

Special Issue

Innovative Polymeric Nanocarriers and Their Drug Delivery Applications

Message from the Guest Editor

This Special Issue aims to summarize the achievements and highlight the current developments in advanced drug delivery systems based on polymeric nanocarriers. Introduced in the 90s, polymeric nanocarriers have received growing attention during the last ten years with almost ten-fold increase in the number of publications. Compared to surfactant micelles, block copolymer micelles offer multiple advantages, including narrow size distribution and significantly lower critical aggregation concentrations, leading to higher stability and better retention of the drug. Such micelles can be used as both drug and gene delivery systems and offer infinite functionalization capabilities in terms of targeting specific tissues and cells, improving cell uptake and penetration across blood-brain barrier, achieving triggered release, etc. Many other interesting types of polymeric nanocarriers have been demonstrated recently, including DNA origami, polymer-coated nanoparticles, nanogel particles, and electrospan nanomaterials, to name a few. We welcome your contributions on all aspects of polymeric nanocarriers in this Special Issue.

Guest Editor

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