Special Issue

Ecotoxicological Effects of Microplastics on Aquatic Species

Message from the Guest Editors

This Special Issue aims to consolidate high-quality research that advances the mechanistic understanding of how microplastics impact the health, behavior, and physiology of aquatic species across all trophic levels. Studies elucidating causal relationships, chronic effects, and multigenerational impacts are welcome, ultimately supporting more accurate environmental risk assessments. This Special Issue welcomes original research and review articles covering, but not limited to, the following topics:

- Ingestion, uptake, tissue translocation, and elimination dynamics.
- Physiological effects: Inflammation, oxidative stress, metabolic disruption, and organ pathology.
- Behavioral changes, including feeding, predator avoidance, and reproduction.
- Trophic transfer and impacts on population and community dynamics.
- Interactive effects of microplastics with co-occurring pollutants (e.g., hydrophobic chemicals, and heavy metals).
- Advanced methodologies for detecting, characterizing, and quantifying effects in laboratory and field settings.

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Message from the Editor-in-Chief

In the context of global changes, the sustainable management of water cycles, going from global and regional water cycles to urban, industrial and agricultural water cycles, plays a very important role on the water resources and on their relationships with food, energy, biodiversity, ecosystem functioning and human health. *Water* invites authors to provide innovative original full articles, critical reviews and timely short communications and to propose special issues devoted to new technological and scientific domains and to interdisciplinary approaches of the water cycles. We ensure a critical review process and a quick turnaround between submission and final decision.

Editor-in-Chief

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