Special Issue

Impact of Abiotic Stresses on Plant-Soil Nutrient Status, Metabolism, Growth, and Ecosystem Functions

Message from the Guest Editors

Water and nutrients are essential factors for sustaining plant growth. Global climatic change is predicted to alter precipitation patterns, potentially increasing the risk of extreme drought events during this century. Drought stress can depress plant metabolism, growth, development, and distribution by affecting uptake, transport, and nutrient partitioning through decreased mineralization rates and diffusion of soil nutrients to root surface. A better understanding of plants' physiological and biochemical responses and identifying the dynamics of nutrients under drought is essential to predict drought effects on ecosystem processes. This Special Issue will highlight physiobiochemical responses of ecologically and economically important plant species, and plant–soil nutrient status under abiotic stresses, not only under drought but also salinity and temperature, which could help in designing proper management strategies for improving ecosystem functioning and productivity in the face of climate change.

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.

Editor-in-Chief

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