

Special Issue

Cyclodextrin-Based Polymers: From Synthesis to Applications

Message from the Guest Editors

Cyclodextrins (CDs) are cyclic oligosaccharides with unique conical structures that enable the design and synthesis of CD-based polymers with desired structures and functions. Two types of CD-based polymers, including (1) polymers containing CD units as parts of the backbone and (2) polymers with CD units as side chains, have been developed intensively. A wide range of CD derivatives serving as starting materials and polymer-network-forming reactions offer an enormous variety in the physicochemical properties of these materials, predominantly referred to as inclusion complex formation. In this Special Issue, we call for papers concerning the design, synthesis, characterization, and insights into the structure–property relationships of CDs-based polymers, as well as CDs-based polymers for the design of polymeric materials such as supramolecular hydrogels and nanoparticles. We also welcome papers discussing the potential applications, such as the pharmaceutical industry, food industry, tissue engineering, delivery systems for macromolecules, wound dressing, cosmetics, agricultural materials, water purification, drug delivery, gene therapy, and the treatment of infections.

Guest Editors

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Deadline for manuscript submissions

closed (5 January 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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