

Special Issue

Subsurface Drainage and Water-Saving Irrigation in Sustainable Agriculture

Message from the Guest Editor

To control salinity in the root zone for better crop growth, more water than required to meet crop evapotranspiration must be applied to leach excessive soluble salts out. Such an intentional “over-irrigation” is called leaching, which is the primary measure and is widely practiced as the most effective method. By carrying out leaching, salinity in the root zone can be controlled at least tentatively, but drainage below the root zone is inevitable and if subsurface drainage or groundwater discharge of the land is poor, the ground water table will rise and salts may return to the soil surface by rapid and continuous evaporation from the wet soil surface. Herein, we call for manuscripts for reporting such drainage problems or evaluating the effect of new subsurface drainage systems (SDS). Reducing unnecessary drainage caused by over-irrigation or non-uniformity in irrigation would be one of the solutions which may reduce the cost for installing or maintaining the SDS. Therefore, articles for new methods to enhance uniformity in application or minimize over-irrigation by precisely meeting crop evapotranspiration demands and leaching requirements are also welcome.

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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