

Special Issue

Properties and Applications of Polysaccharides

Message from the Guest Editor

Polysaccharides are a large family of polymers that are composed of long chains of monosaccharide units (simple sugars) linked together through glycosidic bonds. Because of the diversity of monosaccharides, polysaccharides are also diverse. Cellulose, starch, chitin/chitosan, glycogen, hyaluronic acid, agarose, alginate, xanthan gum, pectin, and dextran are some examples of polysaccharides. They are found in all living organisms and play a vital role in many biological processes. Polysaccharides are also used in a wide range of industrial applications, including food, cosmetics, pharmaceuticals, biotechnology, biomedicine, and environmental remediation, thanks to their diverse and versatile properties and their renewable nature. This Special Issue aims to provide a comprehensive platform for researchers, scientists, and professionals to present their latest findings, cutting-edge research, and innovative applications related to polysaccharides. We welcome original research articles and reviews that delve into the fundamental understanding of the structure and properties of polysaccharides, as well as their novel applications across various fields.

Guest Editor

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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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