

Special Issue

Advanced Biotechnologies for Wastewater Treatment

Message from the Guest Editors

Various methods, such as up-flow anaerobic sludge blanket reactors, bio-filters, sequential batch reactors, membrane bioreactors, etc., are in use to serve the domestic and industrial wastewater treatment, but those techniques have certain limitations (such as low removal rates, low reactor loading rates, influent shock, process instability, etc.) that prohibit wider application. Thus, advanced treatment technology are required to achieve effective eco-sustainable wastewater treatment.

Therefore, this Special Issue will aim to cover various new techniques and processes for the development of suitable wastewater treatment technologies, which support coupled bioenergy production and contribute to circular economy through resource recovery. Potential topics include, but are not limited to, the following:

- Anaerobic-aerobic systems for wastewater treatment;
- Bio-electrochemical systems for wastewater treatment and coupled bioenergy generation;
- Utilization of agro-waste material for wastewater treatment
- Novel configuration and processes for mitigation of greenhouse gas emission from wastewater.

Guest Editors

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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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