

Special Issue

Nutrient Requirements and Fertilizer Management Strategies in Plant Cultivation

Message from the Guest Editor

Essential plant nutrients are critical for plant growth and reproduction; deficiencies in these nutrients may cause the plant growth cycle to fail. For plant cultivation, it is necessary to supplement productively through the addition of fertilizer to satisfy growth demand and increase or sustain yield. Nutrient diagnosis and soil testing, plant analysis, and crop canopy sensing as the main methods are legislation tools used for determining plant nutrition and crucial steps taken to manage the distribution of fertilizers to producers. Balanced fertilization refers to the application of plant nutrients in optimum quantities and in the right proportions through appropriate methods and at the right times for a specific crop's needs and agroclimatic conditions. The development of novel and sophisticated fertilization practices is a challenge for nutrient management. Nutrient management helps to prevent deficiencies, imbalance, or overuse of fertilizers, improve plant nutrient use efficiency, and contribute to beneficial agronomic systems and environmentally safe plant cultivation.

Guest Editor

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Plants is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

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