



Contaminants Occurrence, Transport and Reactivity in Aquatic Ecosystems and Utilities

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Message from the Guest Editors

Nearly every form of human activity strongly impacts the aquatic environment, from water intake and wastewater production to waste disposal and leachate leaks into groundwater and surface water. This activity, combined with natural phenomena and the rapidly changing climate, severely threaten the aquatic environment.

Possible consequences include periodical local shortages of water for drinking, domestic, agricultural and industrial purposes and a significant deterioration in water quality, limiting or completely preventing its use. These factors may hinder or inhibit the activities of fauna and flora, including those consumed by humans. Threats to the aquatic ecosystem include intensive, human-induced eutrophication, an increase in heavy metal concentrations and numerous contaminants, such as microplastics, pharmaceuticals and personal care products, polluting surface waters and groundwaters, seas and oceans. Contaminated water drawn for human use must undergo a complicated treatment process and poses a great risk to the users.

In order to protect the aquatic ecosystem and improve human livelihoods, research is needed within the scope of this Special Issue.





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Message from the Editor-in-Chief

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