Special Issue

Innovative Nanomaterials for Drug Delivery

Message from the Guest Editor

Nanomaterial-mediated drug delivery systems have been demonstrated to be advantageous for drug solubilization and stabilization, prolonging circulation time in blood, achieving organ- and tissue-specific delivery, facilitating cellular uptake, bypassing drug resistance mechanisms, etc. Naturally derived materials and synthetic materials have been developed for the delivery of small molecule drugs, peptides and proteins, and nucleic acids. Nanomaterial-enabled drug delivery systems are being investigated for a variety of therapeutic applications in oncology, infectious diseases, cardiovascular diseases, neurological diseases, autoimmune diseases, and many others. The safety and effectiveness of nanodrug delivery systems is closely associated with the physicochemical properties of carrier materials. Despite the great success, there is a long-standing demand for the development of novel nanomaterials with new and better properties for drug delivery. This Special Issue seeks to showcase articles that focus on novel design, synthesis, characterization, and application of innovative nanomaterials for the delivery of therapeutic agents.

Guest Editor

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