

Special Issue

Synthesis, Characterization and Application of Polymeric Materials and Composites: 2022 Edition

Message from the Guest Editor

The continued growth of research in the field of polymers is a testament to the high-level performance of these materials in a wide range of applications in fields such as biomedicine, biotechnology, environmental remediation, energy, sensing, and packaging. To understand the behavior changes of polymer nanocomposites reflected on the structure, functionality, morphology, particle size, etc., it is necessary to use various analytical tools. Several classical characterization methods are known, such as thermogravimetric analysis, electron microscopy, NMR, and FTIR spectroscopy, which predict the microstructure, thermal and mechanical properties of the synthesized polymer nanocomposite. The aim of this Special Issue is to focus on interdisciplinary discussions related to the synthesis and characterization of polymeric materials and composites from both an application and a fundamental point of view. Of special interest are new preparation methods of multifunctional polymers and/or polymeric hybrid materials, new and/or improved properties of this material, as well as innovative application.

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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