



Applications of Nuclear Magnetic Resonance Imaging

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Deadline for manuscript
submissions:

closed (31 March 2022)

Message from the Guest Editors

Dear Colleagues,

Nuclear magnetic resonance imaging (NMRI) has developed into an indispensable technology for medical diagnosis and other fields since it was introduced in the 1970s. This is due to advances in MRI hardware (e.g., magnet, coils, computer) and software (e.g., pulse sequence, data processing) along with MRI's unique advantage.

MR spectroscopy has also been benefiting from the advances in MRI hardware for the more accurate and rapid non-invasive extraction of biochemical information. By combining MRS with the spatial encoding technique in MRI, MR spectroscopic imaging provides a unique means of non-invasively mapping multiple metabolites simultaneously over the entire section or volume of a living organ. Deep learning has been applied in MRI, including but not limited to undersampled MRI reconstruction, contrast synthesis, segmentation, diagnosis, and automated scan preparation.

This Special Issue focus on the latest developments and applications of nuclear magnetic resonance imaging. We invite researchers to contribute research or review articles to this Special Issue.





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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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