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Methods for Assessing Water Quality and Its Impacts on Ecological Status in Reservoirs

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Message from the Guest Editor

The Water Framework Directive (WFD) is the key European legislation in terms of water policy and protection, which has been in place since 2000. While the WFD assessment scheme is conceptually and technically well developed for rivers, water quality evaluation in reservoirs lacks depth and an adequate toolbox for predictive or retrospective analyses. In part, this is due to their artificial nature, which led to the creation of the concept of “ecological potential” instead of the WFD paradigm of “ecological status”. Notwithstanding, reservoirs are among the most important freshwater ecosystems for human needs and are therefore under enormous pressure. Particularly in recent decades, this pressure has been heightened by climate change, including extreme events such as droughts and floods. Directly or indirectly, this has also influenced the spread of emergent chemical pollutants or biotic agents. Increased human pressure and climate change will enhance or trigger future water availability crises and conflicts over the use of water...

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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.

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