

Special Issue

Nitrogen Cycling in the Aquatic Ecosystem

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.

Guest Editors

Prof. Dr. Yunjie Ruan

Institute of Agricultural Bio-Environmental Engineering, College of Bio-Systems Engineering and Food Science/The Rural Development Academy, Zhejiang University, Hangzhou 310058, China

Prof. Dr. Wenbing Li

School of Life and Environment, Hangzhou Normal University, Hangzhou 311121, China

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Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

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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

Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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