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The Risk of Pharmaceuticals and Personal Care Products (PPCPs) and Microplastics in Water Bodies

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Deadline for manuscript
submissions:

closed (31 December 2021)

Message from the Guest Editors

Pharmaceuticals and personal care products (PPCPs) and microplastics are ubiquitous emerging environmental contaminants. The presence of these contaminants in different water bodies has increased concerns regarding their adverse effects to wildlife and humans. The aquatic environmental risk posed by PPCPs and microplastics is evaluated in light of the fate, persistence, bioaccumulation, degradation, and toxicity effect. The pollution is so intense that life has become threatened. For instance, more than 145 PPCPs (such as caffeine, diphenhydramine, carbamazepine, ibuprofen, and triclosan) were detected at high concentrations in Eurasian perch fish. More seriously, microplastics can be a carrier of contaminants, which can increase adverse effects against wildlife and humans. PPCPs and microplastics are a great dangerous cocktail in water bodies.

This Special Issue's potential topics include but are not limited to:

Pharmaceuticals and personal care products,
microplastics, other emerging contaminants;

New methods and systems of analysis and detection;

Fate, toxicity, and other bioeffects;

Remediation, elimination, and mitigation;

Waste management, et al.



mdpi.com/si/83575

Special Issue



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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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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