# Special Issue

# Recent Advances in Bioinspired Polymers

## Message from the Guest Editors

Bio-inspired lignocellulose-based nanomaterials are promising for potential applications in developing unprecedented products. The importance of these nanomaterials is tremendous, ranging from advanced applications in bionanocomposites, drug delivery, tissue engineering, and sensors, thanks to their attractive and excellent characteristics such as abundance, high aspect ratio, excellent mechanical properties, renewability, and biocompatibility. Thus, innovation via bio-inspired lignocellulosic nanomaterials has produced some great advances in multifunctional applications through applying bio-mimetic strategies. Therefore, recent advances in nanotechnology have been explored in order to isolate and engineer nanomaterials from different biological origins and to provide unprecedented features for advancing low-carbon or carbon-free nanobiocomposites. A key aspect of this Special Issue is the search for new strategies in the acquisition and use of lignocellulosic materials with an emphasis on both economic sustainability and energy efficiency.

## Guest Editors

Dr. Seyed Rahman Djafari Petroudy

Dr. Samaneh Shahgaldi

Prof. Dr. Ahmed Koubaa

## Deadline for manuscript submissions

closed (15 May 2024)

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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
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