Special Issue

Preparation of Polymer-Based Nanocomposites

Message from the Guest Editor

Polymer nanocomposites have been widely used to address some of the most pressing challenges today such as energy and environmental issues due to their superior properties and multifunctionality. The addition of a variety of nanoparticles such as graphene, metals. and ceramics has greatly expanded the functions of polymers. The micro/nano structure and interfacial interactions between polymers and nanoparticles dictate the mechanical, electrical, and thermal characteristics of nanocomposites. Therefore, the control over microstructure of nanocomposites is key to achieving desired properties. In particular, for one-, two-, and three-dimensional nanoparticles, various assembly strategies have been developed to create unique structures and interfaces. In this Special Issue, we aim to discuss topics related to the preparation of polymer nanocomposites and their corresponding properties and applications, with an emphasis on novel assembly approaches.

Guest Editor

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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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