Special Issue

Nanomaterials Design towards Biomedical Applications

Message from the Guest Editors

We would like to invite you to contribute a full article, short communication, or review article to the Special Issue, which will include topics on the design of new biocompatible nanosystems suitable for use in the biomedical domain. In recent decades, a rapidly-growing number of organic, inorganic, and even hybrid nanomaterials have been proposed and developed for diagnostic and therapeutic applications, thanks to their versatile properties. In particular, the vast range of applications of nanomaterials include drug delivery, imaging, theranostics, vaccines and biosensors. Moreover, nanomaterials are highly interesting, as they can be functionalized in order to add suitable functional groups onto their surface as appropriate sites for the conjugation of specific ligands, ranging from small molecules to proteins and polysaccharides. Nevertheless, for application in the biomedical field, biocompatibility, biodegradability, the absence of toxicity, and the immunogenicity of these different classes of nanomaterials are important issues that need to be considered during their development; moreover, regulatory aspects must be carefully considered.

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Deadline for manuscript submissions

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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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