Special Issue

Biomaterials for Drug Delivery: Recent Advances and Discoveries

Message from the Guest Editor

In the last two decades, the biomaterials field has progressed tremendously. One of the most interesting areas of biomaterial engineering is drug-delivery system (DDS) technology, including liposomes, nano- or microparticles, microspheres, gels, prodrugs, dendrimers, cyclodextrins, composite carriers and others. It is commonly known that by developing a variety of DDSs, it is now possible to better control the pharmacokinetics, pharmacodynamics, toxicity, immunogenicity and efficacy of drugs. To date, many polymeric, ceramic, carbon and composite DDSs have been investigated. However, only a few are currently used in commercial products. The main problem with the DDSs obtained to date probably lies in the lack of full control of drug release. This Special Issue aims to identify and review the latest biomaterials for drug delivery, which can potentially be used in oncology, cardiology, neurodegenerative diseases, etc.

Guest Editor

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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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