

Special Issue

Nutrient Efficiency in Crop Production: Physiological Strategies to Enhance Yields

Message from the Guest Editors

This Special Issue will focus on the pivotal topic of the optimization of nutrient efficiency in crop production. As the global population surges, the demand for food will escalate exponentially. In this context, bolstering nutrient efficiency in crops is becoming a cornerstone of sustainable agriculture. This Special Issue will delve into the intricate physiological mechanisms that allow crops to adeptly absorb, utilize, and recycle nutrients. Articles will spotlight innovative research, for example, studies modifying root architecture. Through the optimization of root branching and depth, crops can access nutrients from across a larger soil volume, thus enhancing uptake. The interactions between root systems and soils affect nutrient availability and cycles. Another area of interest is the role of plant hormones in nutrient signaling. This Special Issue will represent a key resource for researchers seeking to expand knowledge, agronomists aiming to refine practices, and farmers looking to boost productivity. It will pave the way for more efficient, eco-friendly crop production systems.

Guest Editors

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Message from the Editor-in-Chief

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, 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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