Special Issue

Block Copolymers: Synthesis, Self-Assembly and Application

Message from the Guest Editor

Block copolymers are one of the most attractive classes of polymer in polymer chemistry and polymer physics, and have shown unique properties in both bulk and solution self-assembly due to the microphase separation of different blocks. Despite the rapid development of this field in the last three decades, the emerging technologies of the synthetic methodology, self-assembly strategies and application exploration bring new avenues for the synthesis, self-assembly and application of block copolymers. In this Special Issue, we aim to give readers an overview of the state-of-the-art research and recent development of block copolymers. This Special Issue will cover the new technologies used to prepare block copolymers with precisely controlled multi-segments, block composition, molecular weight and polydispersity; the preparation of functional materials by bulk and solution self-assembly (e.g., membranes, micelles, vesicles) as well as the controlled manipulation of their microstructures; and the potential applications of block copolymers, including water remediation, energy storage and catalysis, anticancer therapy, antimicrobial therapy, immune therapy, etc.

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

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