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Phase Transitions in Polymers and Polymer Morphologies

Guest Editor:

Message from the Guest Editor

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Dear Colleagues,

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 liquidcrystalline ordering;

- Effect of nanoparticles on phase transitions in polymer matrices;

- Polymer self-assembly in thermal, electric, magnetic, and other external fields.

Prof. Yaroslav Kudryavtsev Guest Editor







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Message from the Editor-in-Chief

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