


ECOTOXICITY OF NANOMATERIALS IN THE AQUATIC AND TERRESTRIAL ENVIRONMENTS

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ABSTRACT

The development of NMs used in medicine exhibits an exponential growth, thus the safety of NMs is of high priority and important amounts of these materials could have been introduced into the environment. Thus, the investigation of NMs' ecotoxicity in the environment is of high interest.

Ecotoxicity measurements of NMs are conducted on different trophic levels including plants, invertebrates, and vertebrates. Ecotoxicity assays have been standardized for soluble substances, and thus, their adaptation for NMs is needed.

In this presentation, the ecotoxicity of NMs is described in comparison with their base substances in both aquatic and terrestrial ecosystems.

Keywords: ecotoxicity assays, adaptation of assays for nanomaterials, aquatic and terrestrial assays guidelines, comparison of ecotoxicity of nanomaterials and their base substances

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