Special Issue

Emerging Contaminants in Water Environment: Sources and Hazards

Message from the Guest Editors

Emerging contaminants (ECs) constitute a suite of manmade or naturally occurring chemicals. The most prevalent ECs in the aquatic environment include micro- and nanoplastics, disinfection byproducts, PFAS and PPCPs. Recent advances in analytical techniques have facilitated the discovery and quantitation of numerous ECs. Ecs have multiple sources, including storm runoff, fisheries, landfill leachate, as well as municipal, industrial, and agricultural wastewater discharge. The ecotoxicological effects on the aquatic organisms include reduced eco-function and nutritional quality, bioaccumulation and biomagnification, and various acute and chronic toxicities. Therefore, establishing state-of-art protocols for pollution source identification and risk assessment of ECs in various aquatic compartments is urgently needed. This Special Issue aims to collect original, high-quality articles related to the identification of the key sources, transfer mechanisms, and environmental behavior of ECs and discuss the hazards and risks that ECs pose to the aquatic ecosystems. For more details, please find at: https://www.mdpi.com/journal/water/special_issues/ECs_Water

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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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