Special Issue

Multifunctional Polymer Nanocomposites

Message from the Guest Editors

Polymer nanocomposites have attracted considerable interest in both academia and industry, owing to their outstanding properties. The main advantages of nanocomposites, compared to conventional microcomposites, are the formation of a strong interfacial area and polymer/filler adhesion at interface. Adding nanoparticles to a polymer matrix not only increases the mechanical properties, like elastic stiffness and strength, but also provides novel functional properties, such as barrier resistance, flame retardancy, scratch resistance, and thermal and electrical conductivity, among others. It is possible to develop tunable materials for specific structural and functional applications. The scope of this Special Issue is to address the recent developments and applications of multifunctional nanoparticle/polymer nanocomposite, including fundamental structure/property relationships, processing techniques, and numerical modeling. Special emphasis will be placed on the development of nanocomposites for transport and energy applications.

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Deadline for manuscript submissions

closed (31 August 2020)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/38123

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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

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