Special Issue

Risk Assessment of Nanomaterials Toxicity

Message from the Guest Editors

Regarding the increasing use of nanomaterials in almost every area of our daily life, toxicological risk assessment is one major requirement for their safe handling. Especially at workplaces, inhalation is the major route of exposure and potential toxicity, and the effect on the lungs needs to be considered. Furthermore, neurotoxicity associated with the exposure to nanomaterials is a growing field of scientific investigation. This Special Issue aims to highlight recent advances in mechanisms of nanomaterial toxicity as well as approaches for risk assessment, linking nanoparticle characteristics as well as in vitro toxicity to in vivo observations for advanced risk assessment.

Guest Editors

Prof. Dr. Andrea Hartwig
Karlsruhe Institute of Technology (KIT), 76131 Karlsruhe, Germany
Dr. Christoph van Thriel
Leibniz Research Centre for working environment and human factors (IFADO), 44139 Dortmund, Germany

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Nanomaterials
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
nanomaterials@mdpi.com

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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.

Editor-in-Chief

Prof. Dr. Eugenia Valsami-Jones
School of Geography, Earth and Environmental Science, University of Birmingham, Birmingham B15 2TT, UK

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