

Special Issue

Response of Crop Plant Growth and Water Use to Different Irrigation Regimes

Message from the Guest Editor

Background & history of this topic: With global warming, drought has become a key constraint on agricultural productivity. The frequency of droughts will significantly increase under climate change, especially in arid/semi-arid regions. Therefore, efficient irrigation management is central to the challenge of balancing increasing drought events and water demands. Scope of the Special Issue: Recent progress has revealed the regulation of irrigation scheduling on crop growth and development, yield and composition, and developed models for simulating crop response to irrigation scheduling at different growing stages, while the mechanism and simulation of crop physiological response to different irrigation regimes challenge our current understanding. Phytohormone regulation on crop growth and yield formation under different irrigation scenarios, water and nutrient transportation from root to shoot under different irrigation regimes. What kind of papers are we soliciting: Research articles, review articles, and short communications are invited.

Guest Editor

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Deadline for manuscript submissions

closed (31 December 2023)



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Editor-in-Chief

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