

Special Issue

Modulation of Physico-chemical and Therapeutic Features of Drugs by Biocompatible Materials

Message from the Guest Editor

As you are aware, the use of biocompatible materials noticeably modulates the physico-chemical, biopharmaceutical, and pharmacological properties of many active compounds. In particular, the encapsulation/complexation of drugs using biodegradable delivery systems, made up of phospholipids, polymers, polysaccharides, proteins, etc., represents a suitable approach that is able to increase their therapeutic efficacy and decrease their side effects. The lack of toxicity of the aforementioned formulations favours their application through various administration routes, obtaining a significant increase of the half-life of the delivered compound(s).

Moreover, the opportunity of promoting the localization of drugs in specific tissues is another feature of biomaterial-based drug carriers obtained by passive and active targeting approaches as a function of their composition and surface characteristics.

The aim of this Special Issue is to describe the advancements concerning the development of innovative biocompatible formulations for pharmaceutical applications.

Guest Editor

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Deadline for manuscript submissions

closed (20 February 2019)



Materials

an Open Access Journal
by MDPI

Impact Factor 3.2
CiteScore 6.4
Indexed in PubMed



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Message from the Editor-in-Chief

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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