



water



an Open Access Journal by MDPI

On the Concerted Adaptation of Soil, Water and Vegetation to Water Management and Climate Change

Guest Editors:

Prof. Dr. ir. Jan-Philip M. Witte

KWR Watercycle Research Institute, Nieuwegein, Netherlands; System Ecology Group, Faculty of Science, Vrije Universiteit Amsterdam, Amsterdam, Netherlands

Dr. ir. Ruud P. Bartholomeus

KWR Watercycle Research Institute, Nieuwegein, the Netherlands; Soil Physics and Land Management, Wageningen University, Wageningen, the Netherlands

Deadline for manuscript submissions:

closed (31 January 2020)

Message from the Guest Editors

In rural areas, available freshwater resources are increasingly under pressure due to the growing competition of land use functions for available water. Both natural vegetation and agricultural crops depend largely on soil moisture conditions in the root zone. Climate change leads to more prolonged drought periods that alternate with more intensive rainfall events. With unaltered water management practices, this may result in a severe reduction of crop yields and plant biodiversity. These risks can partly be avoided by adapting the groundwater and surface water regime. This Special Issue is seeking contributions focussing on i) a better understanding of interacting processes in the groundwater–soil–plant–atmosphere system, both of natural vegetation and crops, ii) effects of climate change on the future freshwater availability for nature and agriculture, iii) adaptive measures to anticipate and adapt to limited freshwater availability, and iv) integrated approaches to optimize freshwater availability for all land use functions.



mdpi.com/si/23824

Special Issue



water



an Open Access Journal by MDPI

Editor-in-Chief

Dr. Jean-Luc PROBST

Laboratory of Functional Ecology and Environment, Centre National de la Recherche Scientifique (CNRS), University of Toulouse, Campus ENSAT, Auzeville Tolosane, France

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.

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), Ei Compendex, GEOBASE, GeoRef, PubAg, AGRIS, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank: JCR - Q2 (*Water Resources*) / CiteScore - Q1 (Water Science and Technology)

Contact Us

Water Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/water
water@mdpi.com
[X@Water_MDPI](https://twitter.com/Water_MDPI)