Special Issue

Novel Approaches in Polymer-Based Drug Delivery Systems

Message from the Guest Editors

Among the Drug Delivery Systems (DDSs), one of the largest and most important sets is given by polymer-based DDSs, i.e., the systems made of polymers, both of synthetic and natural origin. The present Special Issue is devoted to collecting the most recent innovations on the design and the description of the behavior of polymer-based DDSs. The focus of this Special Issue will be on the advancement of the field via novel approaches in both preparation (on lab and industrial scale) and characterization (water and drug content, mechanical characteristics) methods, as well as on the mathematical description of DDS behavior (release kinetics, solvent uptake, swelling, etc.). Any related contribution will be welcome. In this Special Issue, original research articles and reviews are welcome. Contributions should include the following topics (although different contributions will also be considered): Development of new materials and new preparation methods;Development of new characterization methods;Mathematical modeling of the release process, with the aim to describe and predict drug delivery kinetics, even under various external stimuli.

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