



Nanomaterials and Nanoparticles: Sources, Toxicity, and Impacts on the Environment and Health

Guest Editor:

Prof. Dr. Eleonore Fröhlich

Center for Medical Research,
Medical University of Graz

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Message from the Guest Editor

Dear Colleagues,

As a result of the broad use of nanoparticles in industry, cosmetics, and domestic articles, exposure to the general population has increased over the years. In addition to directly affecting humans, accumulation in the environment and the risk of potentially adverse effects in natural systems have become issues of concern. Particle properties generally change when in contact with biological materials, and the characterization and quantification of nanoparticles in complex matrixes remains a challenge for analysis. The adsorption of contaminants at a large particle surface may enhance their biological effects. Biological effects may be due to nanoparticles and their specific properties, but may also be caused by ions released from the particles. Furthermore, the physiological aspects of the different exposure routes have to be taken into account.

This Special Issue is open to original research, review articles, case reports, and meta-analyses that help to understand the exposure levels, accumulation, effects, and modes of action of nanoparticles present in the environment.

Prof. Dr. Eleonore Fröhlich

Guest Editor





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Editor-in-Chief

Prof. Dr. Paul R. Ward

School of Society and Culture,
Adelaide University, Adelaide
5001, Australia

Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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Health* Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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