

Special Issue

Synthesis, Characterization and Applications of Functional Polymeric Materials

Message from the Guest Editors

Bottlebrush polymers are a kind of macromolecule with a linear backbone and densely grafted sidechains. Besides their chemical compositions, the physical structures can be tuned to present different properties. For instance, the variables of backbone length, side-chain length, grafting density, etc. introduce special properties for bottlebrush polymers. Due to their highly branched structures, they exhibit special properties and can be applied as super soft elastomers, photonic crystals, antifouling materials, drug delivery, surface treatment, etc. This Special Issue focuses on the synthesis, characterization, and application of bottlebrush polymers. Topics include but not limited to advanced studies improving the synthetical accessibility of bottlebrush polymers and characterizing and identifying the special structure and properties of bottlebrush polymers and the unique applications of highly branched polymers.

Guest Editors

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Deadline for manuscript submissions

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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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