Special Issue

Research on the Construction of Water-Saving Planting Systems and Supporting Technology

Message from the Guest Editor

The inefficient use of water resources has hindered the sustainable development of agriculture. Consequently, enhancing irrigation efficiency has become an imperative issue in contemporary agricultural development. Several urgent issues need to be solved: firstly, an improvement in irrigation technology, which involves the use of advanced moisture sensors and automated control systems to enable precise measurement and accurate water supply; and secondly, enhancing soil water retention capacity through measures like soil improvement and cover protection, reducing water evaporation and seepage. Additionally, research on the selection and cultivation of plant varieties is necessary to adapt to growth requirements in arid conditions. Finally, research on agricultural management techniques, including appropriate fertilization, pest and disease control, and soil conservation, should also be conducted.

In this Special Issue, we aim to present the current knowledge on reducing agricultural water usage while simultaneously ensuring crop yield and quality through the application of advanced technological approaches.

Guest Editor

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Deadline for manuscript submissions

closed (25 July 2024)

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/194818

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