

Special Issue

Innovative Drug Delivery Platforms: From Natural to Engineered Materials

Message from the Guest Editor

The innovations in Drug Delivery Systems are strongly associated with the development of support materials as well as their functionalization in order to assure targeting, internalization, tuned delivery rate and profile, etc. This Special Issue focuses on multifunctional, smart drug delivery systems for diagnosis and treatment of cancer, infections, and diabetes, etc. Regarding desired support materials, we are especially looking for natural and synthetic polymers, carbonaceous materials (carbon nanotubes, fullerenes, graphene, etc.), oxides (including micro and mesoporous materials), metal nanoparticles (silver, gold, etc.), and composite materials. The mechanism of delivery can be mainly based on diffusion, swelling, or chemical reaction; can be triggered by any factors such as temperature, pH, enzymes, or different external factors such as light, alternating electromagnetic fields, etc.; and can be resorbable or non-resorbable supports, etc. Additionally, manuscripts devoted to the study of the potential, short, mid-, and long-term efficiency and toxicity related to the use of drug delivery systems are welcome.

Guest Editor

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