Special Issue

Antibiotics in Water and Wastewater and Their Effects on Microbial Communities

Message from the Guest Editor

Nowadays, it is impossible to imagine the modern world without chemical agents, including antibiotics, which in the 20th century were considered a miraculous discovery of medicine. However, the consequence of their widespread use and abuse, as well as improper and non-intended use, is their presence and spread in the environment, particularly in aquatic ecosystems. Their durability and mobility in the environment allow them to penetrate from sewage treatment plants and household and agricultural sewage, along with surface runoff, into natural waters, including shallow and deep circulation groundwater. Although the observed concentrations of antibiotics are often not harmful to humans, their sub-lethal concentrations contribute to increasing bacterial resistance to these substances and alter the microbial community's composition. It has been demonstrated that an inflow of a variety of contaminants into water resources, including antimicrobial agents and/or allochthonous microorganisms, is a worldwide problem. [...] For further reading, please follow the link to the special issue website at:
https://www.mdpi.com/journal/water/special_issues/antibiotics_wastewater

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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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