

Special Issue

Nanoparticle-Based Drug Targeting

Message from the Guest Editor

During the last few decades, organic or inorganic nanoparticles have been extensively investigated in the field of biomedical engineering for drug targeting issues. Since nanoparticles have extremely small dimensions and huge surfaces, they are spotlighted in drug targeting issues, i.e., nanoparticles are able to target specific cells or tissues and, therefore, can be considered as a promising candidate to treat incurable diseases such as cancer, neurodegenerative disease and severe inflammation. Due to their huge surfaces, their surface can be decorated with various molecules for targeting specific receptors of diseased cells. Various strategies have been attempted to maximize drug targeting against diseased cells using monoclonal antibody–drug/nanomaterial conjugates, vitamin or peptides, enzymes, saccharide/polysaccharide–drug conjugates, stimuli-sensitive biopolymers, etc. Various materials such as inorganic molecules, polymers, proteins, polysaccharides, carbon-based nanomaterials and liposomes have been developed to fabricate nanoparticles and to achieve drug targeting purposes.

Guest Editor

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