

Special Issue

Toxicity Evaluation of Nanoparticles

Message from the Guest Editors

The increasing production and application of nanomaterials inevitably release these materials into the environment, causing adverse impacts on the ecosystems and human health. Such toxicities must be reliably assessed, mechanisms elucidated, and risk predicted. Therefore, it is essential to develop powerful methods for evaluation of nanotoxicity, such as in vitro methods (e.g. cell based or cell free testing), animals tests (e.g. zebra fish), and computational modeling. Given this background, this Special Issue will assemble high-quality original research and reviews papers highlighting investigations on nanotoxicity using various biological models and in-depth mechanism elucidation. This special issue will also focus on applications of advanced machine learning, deep learning algorithms in nanotoxicity modeling and prediction, and molecular simulation in elucidation of the mechanisms for emerging nanomaterials. ,

Guest Editors

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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. We are proud of our increasing impact factor and ability to provide rapid decisions to authors.

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