Special Issue

Recent Developments in Functional Polymer Composites and Its Applications

Message from the Guest Editor

Functional polymer material, which is sensitive to external stimuli (electric fields, magnetic fields, light irradiation, pressure responses, thermal treatment, pH. glucose concentration, redox response, gas stimulation, and humidity), facilitates the dynamic transformation of physical structures or chemical properties, such as surface-wetting properties, assembly and disassembly in supramolecular chemistry, swelling and shrinkage in materials science, and controlled drug release. Some notable examples of these polymer materials include photosensitive polymers, conductive polymers, photoelectric conversion polymers, biomedical polymers, superhydrophobic-superhydrophilic composites, fibre-reinforced composites, and polymer catalysts. In recent years, functional polymer material has been rapidly developed due to its cross-disciplinary integration, which has provided some important applications in nanoscience, material science, microfluidic control, bioscience, and mechanical engineering fields.

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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 4.9.

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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