

Special Issue

Ecological and Human Health Risk Assessment of Micro- and Nanoplastics

Message from the Guest Editors

Global plastic production has increased exponentially over the past decades. Plastic products can be slowly degraded into smaller pieces (micro- or even nanoplastics). Micro- and nanoplastics are a potential planetary boundary threat, either purposefully made or forming through ageing and weathering effects.

Human exposure to microplastics is via both dietary sources and by inhalation. Microplastics can be small enough to be engulfed by cells and be transported by the lymphatic and blood systems, with the potential to bioaccumulate.

humans are exposed to micro- and nanoplastics through their diet, drinking water or inhalation. However, our understanding of the fate and toxicity of these plastic particles in humans constitutes a major knowledge gap, rendering it difficult to carry out proper science-based risk assessment and management. This Special Issue welcomes any submissions focusing on the latest findings, evidence on the exposure and risk assessment of micro- and nanoplastics to better understand the threat. Studies examining new sources of microplastics, improved detection methods and in vitro tools are welcome.

Guest Editors

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Deadline for manuscript submissions

closed (31 March 2021)



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About the Journal

Message from the Editor-in-Chief

Toxics (ISSN 2305-6304) is an international, peer-reviewed, open access journal which provides an advanced forum for studies related to all aspects of toxic chemicals and materials. We aim to publish high quality work that furthers our understanding of the exposure, effects, and risks of chemicals and materials in humans and the natural environment as well as approaches to assess and/or manage the toxicological and ecotoxicological risks of chemicals and materials. Please consider publishing in *Toxics* when preparing your next paper.

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