



water

an Open Access Journal by MDPI



Ecohydrologic Feedbacks between Vegetation, Soil, and Climate

Guest Editors:

Dr. C. Jason Williams

USDA Agricultural Research Service, Southwest Watershed Research Center, Tucson, AZ 85719, USA

Assit. Prof. Kossi Nouwakpo

College of Agriculture, Biotechnology, and Natural Resources, University of Nevada-Reno, Reno, NV, 89557, USA

Deadline for manuscript submissions:

closed (1 May 2020)

Message from the Guest Editors

Patchy attributes of water-limited lands provide unique landscapes for studying the dynamic interaction of structural and functional connectivity that governs hillslope hydrologic and erosion processes. Isolated bare patches are sources for runoff and soil detachment by rainsplash and sheetflow. Vegetated patches and ground cover intercept rainfall and overland flow, promote infiltration and sediment and nutrient retention, and protect the soil surface from raindrops and detachment by flow. Plant community degradation often increases runoff and soil loss through the fragmentation of the vegetation and ground cover patch-structure. Such increases in structural and functional connectivity often propagate long-term site degradation and are difficult to reverse. Disturbances can potentially serve as ecohydrologic threshold reversal mechanisms by which the vegetation structure and ecohydrologic function are reset through ensuing plant community and ecohydrologic dynamics. We seek papers that examine key ecohydrologic feedbacks between vegetation, soil, and climate and are particularly interested in how such relationships are affected by disturbances, immediate or transitional.



mdpi.com/si/18712

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)