

Special Issue

Spatial Variability of Chemical Composition, including Concentration Levels of Pollutants, in Freshwater Ecosystems

Message from the Guest Editors

Water, as an indispensable resource for all organisms, has in recent years been increasingly exposed to various types of contaminants, especially as human population grows. Freshwater ecosystems are endangered due to fast development and incorrect management of many human activities regarding, e.g., industrial effluents, wastewater/leachate management or agricultural activities. Pollutants generated by these activities can be accumulated in freshwater for an exceptionally long time, depending on their special characteristics, and can be toxic for many organisms. Furthermore, unpredictable shifts in climatic and meteorological phenomena, such as rapid changes in temperature and precipitation, may also have a crucial impact on the functioning of aquatic reservoirs, including negative effects on organisms' development. To conclude, the management of freshwater ecosystem quality is of special importance. This Special Issue combines challenges related to the investigation of freshwater chemical composition, as well as detection of potentially toxic pollutants and available methods for reducing their concentration levels in water, and further, in all elements of the environment.

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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

Dr. Jean-Luc PROBST

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