

Special Issue

Role of Mineral Nutrition in Alleviation of Abiotic Stress in Crops

Message from the Guest Editors

Agriculture currently faces the following two major challenges: feeding a growing world population while dealing with worsening environmental conditions. Climate change has led to more frequent and severe droughts, as well as extreme temperature fluctuations. Meanwhile, rapid industrial development has contributed to issues like soil and water salinity due to improper waste disposal, as well as heavy metal toxicity in agricultural areas due to industrial pollutants. All these abiotic stressors pose a significant threat to crop production. This Special Issue explores the critical relationship between mineral nutrition and abiotic stress tolerance in crops. Understanding how essential nutrients regulate plant responses to adverse conditions is crucial as environmental stresses intensify. This Issue focuses on mechanisms by which mineral nutrients enhance crop resistance to abiotic stress. The scope includes research on the physiological responses, molecular mechanisms, field-scale experiments, biofortification, and soil–mineral relationships related to various abiotic stresses.

Guest Editors

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