate the very active communities of NMR relaxation and EPR spectroscopy, between which there are interesting synergies, for example in the very studied field of paramagnetic species interacting with their molecular environment with applications to MRI contrast agents or nuclear dynamic polarization. The considered systems encompass, but are not limited to, charged or uncharged molecules or nanoparticles in bulk liquid, in porous materials, or solids, polymers, biological tissues, foodstuffs. The experimental and theoretical developments include NMR and EPR instrumentation and methods, molecular modelling, analytical theory and numerical simulation. Interdisciplinary contributions based on such systems and tools are welcome.

Guest Editor

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As the premier open access journal dedicated to molecular chemistry, now in its 29th year of publication, the papers published in *Molecules* span from classical synthetic methodology to natural product isolation and characterization, as well as physicochemical studies and the applications of these molecules as pharmaceuticals, catalysts, and novel materials. Pushing the boundaries of the discipline, we invite papers on all major fields of molecular chemistry and multidisciplinary topics bridging chemistry with biology, physics, and materials science, as well as timely reviews and topical issues on cutting-edge fields in all of these areas.

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