Special Issue

New Challenges: Modelling the Water Quality of Surface Waters with Ice Cover

Message from the Guest Editor

Modelling the quality of surface waters under ice-covered conditions is an understudied topic of research, but is gaining momentum due to the realisation within the scientific community of its importance in the understanding of the year-round ecological functioning of aquatic ecosystems. As recent studies have shown, assuming the “dormancy” of these under-ice ecosystems compared to open-water conditions, is a limitation to the holistic view of how these ecosystems function. For instance, the water-quality conditions during winter can have a marked effect on the successive spring and summer succession of phytoplankton species and algal–nutrient dynamics. Also, within the scope of the future climate, changing ice phenologies will impact surface water quality and even exacerbate changes in all-year dynamics. Modelling helps us to better understand these inter-seasonal influences and predict the impacts of future changes in our environment. It is against this backdrop that I invite you to submit your paper to this Special Issue, to promote scientific awareness of this important topic.

Guest Editor

Prof. Dr. Karl-Erich Lindenschmidt

Global Institute for Water Security, School of Environment and Sustainability, University of Saskatchewan, Saskatoon, SK S7N 3H5, Canada

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Water
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
water@mdpi.com

mdpi.com/journal/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.

Editor-in-Chief

Dr. Jean-Luc PROBST
Centre de Recherche sur la Biodiversité l'Environnement (CRBE) UMR CNRS/UPS/INPT/IRD, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, Toulouse, France

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