

Special Issue

Strategies for Nutrient Use Efficiency Improvement in Plants

Message from the Guest Editor

Nutrient elements are essential for plant growth and development. They are also the limiting factors for grain yield and quality in crops. Today, intensive high-yield agriculture is highly dependent on the addition of fertilizers, such as nitrogen, phosphorus, potassium, as well as other microelements. However, further increases in fertilizer application are unlikely to be as effective at increasing yields, as efficiency declines at higher levels of addition. Therefore, understanding how plants respond to environmental nutrient levels to identify appropriate approaches and strategies to promote root uptake, root-to-shoot translocation, and the distribution of nutrients in plants—ultimately, to improve nutrient use efficiency—is quite meaningful for crop yield and quality.

In this Special Issue, we welcome articles including original research papers, perspectives, opinions, and reviews that focus on approaches and strategies for nutrient use efficiency improvement in plants.

Guest Editor

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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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