Special Issue

Advancements in Nanotoxicology

Message from the Guest Editor

Nanomaterial science continues to advance with the generation of more complex nanostructures with exciting potential applications. There have been parallel advances in the biological sciences aimed at evaluating the biocompatibility of these novel nanoparticles. Over recent years, we have realized that evaluating nanoparticles and biological interactions is quite complex because local environmental conditions influences particle behavior, and thus biocompatibility. In order to advance the development of safer high performing products, we need to understand the structural basis for these dynamic behaviors. In this Special Issue, we are especially interested in manuscripts that advance the understanding of the specific nanomaterials attributes that govern or influence nanomaterial behavior and biocompatibility. This Issue invites manuscripts ranging from understanding dynamic behaviors of particles in aqueous environment, cellular toxicity, whole animal toxicity, neurotoxicity, immunotoxicity, genotoxicity, and population scale effects. Manuscripts that define specific biological responses at the organismal, gene expression, proteomic, and genetic levels are also invited.

Guest Editor

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Deadline for manuscript submissions

closed (30 April 2015)

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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.

Editor-in-Chief

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