Special Issue

Nitrogen Removal in Wastewater Treatment Process: New Insight and Future

Message from the Guest Editors

The removal of nitrogen and nitrogen compounds from wastewater is one of the crucial processes in wastewater treatment plants (WWTP). Biological methods of nitrogen removal via nitrification and denitrification from wastewater have been well established over the past few decades; nevertheless, with the recent developments in technology, nitrogen removal via wastewater has faced new challenges and opportunities. For example, to reduce the need for energy input and carbon sources, new processes such as simultaneous nitrification and denitrification, anammox, and sulfur-based autotrophic denitrification have been developed. In addition, new ammonium oxidation processes such as ammonium oxidation coupled with iron reduction (Feammox) and complete ammonia oxidation (Comammox) have been discovered in WWTP. These innovations and discoveries have further spurred research into secondary pollution during nitrogen removal and insight into nitrogen recovery from the wastewater treatment process. This growing interest in the treatment and application of wastewater treatment has drawn together many researchers of various backgrounds and perspectives.

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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.

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