Special Issue

NMR in Polymer Science

Message from the Guest Editor

Since their early days, Nuclear Magnetic Resonance (NMR) and Polymer Science have had a strong and enduring liaison. Many times, the discovery of a new class of polymers required the development of new NMR techniques or the set-up of new interpretative paradigms, as in the case of the precise determination of the polymer tacticity. On the other hand, the possibility of using both Cross Polarization (CP) and Magic Angle Spinning (MAS) for recording 13C NMR spectra was demonstrated for the first time on polymer samples. Nowadays, NMR is widely used in all different areas of polymer science, from chemical analysis in solution and in the solid state, including but not limited to composition, tacticity, branching and end group determination, to morphology of semicrystalline polymers, blends, micro- and nanoparticles. NMR is also extremely sensitive to molecular mobility thus polymer dynamics and chain conformation in solution or in bulk can be accurately described. Additionally, relevant processes, closer to the final application of the polymer materials, like diffusion of a penetrant or self-diffusion, can be monitored.

Guest Editor

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Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
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