



The Effects of Irrigation and Fertilization Management on Cropping Systems

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Message from the Guest Editors

Recent progress has revealed the regulation of irrigation and fertilization on crop growth and development, yield, and its composition, and have developed models for simulating crop response to irrigation scheduling at different growing stages. This Special Issue aims to shed light on the complexity of irrigation and fertilization management on crop phenotype, physiological and biochemical processes, yield performance, and quality formation in different scenarios.

The research includes characterizing and quantifying responses of crop physiology and biochemistry to different irrigation regimes and fertilizer applications; the priming of irrigation and fertilization on crop physiology and yield; the regulation of phytohormones on crop growth and yield formation in different scenarios of irrigation and fertilization: from the plant to the system; water and nutrients transport from root to shoot under different regimes of irrigation and fertilization; and the performance of crop systems under different irrigation regimes and fertilizer applications.





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Message from the Editor-in-Chief

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