Special Issue

Advanced Cellulose-Based Materials: From Nanoparticles to Complex Structures and Composites

Message from the Guest Editor

Along with its supreme presence in Nature, cellulose holds versatile and renewable engineering material attributes that have gained momentum in many technological areas. Its nano-forms (nanocrystals, nanofibrils) are types of intermediate products, obtained either by bottom-up bio-synthetic approaches (e.g., bacteria- or fungi-mediated fermentation) or top-down chemical and mechanical disintegration approaches applied to plants and trees. In both cases, the resulting nanocellulose delivers distinctive, well-documented features, making it a highly unique material family with an immense research portfolio. This Special Issue aims to attract publications with recent theoretical and experimental findings related to cellulose and nanocellulose isolation (top-down) or bio-processing (bottom-up), as well as its future manipulation in terms of selective modification, mixing, shaping and compounding with other non-cellulosic components in light of more demanding application niches. We welcome the submission of research and review papers delivering new data and collecting and critically commenting on recent publications, giving the future perspective in this attractive research area.

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 4.9.

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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