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Toxicity and Functionalization of Nanomaterials

Guest Editor:

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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.

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Message from the Editor-in-Chief

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