Special Issue

Effects of Efficient Crop Cultivation Techniques on Plant Nutrition and Physiology

Message from the Guest Editor

In recent years, new developments in crop cultivation technologies have demonstrated significant effectiveness in tackling a series of thorny challenges such as food security, hidden hunger, global climate change, and various stresses.
Various farming measures such as fertilization, irrigation, and amendment regimes have been employed to enhance soil system health and resilience, including soil physico-chemical properties and the community and structure of key soil microorganisms. New analytical measures such as machine learning AI models have attracted wide attention and have been utilized to increase plant nutrition, physiology, and yield. Agricultural machinery has been rapidly developed to facilitate the monitoring of crop nutrition and physiology at various scales to ensure a high seeding rate, reduce lodging, and more. This Special Issue aims to gather cutting-edge research to facilitate a better understanding of the effects that varying novel efficient crop cultivation techniques have on plant nutrition and physiology. We welcome you to contribute to this Special Issue original research articles and related systematic reviews covering the aforementioned topics.

Guest Editor

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Deadline for manuscript submissions

30 November 2025

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/229761

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