

Special Issue

Water Quality Management in Aquaculture Systems

Message from the Guest Editors

Recently, there has been growing recognition for the urgent need for more sustainable water quality management in aquaculture systems. As the fastest-growing food production sector, aquaculture must intensify production while minimizing environmental footprints, and water quality lies at the heart of this challenge. Emerging strategies stem from the understanding that maintaining optimal conditions requires integrated biological, chemical, and physical processes, offering co-benefits such as reduced water consumption, lower disease incidence, and improved waste valorization.

This Special Issue explores how innovative water quality management can drive sustainable aquaculture development. It covers a range of solutions, from recirculating aquaculture systems, biofloc technology, and integrated multi-trophic aquaculture to advanced real-time sensors, artificial intelligence, and nature-based treatment units like constructed wetlands and biofilters. [...]

For further reading:

https://www.mdpi.com/journal/water/special_issues/35L8FK5F6H

Guest Editors

Dr. Changwei Li
Dr. Wenchang Liu
Dr. Gang Liu

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

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About the Journal

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
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