

## Special Issue

# Self-Assembly of Block Copolymers: Preparation of Nanostructured Materials for Industrial and Biomedical Applications

### Message from the Guest Editor

Over the past few decades, the advancement of controlled/living polymerization techniques has facilitated the synthesis of well-defined block copolymers with precisely controlled composition, topology, and functionality. Importantly, the preparation of copolymers comprising discrete blocks that differ significantly in their solvophilicity leads to microphase separation between the incompatible domains either in bulk or in solution in the system's effort to minimize unfavorable polymer–polymer and polymer–solvent interactions. This behavior, also known as block copolymer self-assembly, in turn, results in the formation of nanostructured materials with unique properties.

The aim of this Special Issue is to highlight recent advances in the field of block copolymer self-assembly for the development of nanomaterials of industrial or biomedical interest. Special emphasis will be given to novel self-assembly methodologies, such as CDSA and PISA, for the formation of well-defined polymeric nano-objects of controllable morphology, as well as the preparation of stimuli-responsive and biocompatible nanostructures.

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### Guest Editor

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### Deadline for manuscript submissions

closed (30 June 2021)



## Polymers

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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 4.9.

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.

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### Editor-in-Chief

Prof. Dr. Alexander Böker

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