Special Issue

Innovative and Functionalized Polymers: Processing, Development and Applications

Message from the Guest Editor

Over the past decades, the technology connected to the production and modification of polymers has exponentially grown in view of their applications and performances. The poor thermal and electrical conductivity, weak interfacial bonding and low robustness are a few of the limitations exhibited by most polymers. To overcome these drawbacks, polymers can be processed using a variety of physical or chemical approaches, including blending the polymer, incorporating fibers and nanoparticles or through the use of lithography or laser irradiation, just to name a few. Natural or synthetic polymeric matrixes are becoming leading solutions for fabricating flexible and stretchable electrically conductive materials, which are promising candidates for use in fundamental physics, wearable electronics and sensors. The design and fabrication of high-aspect-ratio features and three-dimensional patterns, the tailoring of the composition and density, and the porosity tunability of the polymeric matrices are demanding for their applicability. This Special Issue is focused on the use of hybrid or modified polymers used for technological or biomedical applications to create new materials.

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 4.7.

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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