



Freshwater Ecosystems and Micro- (Nano) Plastics: Abundance, Toxicological Impact and Quantitative Methods

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The presence of microplastics (MPs) and nanoplastics (NPs) in freshwater ecosystems has become a global concern. These plastic particles, ranging from 1 µm to 100 nm in size, are ubiquitous in aquatic environments and have the potential to cause physical and chemical damage to organisms. The abundance of MPs and NPs in freshwater ecosystems is increasing rapidly, and their toxicological impact on aquatic life is becoming increasingly apparent. This review discusses the current state of knowledge regarding the abundance, toxicological impact, and quantitative methods for detecting and measuring MPs and NPs in freshwater ecosystems. The review highlights the need for improved quantitative methods and the importance of understanding the toxicological impact of these plastic particles on freshwater ecosystems.

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