Special Issue

Synthesis, Self-Assembly, and Applications of Block Copolymers

Message from the Guest Editor

Nanomanufacturing with high efficiency and low cost is a key technology for next-generation electronic/photonic/energy devices. Block copolymers (BCPs) have been extensively studied for decades due to their ability to generate ordered nanoscale patterns induced by microphase separation. Recent progress in block copolymer synthesis, templating, and processing has enabled sub-7nm patterns with a high degree of controllability bringing BCPs closer to practical applications in nanolithography. Moreover, the delicate design of block copolymer molecules/morphology, and the development of various block copolymer-based nanocomposites are expanding their application fields to organic photovoltaics/semiconductor, display, catalysis, filtration, sensor, energy device, and biomedical applications. This Special Issue will cover a wide range of recent developments in block copolymer research, including, but not limited to, the design of block copolymer molecules, modeling, directed self-assembly, block copolymer particles, multiblock copolymers, and their potential applications.

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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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