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Advanced Preparation and Application of Cellulose

Guest Editors:

Dr. Marta Fernandes
Centre for Textile Science and Technology (2C2T), Campus de Azurém, Universidade do Minho, 4800-058 Guimaraes, Portugal

Dr. Jorge Padrão
Centre for Textile Science and Technology (2C2T), University of Minho, 4800-058 Guimarães, Portugal

Deadline for manuscript submissions:
closed (29 February 2024)

Message from the Guest Editors

Today's world is witnessing a growing concern for the environment as a result of global warming, energy crises, and waste generation. The growing demand for products with a low environmental impact has led to a greater focus on sustainable and renewable materials by the scientific community. In this scenario, cellulose is one of the most prominent candidates for use in different fields of applications in a sustainable manner, with regard to its abundant availability from various resources. In particular, nanocellulose presents outstanding characteristics, such as renewability, a high aspect ratio, good mechanical properties, excellent biocompatibility, hydrogen-bonding capacity, reinforcing potential, and degradability.

The scope of this Special Issue is to report recent achievements in the advanced preparation and emerging applications of cellulose-based materials. In particular, topics of interest include, but are not limited to, the following:

- Healthcare;
- Water purification;
- Energy storage;
- Filtration;
- Environment;
- Automotive;
- Aerospace;
- Defence;
- Sensors;
- Adhesives;
- Packaging;
- Food;

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Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

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 5.0.

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.

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Contact Us

Polymers Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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