Special Issue

Characterization and Application of Self-Assembled Block Copolymers

Message from the Guest Editor

The self-assembly of amphiphilic block copolymers has attracted attention due to their ability to form various nanostructures, including spherical micelles, bowlshaped micelles, cylindrical micelles, bilayer membranes, helices, nanotubes, hollow-hoop, and more complex structures in aqueous solution. The balance between hydrophilic and hydrophobic interactions drives the molecular chains to assemble into nanostructures with dense hydrophobic domains and loose hydrophilic domains in aqueous systems. The hydrophobic-hydrophilic balance is driven by many interactions between/within molecules, and the crystallization of molecular chains. Many block copolymers have been synthesized to create specific nanostructures for many applications. We invite authors to submit original research articles as well as review articles that will stimulate the continuing efforts in developing self-assemblies of block copolymers, including the new architecture of block copolymer molecules, the control of the thermodynamic equilibrium, and the dynamic process of selfassembling, new characterization strategies, and the application of the block copolymer self-assemblies.

Guest Editor

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Deadline for manuscript submissions

closed (29 February 2024)



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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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