Special Issue

Crop Management in Water-Limited Cropping Systems

Message from the Guest Editor

The global population is projected to reach 9.1 billion by 2050, necessitating sustainable adaptations in agricultural production. Currently, irrigation accounts for approximately 70% of freshwater withdrawals worldwide. The scarcity of water resources remains the most constraining factor in arid and semi-arid regions. Furthermore, climate change exacerbates uncertainties surrounding water supplies and food production. As a result, we must confront the challenge of increasing agricultural output with a restricted amount of freshwater.

Therefore, the aim and scope of this Special Issue is to present recent advances in the development of the theory of, and technology and methods for efficient water use in agriculture. Potential submissions could be focused on the improvement of water productivity in any cropping system, from rainwater harvesting and water management in rainfed areas, to the optimization of deficit irrigation strategies on intensive cropping systems. We encourage the submission of innovative and original articles, as well as systematic reviews and short commentaries.

Guest Editor

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