



Sustainable Irrigation Strategies for Improving Crop Water Productivity

Guest Editor:

Dr. Koffi Djaman

Department of Plant and
Environmental Science, New
Mexico State University, Las
Cruces, NM 88003, USA

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Message from the Guest Editor

The world's population is growing with an increasing demand for food and fiber. However, freshwater resources for agriculture are decreasing due to climate change, with more pronounced extreme events like floods and drought. Improper irrigation management may also cause agricultural land salinization, jeopardizing crop production mostly in some coastal river deltas. For sustainable irrigated agriculture, it is necessary to produce more food and fiber with the unit quantity of water to be able to meet food and fiber demands through precision irrigation strategies, soil moisture sensor-based irrigation scheduling, crop choice to meet the available water. This Special Issue calls for contributions, but not limited to, the following topics: irrigation strategies for improving crop water productivity while minimizing negative impact on the environment, irrigation water management and modeling, crop evapotranspiration measurement and estimation/modeling, advanced irrigation technologies for improving irrigation water use efficiency, precision irrigation, variable rate irrigation.





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Faculty of Engineering and
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Sustainability Editorial Office
MDPI, Grosspeteranlage 5
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