Special Issue

Phase Transitions in Polymers and Polymer Morphologies

Message from the Guest Editor

The variety of morphologies observed in polymers reflects the complexity of phase transitions in these systems, where the ordering of structural units is constrained by their connectivity in long chains. For decades, the thermodynamic and kinetic peculiarities of crystallization, self-assembling, and phase separation have attracted researchers seeking to understand why and how these processes take place in polymer solutions, melts, and blends. In this Special Issue, we most welcome papers that try to reveal new polymer phases and microstructures and to search for the conditions for their formation and stability, thus enriching tools and strategies for the design of polymer materials. Of particular interest are the following topics:
- Selective modification of macromolecules to enhance their ordering ability;
- Self-assembling in multiblock, gradient, and statistical copolymers;
- Interplay between microphase separation and liquid-crystalline ordering;
- Effect of nanoparticles on phase transitions in polymer matrices;
- Polymer self-assembly in thermal, electric, magnetic, and other external fields.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2021)

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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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