Special Issue

Hybrid Multifunctional Drug Delivery Systems

Message from the Guest Editors

The vast array of today's nano- and microparticle platforms include polymeric nanoparticles, lipid carrier systems as well as different types of inorganic particles. Hybrid drug carriers are the next frontier in the development of novel, multifunctional drug delivery systems, as they benefit from the synergistic properties of the individual components. Typical examples include functionalization of inorganic particles with organic constructs combining structural robustness with functional responsiveness. This course of action is usually taken in order to enhance drug encapsulation efficiency and to control drug release, or for the design of theranostic nanomaterials for simultaneous imaging and therapy.

This Special Issue aims to highlight recent advances in hybrid multifunctional drug delivery systems, with a focus on particle-based systems, ranging from synthesis methods and process understanding, their detailed physicochemical characterization and performance in vitro and in vivo, especially for controlled and/or targeted drug delivery applications.

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