



Pharmaceutical Applications of Polymers for Drug Discovery and Delivery

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Message from the Guest Editor

Dear Colleagues,

Polymers have numerous medical and pharmaceutical applications. The development of pharmaceutical dosage forms invites the potential for many functions of polymers. Significant research has been devoted to polymer-based drug delivery system (DDS) in recent years, and a number of promising applications for polymer-based delivery systems have reached the clinical stage. Despite these remarkable advances, more foundational and applied research is required to control the characteristics and performance of polymer-based DDS with precision. The promising applications of polymers include controlled and targeted drug release, the improvement of drug stability and the development of DDS, i.e. nanoparticles, microparticles, and hydrogels and nanogels. In addition to their more common uses as emulsifiers, suspending agents, binding agents, and flocculating agents, polymers are versatile enough to serve as adhesives, packaging materials, and coating materials. Pharmaceutical applications of polymers for drug discovery and delivery, are the focus of this Special Issue, which invites both reviews and original research articles on the subject.





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