Special Issue

Mineral Nutrition and Plant Abiotic Stress Resistance

Message from the Guest Editors

Along with global warming, many abiotic stress factors that threaten the sustainability of agriculture and ecosystems are seemingly intensifying. To survive time-bound or chronic unfavourable environmental changes, plants must possess some resistance and tolerance mechanisms at the cellular, organ, and whole organism levels. Their proper functioning largely depends on adequate mineral nutrition. It is well known that essential nutrients play specific and crucial roles in normal plant growth, development, and stress resistance. Sometimes, an elevated concentration of nutrients in the substrate/plant tissues positively modifies plants' responses to stress and simultaneously increases their nutritional value. Similarly, some beneficial elements (especially Si and Se) used at low concentrations can positively influence plant metabolism and contribute to increased resistance to detrimental environmental changes. This Special Issue aims to highlight new developments in our understanding of how mineral nutrition and the mineral status of plants contribute to their resistance to different environmental stresses.

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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.

Editor-in-Chief

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