Special Issue

Sustainable Treatment for Emerging Contaminations in Offshore Aquaculture Tailwater

Message from the Guest Editors

Offshore aquaculture's explosive growth has improved the public food chain while also unavoidably adding emerging contaminations (ECs) to the environment. These include unmetabolized antibiotics, antifoulants, disinfectants, and micro(nano)plastic, which originate from feed, therapeutics, and biocides. The release of these ECs into adjacent ecosystems poses a substantial threat, contributing to the development of antimicrobial resistance, causing toxicological effects on nontarget aquatic organisms, and disrupting local ecological balance. Addressing the issues of ECs requires the effective control of contaminants discharged into coastal marine ecosystems. The development of advanced oxidation/reduction processes (AOPs/ARPs) for water purification presents a promising solution to mitigate ECs in coastal marine ecosystems. In recent years, numerous reports have focused on designing novel AOPs/ARPs to achieve high-efficiency pollutant removal at low costs. However, current technologies still face limitations in terms of treating diverse pollutants, and their decontamination efficiency and cost-effectiveness require further improvement.

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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

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