Special Issue

Fertilization and Water Use in Long-Term Dryland Cotton Crop Systems

Message from the Guest Editors

Cotton is the most important fiber and oil crop species in the world. Water and fertilizer applications are approaches used to improve the yield in cotton production, especially in arid regions. Modeling studies have projected that the optimal water–nutrient application modes exploit cotton compensation and self-regulation capacities, which are beneficial for decreasing inputs, but are not conducive to obtaining the highest yields. In the future, higher energy costs and scarce nutrient resources are likely to result in rising fertilizer prices and environmental pollution. To counteract these issues, efficient water, and nutrient management strategies are needed to achieve an optimal cotton yield under arid conditions. In this Special Issue, we aim to focus on the impacts of irrigation and fertilization in terms of changes in soil water levels and nutrient content on cotton production and quality. Ingenious, improved management strategies capable of increasing productivity and improving the quality and resilience of cotton are planned to be documented.

Guest Editors

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