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Sustainable Water Management in Agriculture under Global Change

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Message from the Guest Editors

Water is one of the most critical resources for sustainable agricultural development worldwide and thus plays an important role in global food security. According to FAO, irrigated agriculture represents about 70% of the total water withdrawals and provides 40% of the global food production. Socio-economic pressures and climate change impose restrictions to water allocated to agriculture. Growing competition among different water uses, together with increased water vulnerability and scarcity because of climate change, will reduce water availability in agriculture. Nevertheless, global food demand is projected to increase until mid-century, so that improved water management is a priority to meet water and food security. Moving towards sustainable water management in agriculture involves not only adoption of technological improvements but also changes in the social and institutional frameworks. Efforts are needed to assess water-food interlinkages, support the design of synergetic policy interventions and promote water reuse and transition to a circular economy.



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Special Issue



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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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