

Special Issue

Monitoring, Modelling and Management of Water Quality

Message from the Guest Editor

Different types of pressures, such as nutrients, micropollutants, microbes, nanoparticles, microplastics or antibiotic-resistant gens, endanger the quality of water bodies. Evidence-based pollution control needs to build on the three basic elements of water governance: Monitoring, modeling, and management (m3).

Monitoring sets the empirical basis by providing space- and time-dependent information on substance concentrations and providing necessary information for the calibration and validation of models. Modeling needs proper system understanding and helps to derive information for times and locations where no monitoring is done or possible. Management relies on this information and translates it in a socioeconomic context into specific plans for implementation.

For this Special Issue, authors are invited to publish advances in monitoring, modeling, and management of water quality. Contributions are welcomed that either address new concepts and methods of water quality monitoring, new developments of modeling tools or innovative approaches of exploiting those monitoring and modeling strategies for effective water quality management.

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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