Special Issue

Eutrophication and Harmful Algae in Aquatic Ecosystems

Message from the Guest Editors

Harmful algae are increasing caused by nutrient pollution, warming, and other human-related activities, but there is still confusion around their chronic impacts and the complexities of their responses to multiple stressors. “Eutrophication and harmful algae” has been the focus of decades of research and is increasingly regarded as a critically important topic in aquatic science. Recent studies have strengthened basic information. Improved approaches and models to estimate nutrient loads, for example, are beginning to yield more a accurate assessment of chronic impacts. However, many challenges remain, especially surrounding how the synergistic effects of warming, acidification, hypoxia, floods, drought, etc. This Special Issue aims to highlight some recent advances. Coverage includes new insights on the ecology of harmful algae and their basic impacts on aquatic ecosystems, the synergisms in their toxin effects, models that yield more reliable predictions, and the “science/policy border” in efforts to protect aquatic ecosystems from degradation due to nutrient pollution and harmful algae.
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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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