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Nitrogen Cycling in the Aquatic Ecosystem

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Deadline for manuscript
submissions:

closed (30 June 2023)

Message from the Guest Editors

Nitrogen plays important roles in the aquatic ecosystems. Nitrification, denitrification, and anammox are the three critical processes during nitrogen cycling, especially in man-made facilities, such as wastewater treatment plants. Therefore, nitrate management is very important due to its contribution to environmental eutrophication, as well as its explicit long-term stress effect on cultured species during intensive fish farming. This Special Issue aims to invite contributions that explore the mitigation, transformation of nitrogen, and the mechanism of nitrate-removal pathways in the aquatic ecosystem.

Example topics of interest include, but are not limited to: microbial-based technology for nitrate-removal from wastewater; bacteria isolation for nitrification and denitrification under aerobic or anoxic conditions; nitrate-removal based on biodegradable polymers; and effect of emerging pollutants (such as antibiotics, microplastics) on nitrogen cycling.



mdpi.com/si/98893

Special Issue



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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.

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Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (*Water Science and Technology*)

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