Special Issue

Cellulose-Based Functional Materials

Message from the Guest Editors

Cellulose is one of the most abundant biomaterials in nature. It is a homopolymer of glucose linked with β,1-4 glycosidic bonds. Cellulose can be derived from plants (such as wood) and fabricated either as the scaffold biomaterials or as cellulose slurries for further functionalization. In the case of cellulose scaffold, chemical or enzymatic pretreatment of plants is critical to removing the lignin and hemicellulose, leaving appropriate space for the grafting of functional groups. Cellulose-based biomaterials are applied in wide areas, such as energy-saving building blocks, solar cells, phase-changing devices, water/oil separation, heavy metal remediation, coatings and paints, controlled-release fertilizer, etc. In this Special Issue, the functionalization, modification, and application of lignocellulosic biomaterials will also be considered.

Guest Editors

Dr. Weiqi Leng

College of Materials Science and Engineering, Nanjing Forestry University, Nanjing, China

Dr. Xuefeng Zhang

College of Forest Resources, Mississippi State University, Starkville, MS 39762, USA

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Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

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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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