

Special Issue

Identification and Quantification of Water Flow and Solute Transport Processes in Agricultural, Natural and Artificial Hillslopes

Message from the Guest Editors

Hillslope landscapes present challenges for estimating the dynamics of vadose zone processes due to the variety of transport-related processes that are present, such as surface runoff; vertical flow; erosion; subsurface preferential flow; non-linear chemical behavior affected by soil structure, slope, and layering; evapotranspiration; slope stability. These processes are present in agricultural, natural or human-affected hillslopes, and the various slope shapes have a major impact on these processes. The quantification of hillslope processes is still very challenging. Complex interactions result in nonuniform water flow and solute transport processes. It cannot be easily assessed, even with sophisticated analytical or numerical methods. We would like to invite researchers from various disciplines (agronomy, geology and mining, environmental engineering, hydrology, biogeochemistry) to submit their research or review articles focusing on the challenge of water flow and solute transport quantification in various hillslope landforms in the soil–plant–atmosphere continuum. https://www.mdpi.com/journal/water/special_issues/646VO621IY

Guest Editors

Dr. Vilim Filipović

1. Department of Soil Amelioration, Faculty of Agriculture, University of Zagreb, 10000 Zagreb, Croatia
2. Future Regions Research Centre, Geotechnical and Hydrogeological Engineering Research Group, Federation University, Gippsland, VIC 3841, Australia

Prof. Dr. Thomas Baumgartl

Future Regions Research Centre, Geotechnical and Hydrogeological Engineering Research Group, Federation University, Gippsland, VIC 3841, Australia

Deadline for manuscript submissions

closed (31 May 2023)



Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/si/131703](https://www.mdpi.com/si/131703)

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

[mdpi.com/journal/
water](https://www.mdpi.com/journal/water)





Water

an Open Access Journal
by MDPI

Impact Factor 3.0
CiteScore 6.0



[mdpi.com/journal/
water](https://mdpi.com/journal/water)



About the Journal

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

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 (Aquatic Science)