Special Issue

Crop Nutrition Diagnosis and Efficient Production

Message from the Guest Editors

Crop nutrition monitoring and efficient production technologies are core components of modern agricultural technological progress, directly impacting agricultural productivity and sustainability. In the context of a continuously growing global population and increasingly scarce natural resources, precise and efficient agricultural production technologies are especially critical. Exploring the requirements for nutrients, such as water and nitrogen, under different production scenarios and environmental constraints, performing crop nutrition diagnostics, and advancing precision water and fertilizer management techniques based on diagnostic results are crucial for enhancing crop yields and optimizing resource use efficiency. In recent decades, the field of crop nutrition management has undergone a significant transformation from a reliance on expert experience to intelligent production modes based on the Internet of Things and information technology. This shift has not only increased the scientific and precise nature of agricultural production but has also promoted the sustainable development of the agricultural ecosystem.

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