Special Issue

Polyelectrolyte Complexes in Polymer Science and Technology

Message from the Guest Editor

In recent year polyelectrolyte complexes have attracted great interest in the field of polymer science and technology as a novel and advanced tool capable of deeply modifying the final properties of a polymer (e.g., foams, textiles and thin films). The complex formation may occur directly on the polymer surface in a step-by-step fashion (layer-by-layer assembly) or in water for the production of complexes colloids to be either deposited as coatings in a single step approach or dried and melt-blended in a polymer matrix as innovative fillers. Thanks to the unique structure and the molecular scale interactions established upon complex formation the above mentioned approaches have been found capable of endow the modified polymer with unprecedented properties including toughening effects, strongly improved flame retardancy and extreme gas barrier. This special issue aims at collecting papers dealing with recent advances and discoveries in the field of polyelectrolyte/polyelectrolyte and polyelectrolyte/nanoparticle complexes applied to polymer science and technology.

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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