



New Insights into Impacts of Toxic Metals in Aquatic Environments

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Message from the Guest Editors

Toxic metals remain an important threat to aquatic ecosystems, despite regulatory efforts to reduce their release. Several historical toxic metals already appear in the list of priority substances of environmental issue, while concerns arise from the increasing use of technology-critical metals, such as metallic nanoparticles, and rare-earth and platinum group metals. In aquatic environments, various chemical, biological, and physical processes determine metal concentration, speciation, and impact on the biota. This Special Issue invites critical reviews and research papers providing innovative insights into toxic metal impacts in freshwater and marine environments.

The specific emphasis is on novel approaches and models addressing (i) the cellular and molecular impacts as investigated using one or several omics approach; (ii) trophic transfer and impact along food chains; (iii) ecological effects at population and community levels; and (iv) the combined action of toxic metals and the changing climate. We are particularly interested in contributions concerning various aspects of the ecotoxicology of toxic metals in mixtures or at different levels of biological organization.





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Message from the Editor-in-Chief

Environmental issues are quickly becoming central political, economic and academic topics of the twenty-first century. A large number of modern challenges are directly or indirectly caused by complex interactions between environmental issues. Such issues require interdisciplinary research, knowledge and insights to understand and, ultimately, for solutions to be found. Through the journal *Environments*, we strive to create a platform for meaningful discourse by accepting contributions from a wide range of fields. We sincerely hope you will consider publishing your distinguished work in this highly-accessible, peer-reviewed journal.

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