

Special Issue

Water-Quality Modeling

Message from the Guest Editors

The field of surface water-quality model started in 1925, with the classic Streeter and Phelps model to simulate dissolved oxygen on the Ohio River. In the almost 100 years since that seminal contribution, the field has expanded to encompass a myriad of pollutants beyond oxygen-demanding wastes. These include plant nutrients, toxic organic compounds, heavy metals, pathogens, as well as emerging contaminants. Further, models have been developed and applied for all of the major natural waters and their sediments. This Special Issue brings together emerging approaches, kinetic and computational challenges, and research frontiers related to water-quality modeling. Along with addressing new areas, approaches, and emerging pollutants, the Issue is also designed to explore the coupling and integration of water-quality modeling with other facets of the natural aqueous environment, as well as interfaces with socioeconomic models and systems for decision support. In particular, water quality model frameworks addressing future problems such as climate change and mega-urbanization would be of particular interest.

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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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