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Frontiers in Nanotoxicology

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Message from the Guest Editor

Dear Colleagues,

Nanotoxicology is an arising discipline interested in characterizing and categorizing the adverse effects induced by nanomaterials for determining relationships of structure and function between nanoparticles and toxicity. The application of nanotechnology is one of the fastest growing areas of materials science, but the applied research in nanotechnology is ahead of nanotoxicological research.

This Special Issue will combine scientific articles and reviews devoted to such problems of nanotoxicology as the biological effects of both widely known and emerging nanomaterials, the effects of nanoparticle size, geometry and surface properties on toxicity and dose-response relationships, cell and molecular mechanisms of nanotoxicity, environmental toxicology of nanomaterials, research of nano-bio interfaces, new research methods for nanotoxicology and nanomedicine, predictive and personalized nanotoxicology. Works based on an interdisciplinary approach regarding new biomedical nanomaterials are also welcomed.

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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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