Special Issue

Advances of Anaerobic Technologies on Wastewater Treatment

Message from the Guest Editors

Conventional sewage treatment applying activated sludge processes is energy-intensive and requires great financial input, hampering widespread implementation. Scientists have worked hard to reduce the energy requirement. Despite the achieved advancements, stoichiometries of current bioprocesses determine that oxygen is always required and energy requirement originating from oxygen supply remains a condition for sewage treatment. Therefore, developing oxygen-free technologies would solve the high energy demand of current sewage treatment bioprocesses. Anaerobic digestion can convert energy embedded in organic matter to the form that human can utilize and thereby is a promising technology for wastewater treatment. Although it is an ancient technology, it gradually attracts much more attention than ever before. Many questions should be answered by implementing anaerobic technologies such as: whether Anaerobic digestion can be helpful in greenhouse gas emission and results in a better resource recovery? This special issue will try to summarize the most important advances in wastewater treatment by anaerobic approaches.

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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