Special Issue

Toxicology in Freshwater Ecosystems

Message from the Guest Editor

Freshwater ecosystems are increasingly threatened by various contaminants stemming from industrialization and urbanization. Emerging contaminants, such as pharmaceuticals, personal care products, microplastics and nanoparticles, toxic metals, and excess nutrients, pose significant risks to aquatic life and ecosystem health. Understanding these impacts is crucial for developing effective mitigation strategies. This Special Issue aims to advance the understanding of how various toxicants affect freshwater environments. We seek research that elucidates mechanisms of toxicity at molecular, cellular, and organismal levels and examines the ecological consequences of contaminant exposure. We aim to fill existing knowledge gaps and propose novel approaches to mitigate adverse effects. By integrating ecotoxicology, environmental chemistry, and conservation biology perspectives, we aim to foster interdisciplinary dialogue and highlight nature-based solutions for restoring and preserving freshwater ecosystems. Contributions that explore the interactions between multiple stressors and the role of environmental variables in modulating toxicity are highly encouraged.

Guest Editor

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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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