Special Issue

Polymer-SiO_2 Composites II

Message from the Guest Editor

Silica is a common, particularly attractive material that is all around us. The bond enthalpy of Si–O is much larger than that of the C–O bond, rendering the thermal stability of silica, and its larger bond angle and longer bond length provide bond flexibility. In addition, uncondensed OH groups (silanol) on the silica surface make it easy for silica to connect with other materials, such as organic compounds, metal oxides, and metals.

Polymer/SiO2 composites can be customized in many ways to meet the needs of new cutting-edge technologies. For example, investigations on their applications in sensors, photoactive materials, filters, anodes in lithium-ion batteries, drug delivery systems, catalysts, and biocompatible materials have been conducted.

This Special Issue will cover, but will not be limited to, the following aspects of polymer/SiO2 composite chemistry and technology: novel preparation methods for polymer/SiO2 composites; mechanism of formation of polymer/SiO2 composites; novel micro- and macrostructural analysis of polymer/SiO2 composites; novel chemical and physical properties of polymer/SiO2 composites; and applications of polymer/SiO2 composites.

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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