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Toxicity Assessment of Metal Nanoparticles and Metal Oxide Nanoparticles

Guest Editor:

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Message from the Guest Editor

With the rapid development of nanotechnology, metal and metal oxide nanoparticles have been applied in various fields, such as the food industry, the medical system and chemical engineering, because of their unique properties. However, with the large-scale preparation and wide application of nanomaterials, its potential harm to the environment and human beings has attracted more and more attention. Therefore, toxicity assessment is an essential and blossoming field, which mainly focuses on investigating the potential adverse effects of nanoparticles and their potential toxicity mechanisms. The systematic assessment of the toxicity of metal nanoparticles and metal oxide nanoparticles and their mechanisms can not only protect human health and the environment but can also help maximize the safe application of nanomaterials in various fields.

We invite authors to contribute original research articles or comprehensive review articles covering the toxicological assessment of metal nanoparticles, such as Au and Ag, and metal oxide nanoparticles, such as TiO_2, ZnO, CeO_2, MoO_x, Fe_2O_3 and CuO_x, on the human body and the environment. Look forward to receiving your contributions.

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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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