

Special Issue

Advanced Aquaculture Water Quality Management Research

Message from the Guest Editor

This Special Issue aims to provide a platform for cutting-edge research and innovative applications in the field of, e.g., sustainable aquaculture, water treatment, AI in aquaculture, etc. Rapid technological advancements, growing environmental concerns, and the demand for resource-efficient systems have highlighted the need for novel approaches, integrated strategies, and interdisciplinary collaboration. The Special Issue invites contributions that address fundamental principles, practical implementations, and emerging trends that advance both scientific understanding and real-world applications. We welcome original research articles, reviews, case studies, and technical notes that cover (but are not limited to) the following topics:

- Aquatic water quality management;
- Recirculating aquaculture system design and optimization;
- Artificial intelligence, machine learning, and data-driven modeling;
- Advanced materials, devices, and technologies;
- Energy efficiency and sustainable practices;
- Challenges, limitations, and future research directions.

Guest Editor

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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

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