# Special Issue

# Advanced Dendritic and Hyperbranched Polymers

### Message from the Guest Editors

Antibacterial resistance has become a global threat; of particular importance are multidrug-resistant (MDR) bacteria, with a broad spectrum of virulence factors. Multidrug resistance is overrepresented in Gram-negative bacteria, where the outer and inner membranes are effective barriers against most antibacterial agents. Most solutions are currently focused on finding the best permeabilizer of the bacterial membrane as the main mechanism of action to kill bacteria. Recent studies have shown the great potential of dendritic polymers, which may represent a new class of bacterial membrane permeabilizers. In this regard, the mechanisms of permeabilization of the outer bacterial membrane due to dendritic and hyperbranched polymers have now become of significant interest. We believe that knowledge of how dendritic polymers disrupt the bacterial membrane to carry out antibacterial activities is crucial in order to further develop potent and effective antibacterial agents. For this Special Issue, we invite submissions in the form of manuscripts focusing on dendritic and hyperbranched polymers that could be applied in biomedicine as new bacterial membrane permeabilizer agents.

### Guest Editors

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### Deadline for manuscript submissions

closed (31 October 2021)

**Polymers**

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**CiteScore 9.7**
**Indexed in PubMed**

mdpi.com/si/72898

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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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