

Special Issue

Bioreactors for Wastewater and Sludge Treatment

Message from the Guest Editor

This Special Issue focuses on the biological treatment of effluents, both of urban and industrial origin. The objectives of the wastewater treatments remain open: organic matter, control of nutrients, emerging contaminants, or other specific contaminants. Any form of presence/retention of the biomass in the reactor will be of interest: suspended culture, biofilm, hybrids, membranes, or granular. This Special Issue will also pay attention to the by-products generated in the process, basically sludge and biogas. Aerobic or anaerobic processes in sludge treatment will be analyzed to obtain an optimal product depending on their final destination. Current policies and regulations push us to manage these by-products with a circular economy approach. In this new paradigm, the application of anaerobic treatments stands out in order to reuse the digestate for agricultural or other purposes, to the detriment of other less hygienized amendments and the use of mineral fertilizers, and on the other hand, the use of biogas for energy purposes, preferably for direct use in the facilities themselves, or for other external uses.

Guest Editor

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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

Dr. Jean-Luc PROBST

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