

Special Issue

Current Developments and the Future Potential of Multifunctional Polymer Nanocomposites: Properties and Applications

Message from the Guest Editors

The incorporation of nanofillers into polymer matrices has been considered an effective strategy to endow polymers with various functional performances. The past several years have witnessed significant developments in polymer nanocomposites in many aspects, such as electrical conductivity, thermal conductivity, fire retardance, sensing, reinforcing/toughening, biomedical properties, anti-bacterial properties, and many others. Even though polymer nanocomposites have greatly broadened the application of pure polymers in extensive application scenarios, there are still many challenges in fabrication and characterization, and potential utilizations like multifunction integration remain to be developed in polymer nanocomposites. These have attracted great interest from an increasing number of researchers. This Special Issue focuses on the current developments and the future potential of multifunctional polymer nanocomposites, referring to fabrication, properties, characterization, application and challenges in polymer nanocomposites. We invite researchers to share their latest works in the form of articles, reviews, letters, communications, and academic articles.

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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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