

Special Issue

The Role of Mineral Elements in the Crop Growth and Production

Message from the Guest Editors

Mineral elements, including macro- and micronutrients, have multiple biological functions in the whole life cycle of crops. The growth, production, and quality of crops and their fruits are indispensable from mineral elements, especially the balance in their bioavailable quantities in soils. In recent years, sustainable agriculture has become an important issue in realizing the UN's Sustainable Development Goals. Keeping the balance of mineral elements and increasing the bioavailability of mineral elements such as phosphorus (P) and trace elements in agricultural production will be pivotal for sustainable agriculture. This Special Issue is therefore inviting contributions of articles for publication, focusing on (1) how mineral elements (macro nutrient: S, Ca, Mg, K, P, N; trace elements: Fe, Mn, Cu, Zn, Se, Mo, Ni, Se; beneficial element: Si) affect the growth, production, and quality of crops; (2) bioavailability and dynamics of chemical and microbial processes of mineral elements in the crop rhizosphere; and (3) interaction between mineral elements in soil–crop systems from microcosm to ecosystem scales.

Guest Editors

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Deadline for manuscript submissions

closed (15 June 2023)



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