

Special Issue

Magnetic Field in Polymer Research

Message from the Guest Editors

Most polymers, including commercial synthetic polymers, and biopolymers are non-magnetic materials and considered to be indifferent to magnetic fields.

However, they are in fact magnetized and can respond to an applied magnetic field. This magnetic response of polymers can be utilized for polymer processing. For example, polymeric particles (e.g., PS and PP) can be separated by using the difference in their magnetic susceptibilities; polymeric fibers that are nano- to micrometers in size can be aligned owing to their magnetic anisotropy; and magnetic fields can encourage the formation of microstructures of block copolymers. All of these phenomena have high potential in many polymer processing applications. This Special Issue is aimed at documenting recent advances in the use of magnetic fields for polymer processing and fabrication of functional polymeric systems. Both original papers and communications are welcome, including but not limited to those on the use of magnetic force and torque for the processing of polymeric systems.

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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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