

Special Issue

Plant Nutrient Dynamics: From Soil to Harvest and Beyond

Message from the Guest Editors

This Special Issue encompasses the intricate journey of essential nutrients from their availability in the soil environment through their uptake by roots, subsequent translocation to various plant organs, and their accumulation in tissues, including the edible parts. This Special Issue explores how environmental factors (such as soil properties, climate, and the presence of abiotic and biotic stresses) influence this journey. This Special Issue highlights recent advances in nutrient absorption, transport, and accumulation in plant organs, specifically focusing on physiological, molecular, and ecological perspectives and strategies for enhancing crop nutrition under stress or low-input conditions. This Special Issue highlights cutting-edge research that drives innovation in plant nutrition science and its applications in food security and environmental sustainability. We welcome original research and reviews on nutrient uptake mechanisms, transport, regulatory networks, rhizosphere processes, root architecture, and sustainable agriculture applications.

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