Special Issue

Applications of Nuclear Magnetic Resonance Imaging

Message from the Guest Editors

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.

Guest Editors

Prof. Dr. Sangdoo Ahn

Department of Chemistry, Chung-Ang University, Seoul 156-756, Republic of Korea

Prof. Dr. Hyeonjin Kim

Department of Medical Sciences, Seoul National University, Seoul 03080, Korea

Deadline for manuscript submissions

closed (31 March 2022)

Magnetochemistry

an Open Access Journal by MDPI

Impact Factor 2.5
CiteScore 4.6

mdpi.com/si/99073

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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Editor-in-Chief

Prof. Dr. Carlos J. Gómez García
Department of Inorganic Chemistry, Faculty of Chemistry, University of Valencia, C/Dr. Moliner 50, 46100 Burjasot, Spain

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