

Special Issue

Carbohydrate Polymers: Synthesis, Preparation, Structural Characteristics and Applications

Message from the Guest Editors

Carbohydrate polymers are some of the most abundant and important biological macromolecules in nature. Carbohydrate-related polymers can be roughly divided into three categories: (a) polysaccharides found in nature, usually homopolymers or heteropolymers (including cellulose, dextrin, and agarose); (b) naturally derived synthetic polysaccharides, which are polymers containing the main chain of carbohydrates, made by ring-opening polymerization or other methods with monomers made from natural sugars; and (c) sugar polymers (including glycopeptides) are synthetic polymers with monosaccharides or oligosaccharides as side groups. The application of carbohydrate polymers, especially sugar polymers, has attracted significant attention. This Special Issue mainly covers the preparation, structural modification, biological and chemical synthesis, structural characteristics, biological activity, and potential application of carbohydrate polymers in areas such as bioenergy, bioplastics, biomaterials, nanotechnology, biorefining, drug delivery, food, chemistry, packaging, paper, pharmaceuticals, medicine, oil recovery, textiles, and wood.

Guest Editors

Dr. Aoxue Luo

National Forestry and Grassland Southwest Engineering Technology Research Centre of Taxus, Sichuan Agricultural University, Dujiangyan, China

Dr. Yijun Fan

Department of Landscape Plants, Sichuan Agriculture University, Chengdu 611130, China

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MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
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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

Lehrstuhl für Polymermaterialien und Polymertechnologie, University of
Potsdam, 14476 Potsdam-Golm, Germany

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