Special Issue

Polymer and Lipid-based Materials for Nanodrug Delivery Systems

Message from the Guest Editors

Biocompatible natural and synthetic materials have been designed for use in nanodrug delivery systems for several decades. They have improved the delivery and efficacy of a range of pharmaceutical compounds including drugs, genes, antibodies, peptides, and vaccines. In particular, polymer and lipid-based materials for drug delivery have been paid great attention. Many of these materials have been designed to enhance the delivery of a therapeutic to its target site and minimize off-target accumulation. This Special Issue focuses on the key findings and contributions regarding novel nanodrug delivery systems for therapy, diagnostics, and bioimaging. In this issue, we welcome original research articles and reviews related to topics including (but not limited to) the design, synthesis, and characterization of nano-formulations for the delivery of drugs, mRNA, photosensitizers, nanoenzymes, and lubricants; novel therapeutic approaches involving targeted delivery using designed functional nanocarriers; controlled release systems that can be magnetically, ultrasonically, or enzymatically triggered to increase release rates.

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