

Special Issue

Efficient Strategies for the Utilization of Water Resources and Nutrients and Crop Production

Message from the Guest Editors

The unscientific use of water and fertilizer resources in agriculture has led to several serious issues. This Special issue will focus on the impact of water and fertilizer managements on fertility improvements, crop yield, and carbon and nitrogen cycle processes in farmlands.

The topics of this Special Issue include, spatiotemporal migration simulation of water, fertilizer, and salt in farmlands, effects of different irrigation and fertilization modes on the farmland ecological environment, the relationship between soil water/fertilizer absorption and crop water and fertilizer absorption, the optimization of crop irrigation and fertilization systems based on crop growth process simulation, effect of cultivation modes on water and fertilizer utilization regulation of crops, impacts of climate change on agricultural production and its simulation.

We hope that this collection will provide valuable experience for the management of water and fertilizer.

Guest Editors

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Editor-in-Chief

Prof. Dr. Leslie A. Weston

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