Special Issue

Microbial Ecology of Full-Scale Wastewater Treatment Systems

Message from the Guest Editors

The rapid development of techniques for the analysis of microbial community structures enables us to better understand many microbial systems (e.g., wastewater treatment processes). These molecular biology-based methods (e.g., studies of DNA, RNA, and proteins) provide a high resolution of information compared to traditional ways of studying wastewater with microscopic examination and culture-based methods. In this way, a comprehensive understanding of qualitative, quantitative, and microorganism population dynamics will improve wastewater treatment efficiency and process stability. Moreover, various bioinformatic tools have been developed to categorize bacterial functions within the systems. The use of these techniques has opened our eyes to the complexity of our full-scale wastewater treatment systems and the variations in time and space, and between geographical regions of their microbial community.

Guest Editors

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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

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