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Toxicity Assessment of Ambient Nanoparticles

Guest Editors:

Prof. Dr. Luc Ferrari

Institut Jean Lamour, UMR 7198
CNRS-Université de Lorraine,
Nancy, France

Dr. Pernille Høgh Danielsen

National Research Centre for the
Working Environment,
Copenhagen, Denmark

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Message from the Guest Editors

Nanomaterials are elements with structures and properties different from those of conventional molecules. These properties make them the object of multiple uses. During these uses, there may be releases of nanomaterials into the ambient air, which requires a risk assessment of these nanomaterials. For this assessment, it is necessary to have an identification of the hazard, either by animal studies or by in vitro studies, ranging from the simple identification of organ toxicity to mechanistic approaches involving the use of omics analysis. In some cases, prediction of the danger could be realized with QSAR approaches, or the construction of AOP. It is also necessary to determine the methods of analysis of these nanomaterials in the ambient air, which collection techniques, and the appropriate analytical techniques to render the result within a timeframe relevant to the needs of public health or occupational health. Some known exposures to these nanomaterials, and the data from available epidemiological studies will also be discussed. Finally, prediction tools will be also presented and their capacity to detect the danger or some nanomaterials will be discussed.



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Special Issue



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Editor-in-Chief

Dr. Demetrio Raldúa

Department Environmental
Chemistry, IDAEA-CSIC, Jordi
Girona 18, 08034 Barcelona,
Spain

Message from the Editor-in-Chief

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Contact Us

Toxics Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
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