## **Special Issue**

# Nuclear Magnetic Resonance (NMR) in Polymers

## Message from the Guest Editors

Nowadays, nuclear magnetic resonance (NMR) spectroscopy is widely recognized as a powerful technique for the comprehensive characterization of chemical structures, and has been essential in advancing polymer research. Depending on the polymer, solution NMR spectroscopy has been applied in a diverse range of studies, including the determination of structure and analysis of the tacticity and stereochemistry of homopolymers, cis-trans isomerism in polydienes, and dynamic and diffusion studies for understanding complex aggregation and dissociation process. Furthermore, NMR analysis is unique in being able to determine the composition and sequence distribution of comonomers in copolymers for the analysis of chain defects, chain end groups, and branching polymers. Currently, multidimensional NMR spectroscopy is widely and routinely used in spectral assignments and structural studies for the analysis and characterization of polymers. Potential topics include but are not limited to: NMR characterization of synthetic polymers

NMR characterization of natural polymers Non-covalent interactions Aggregation/disaggregation studies Intra- and intermolecular H-bonding

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## Deadline for manuscript submissions

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## Message from the Editor-in-Chief

Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. Materials provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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