Special Issue

Nanomaterials for Drug Delivery Application

Message from the Guest Editor

The concept of drug delivery is undoubtedly one of the most promising developments we have witnessed in medicine and pharmacology. Classical systemic administration of drugs largely limits their efficacy and leads to numerous side effects, which are particularly damaging in cancer therapies. Drug delivery systems, on the other hand, can bring drugs or nucleic acids specifically to the targeted organs, cells, and even cellular compartments with no or minimal damage to healthy tissues. Nowadays, an ever-increasing toolbox of drug delivery systems is available; however, only a handful of drug delivery systems have made it from the laboratory stage to the market, and our understanding of their uptake mechanisms is rather limited. In this Special Issue, we aim to cover recent advances in this vast and rapidly growing field and invite manuscripts on various nanomaterials for drug delivery, including liposomes, polymeric micelles and gels, electrospun and electrosprayed materials, DNA origami, protein and peptide assemblies, as well as other organic and inorganic nanoparticle drug carrier systems. We further welcome studies on targeting mechanisms, recognition, uptake, and drug release.

Guest Editor

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Deadline for manuscript submissions

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Materials (ISSN 1996-1944) was launched in 2008. The journal covers twenty-five comprehensive topics: biomaterials, energy materials, advanced composites, advanced materials characterization, porous materials, manufacturing processes and systems, advanced nanomaterials and nanotechnology, smart materials, thin films and interfaces, catalytic materials, carbon materials, materials chemistry, materials physics, optics and photonics, corrosion, construction and building materials, materials simulation and design, electronic materials, advanced and functional ceramics and glasses, metals and alloys, soft matter, polymeric materials, quantum materials, mechanics of materials, green materials, general. *Materials* provides a unique opportunity to contribute high quality articles and to take advantage of its large readership.

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