Special Issue

Nanotechnology Challenge: Safety and Safer Design of Nanomaterials

Message from the Guest Editors

Nanotechnology as a field of applied science and technology is helping to improve the quality of life on multiple aspects: environment, medicine, healthcare, energy, food, etc. Through increasing demands in nanotechnology, engineered nanomaterials (ENMs) are manufactured with different physicochemical properties (e.g., size, shape, aspect ratio, crystal structure, chemical composition) for commercial and industrial products in the marketplace. Thus, this Special Issue is to seek the challenge of nanotechnology to better understand environmental behavior, developing new approaches in safety assessment and designing safer nanomaterials.

The aim of this Special Issue includes but not limited to:

Structure–activity relationships at bio-interfaces;
Biological responses to ENMs;
Environmental fate and transport;
New tools in hazard and risk assessment of ENMs;
Nanomaterial characterization techniques;
Design and synthesis of safer nanomaterials.

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Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

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