Special Issue

Multi-Functional Polymer-Based Nanocomposites

Message from the Guest Editors

Multifunctional nanocomposite materials can be fabricated by combining a range of nanoscale reinforcement materials with a polymer matrix. Carbon nanostructures such as fullerenes, carbon nanotubes, carbon nanofibers, and graphene derivatives have attracted a great deal of attention in the last three decades. Their outstanding mechanical, electrical, thermal, and optical properties, as well as their large aspect ratios and higher specific surface area make them very attractive as ideal nanofillers, which can contribute to the development of composites with improved mechanical and special properties (e.g., electrical conductivity, thermal conductivity, magnetic permeability, barrier properties). The synergistic effect of nanofiller hybrids including graphene nanoplatelets and carbon nanotubes, metal or metal-oxide nanoparticles anchored on a graphene surface in a hybrid can be also applied to obtain functional polymer nanocomposites.

This Special Issue aims to attract high-quality research and/or review articles that will help us to further understand the properties of polymer-based multifunctional nanocomposites containing carbon nanostructures or their hybrids.

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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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