# **Special Issue**

# Molecular Mechanism of Plant Mineral Nutrient

## Message from the Guest Editors

Plant mineral nutrition plays an important role in the health of plants and humans. Over the past few decades, the study of plant mineral nutrition has transformed from a predominantly applied field to a fundamental dissection of molecular mechanisms. This Special Issue will delve into the cutting-edge research and revelations that unveil the intricate molecular mechanisms of nutrient sensing, uptake, transport, and homeostasis in plants. It unravels the complex system of ion transporters and the regulatory networks orchestrating nutrient-responsive gene expression, spanning local and systemic signaling levels. Our collection of articles offers a comprehensive overview of this crucial aspect of plant biology. These insights have significant implications for sustainable agriculture, global food security, and our comprehension of how plants adapt to diverse environments. The knowledge generated can pave the way for strategies to develop crops with improved mineral use efficiency, thus mitigating fertilizer pollution of underground water systems through runoff. Join us in exploring the frontier of plant mineral nutrition for a greener, more nourished world.

### **Guest Editors**

Dr. Cankui Zhang

Dr. Jing Huang

Dr. Chao Xia

### Deadline for manuscript submissions

closed (20 January 2025)



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# **About the Journal**

## 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.

#### Editor-in-Chief

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