



Water Pollution: Human Health and Ecological Risks

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Message from the Guest Editors

Water is an important natural resource that all living creatures on Earth depend on. However, a United Nations' report indicates that 2.2 billion people worldwide cannot access safe drinking water. Waterborne diseases account for 80% of human diseases according to the WHO. Other creatures besides humans are also suffering adverse effects caused by exposure to a cocktail of contaminants in waters. Water pollution has been a great global concern in the past decades. The water contaminants are mostly anthropogenic, such as POPs, PPCPs, disinfection by-products, heavy metals, microplastics, etc. They are toxic and able to act as environmental endocrine disruptors that threaten human health and ecosystems.

This Special Issue aims to explore the state of the art in these issues, and attempts to provide a comprehensive perspective. Potential topics include but are not limited to the diagnosis of water pollutant sources, new monitoring and chemical analytical devices or technologies, modeling approaches for environmental fate and exposure, the toxicity of pollutant mixtures, and strategies for water pollution management.





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Message from the Editor-in-Chief

Addressing the environmental and public health challenges requires engagement and collaboration among clinicians and public health researchers. Scientific discoveries and advances in this research field play a critical role in providing a rational basis for informed decision-making toward control and prevention of human diseases, especially the illnesses that are induced from environmental exposure to health hazards.

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