Special Issue

Block Copolymers Particles: From Synthesis to Application

Message from the Guest Editor

Polymer particles with controlled shape and internal structure are receiving increasing interests as promising materials for biological and pharmaceutical applications, photonics, and catalysis. To date, numerous insights on the self-assembly of multiple components (i.e., block copolymers, nanoparticles, and biomolecules) within emulsions have led to the rapid growth of emulsion assisted fabrication strategies for the creation of soft matter-based colloidal particles with well-defined size, shape, and internal morphologies. In this approach, the soft and mobile interface of emulsion allows spontaneous deformation of the particle shape, affording a one-step generation of non-spherical solid particles. Shape deformation occurs in order to minimize the thermodynamic balance of the overall free energy of the system, therefore this strategy allows a rich variety of shape-anisotropic polymer particles with systematic and programmable controllability. The aim of this Special Issue is to highlight the recent progress on shape and nanostructure control of polymer particles as well as various applications based on polymer particles.

Guest Editor

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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 4.7.

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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