



Polyelectrolyte Complexes in Polymer Science and Technology

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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.





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Message from the Editor-in-Chief

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