

Special Issue

Data Assimilation and Modeling for Sustainable Soil–Water Systems

Message from the Guest Editors

We welcome contributions on digital twins for farms and irrigation districts, uncertainty quantification in soil water models, tracer-aided modeling to partition evaporation and transpiration, agent-based models that simulate stakeholder decision-making, and predict-then-verify frameworks for adaptive management. This Special Issue encourages interdisciplinary submissions that bridge hydrology, soil science, agronomy, and socio-environmental systems, and will highlight case studies that demonstrate the value of integrated modeling for resilience, drought adaptation, and policy evaluation.

Guest Editors

Prof. Dr. Ying Zhao

Dr. Jie Xue

Dr. Ali Mokhtar

Dr. Jingyi Huang

Dr. Yao Hu

Deadline for manuscript submissions

closed (30 April 2026)



Water

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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.

Editor-in-Chief

Dr. Jean-Luc PROBST

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