Special Issue

Subsurface Hydrothermal Modeling in the Arctic

Message from the Guest Editor

Arctic landscapes are undergoing constant changes due to accelerated warming in the high-latitudes. These changes include geomorphological processes linked to the degradation of permafrost, shifts in vegetation communities, and disturbances such as wildfires and floods. These disturbances have direct impacts on communities and ecosystems, triggering severe and long-lasting consequences on the subsurface permafrost and hydrology, land surface changes, and extensive ground ice loss. Associated shifts in hydrological conditions will have a substantial impact on the future evolution of the Arctic ecosystems. In this special issue, we invite studies focused on surface and subsurface hydrology and its effect on ecosystems, communities, and permafrost. These studies should include but not limited to observations (in-situ and remote sensing) and modeling of the hydrological impacts on the Arctic ecosystems and landscapes.

Guest Editor

Dr. Elchin E. Jafarov
Los Alamos National Laboratory, Los Alamos, NM 87545, USA

Deadline for manuscript submissions

closed (31 December 2021)

Water

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 6.0

mdpi.com/si/49528

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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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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