



Advances in Cellulose-Based Materials

Guest Editors:

Prof. Radosław Pankiewicz

Faculty of Chemistry, Adam Mickiewicz University in Poznań, Uniwersytetu Poznańskiego 8, 61-614 Poznań, Poland

Dr. Katarzyna Pogorzelec-Glaser

Institute of Molecular Physics Polish Academy of Sciences, M. Smoluchowskiego 17, 60-179 Poznań, Poland

Dr. Iga Jankowska

Institute of Molecular Physics Polish Academy of Sciences, 60-179 Poznań, Poland

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Message from the Guest Editors

As civilization develops, the need to use renewable sources of "green energy" as well as materials based on natural, renewable raw substances is increasing. An important aspect of the search for new functional materials is environmental performance. Therefore, the search is focusing on materials based on natural polymers, including the most abundant polymer in nature and the main building material of plants, i.e., cellulose. Materials based on cellulose are not only those derived from chemical modifications but also various types of composites. The synthesis of cellulose composites can deliver materials with specific properties. Their use is very wide and include biomedical materials implanted in the human body for the production and storage of energy. A very interesting application is the use of cellulose in the nanoscale, such as cellulose nanofibers, as a template to obtain nanocomposites with properties suitable for electrochemical devices, e.g., fuel cells, batteries, supercapacitors, etc. This Special Issue will focus on recent progress in the development of cellulose-based materials.





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Editor-in-Chief

Prof. Dr. Alexander Böker

Fraunhofer-Institut für
Angewandte Polymerforschung,
Lehrstuhl für Polymermaterialien
und Polymertechnologie,
Universität Potsdam,
Geiselbergstraße 69, 14476
Potsdam-Golm, Germany

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Polymers Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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