

Special Issue

Ecosystem-Based Understanding and Management of Eutrophication

Message from the Guest Editors

Anthropogenic eutrophication leads to anoxia and excessive algal and plant biomass, including harmful algal blooms, and is one of the most common water quality problems in aquatic ecosystems worldwide. Important consequences include loss of ecosystem services and loss of biodiversity. Nutrients derived from human activity are key in driving it. However, an array of other human causes such as overfishing, land use changes, habitat alteration, and damming and other hydrological manipulations also may be important in many instances. Increasingly, protracted internal loading of P, introduced species, and climate change are the focus of research into the cause of degradation and loss of ecosystem services, especially when reductions in loading fail to cause or sustain the expected recovery of damaged ecosystems. In this Special Issue, we wish to promote a holistic, ecosystem-based understanding and management of eutrophication and associated effects on water quality. We encourage contributions discussing results from field studies, experiments, models, and theoretical analyses that can provide insight into the management of this threat to humans and the biosphere in which they live.

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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

Dr. Jean-Luc PROBST

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