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Toxic Effects of Different Types of Zinc Oxide Nanoparticles on Algae, Plants, Invertebrates, Vertebrates and Microorganisms

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**Highlights**

Effects of different ZnO nanoparticles on different species are summarized

Toxicities induced by ZnO nanoparticles mainly act by three kinds of mechanism

Four perspectives are put forward for future toxicity study of ZnO nanoparticles

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