

International Journal of *Environmental Research and Public Health*



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

Guest Editor:

Message from the Guest Editor

Prof. Dr. Eleonore Fröhlich Center for Medical Research, Medical University of Graz

Deadline for manuscript submissions: closed (30 June 2019) 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

Message from the Editor-in-Chief

Prof. Dr. Paul B. Tchounwou

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