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Nanotoxicity Analysis

Guest Editor:

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Deadline for manuscript submissions:
closed (15 October 2022)

Message from the Guest Editor

The increasing use of nanomaterials over a wide range of applications has led to an urgent need to evaluate the impact of these new materials on human health and the environment. To date, the potential toxicity of nanomaterials and their interaction mechanisms with cells and living organisms have not been fully addressed. Examining the toxic effects of nanomaterials at the molecular level can be useful for gaining insights into the mechanisms of toxicity and for identifying potential candidate biomarkers of exposure and response. This Special Issue is open to original research articles, as well as review papers, and it will focus on the use of analytical and bioanalytical techniques for nanotoxicity investigations, covering everything from sample treatment and analysis using different approaches including omics techniques, to chemometric and bioinformatic tools used for data processing. Articles dealing with the development of novel analytical approaches and/or their use to the study of toxicity mechanisms induced by exposure to nanomaterials, as well as for the identification of potential biomarkers of toxicity or response, will be welcome.

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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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