

Special Issue

Evapotranspiration Measurements and Modeling

Message from the Guest Editor

A major component of the water balance in agricultural and natural vegetation systems is evapotranspiration (ET), which comprises transport of water vapor to the atmosphere through soil evaporation and plant transpiration. Understanding ET is vital for the high water use efficiency of irrigated agriculture, the efficient management of natural ecosystems like forests, and as a boundary condition for atmospheric or soil water modeling. This Special Issue welcomes articles dedicated to all aspects of evapotranspiration measurements and modeling in agricultural and natural systems. Articles on modeling may focus on but are not limited to mechanistic models like Penman–Monteith and its derivatives, machine learning algorithms like artificial neural networks, and other theoretical or numerical modeling approaches. Papers on field studies should include ET measurements and estimations using methods such as eddy covariance, scintillometer, Bowen ratio, flux-gradient, surface renewal, remote sensing, or other monitoring approaches.

Guest Editor

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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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