Special Issue

Renewable Polysaccharides: Structure and Applications

Message from the Guest Editors

Since the turn of the century, renewable polysaccharides derived from various organisms have attracted a lot of attention in the scientific community. Besides their renewability and biodegradability, polysaccharides' diverse functional groups and unique physicochemical properties indicate that they could be an environmentally friendly alternative to synthetic polymers. Moreover, they possess a variety of bioactivities (including anti-inflammatory, anti-viral, antioxidant, immunomodulatory, antitumor, etc.) that render them potential candidates for a range of different biotechnology applications. Indeed, many of these natural polysaccharides are already being used in the biomedical and food industries, catalysis, and the energy sector, among others. To date, however, the complex structural forms and biodiversity of polysaccharides have precluded them from being rigorously explored to enable the full realization of their potential. The aim of this Special Issue is to present the latest advances in the development of renewable polysaccharide applications and to obtain insight into the fundamental relationship between their structures and their properties.

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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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