Special Issue

Treatment of Maricultural Wastewater

Message from the Guest Editors

The high concentrations of nutrients (e.g., nitrogen and phosphorus), antibiotic residues, organic pollutants, and pathogenic microorganisms in the effluent pose potential threats to coastal ecosystems and human health, making aquaculture wastewater treatment a pivotal challenge for environmental protection and sustainable development. The valorization of nitrogen and phosphorus from wastewater into agricultural or energy products aligns with the principle of "waste-to-resource conversion". This Special Issue will focus on technological innovation, mechanistic exploration, and engineering practices to provide scientific support for the green and low-carbon transition of global mariculture, fostering the coordinated development of aquaculture and environmental conservation. Scope of topics includes the following: 1. emerging treatment technologies; 2. pollutant behavior and ecological impacts; and 3. resource recovery and circular utilization. This Special Issue encourages interdisciplinary research, particularly studies addressing the scalability and environmental benefits of emerging technologies.

Guest Editors

Prof. Dr. Xiaoyan Fan

Dr. Yuankun Liu

Dr. Zedong Lu

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

mdpi.com/journal/water

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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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