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From Measurements to Predictive Models: Recent Advancements in Nanosafety Research

Guest Editors:

Prof. Dr. Tae-Hyun Yoon

Prof. Dr. Eugenia Valsami-Jones

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Dr. Zayakhuu Gerelkhuu

Deadline for manuscript submissions:
closed (31 January 2022)

Message from the Guest Editors

Dear Colleagues,

Understanding the interactions of engineered nanomaterials with biological systems and the environment is becoming increasingly important due to the rapid growth of the nano-industry, such as biomedical applications of nanomaterials for therapeutics and diagnosis. In this Special Issue, we invite reviews, research articles and communications on recent advancements in nanosafety research. The potential topics for this Special Issue include but are not limited to:

- Advanced characterization methods for nanomaterials and nanoproducts;
- Novel assessment methods with single-cell resolution for probing the heterogeneities of nanoparticles interacting with complex biological systems;
- Advanced models developed with novel algorithms and/or high-dimensional datasets collected with high-content and high-throughput assay methods;
- Physicochemical characterization, toxicity assessment and predictive-model development for novel nanomaterials.

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Message from the Editor-in-Chief

Nanoscience and nanotechnology are exciting fields of research and development, with wide applications to electronic, optical, and magnetic devices, biology, medicine, energy, and defense. At the heart of these fields are the synthesis, characterization, modeling, and applications of new materials with lower nanometer-scale dimensions, which we call “nanomaterials”. These materials can exhibit unusual mesoscopic properties and include nanoparticles, coatings and thin films, metal–organic frameworks, membranes, nano-alloys, quantum dots, self-assemblies, 2D materials such as graphene, and nanotubes. Our journal, *Nanomaterials*, has the goal of publishing the highest quality papers on all aspects of nanomaterial science to an interdisciplinary scientific audience. All of our articles are published with rigorous refereeing and open access.

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