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Nuclear Magnetic Resonance (NMR) in Polymers

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Deadline for manuscript submissions:

closed (31 October 2020)

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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Message from the Editor-in-Chief

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