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

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Deadline for manuscript submissions:
closed (31 May 2023)

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.

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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.

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