Special Issue

Toxicity and Functionalization of Nanomaterials

Message from the Guest Editor

Dear colleagues, Nanomaterials are miniaturized active matrices for the immobilization of chemical and biological entities, contributing to the ultrasentive detection of environmental pollution or medical diagnostics at different levels. On the other hand, nanomaterials are used in the preparation of medicines, cosmetics, food and beverages. Many research groups are focusing on the synthesis of naked and (bio)functionalized metallic and non-metallic nanomaterials of controlled or random shapes and sizes. Nowadays, the potential toxicity of such nanomaterials is poorly explored or even ignored. The aim of this Special Issue is to raise awareness among the scientific community of the urgent need to develop sensitive protocols/tools to rapidly assess the toxicity of nanomaterials and to avoid irreversible changes in human health and biotas. Articles addressing reproducible, robust and specific (bio)functionalization routes of nanomaterials are welcome. Systematic studies on the toxicity of nanomaterials for living cells and microorganisms are highly solicited.

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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