Special Issue

Biocompatible Surface Functionalization of Nanomaterials

Message from the Guest Editor

As we know, many nanotools contain toxic materials or specific dangerous synthesis by-products. Full biocompatibility is needed to prepare successful nano-products for application in the biomedical field. This goal can be obtained by providing specific surface functionalization of the nanomaterials aimed at confining or abrogate their core toxicity. Common techniques of surface coating are currently exploited using biocompatible polymers, organic or biological molecules. These procedures are not always effective in biological environments. Major difficulties are related to the dispersion/aggregation of nanomaterials in colloidal suspensions and the stability of the attached biocompatible moieties.

The present Special Issue is aimed at providing novel approaches to biocompatible nanomaterials' functionalization. The focus is on the biocompatibility, immune escape or immune-stimulation, and enhanced performances of nanomaterials for biomedical applications. Innovative research articles, as well as critical reviews of the literature, will be welcome to provide an expert opinion and critical discussion.

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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