



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

Guest Editor:

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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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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Discovery and advances in this research field play a critical role in providing a scientific basis for decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards. *IJERPH* provides a forum for discussion of discoveries and knowledge in these multidisciplinary fields. Please consider publishing your research in this high quality, peer-reviewed, open access journal.

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