

Special Issue

Improvement of Legume Crop Production: Fertilizers, Irrigation, Microorganisms

Message from the Guest Editors

Legume crops are vital for global food security and sustainable agriculture due to their high protein content and symbiotic nitrogen fixation abilities. Their productivity needs to be enhanced to meet the demands of a growing population under increasingly variable climatic conditions. This Special Issue focuses on the integration of fertilizers, irrigation strategies, and beneficial microorganisms to improve legume crop yields and resilience. We aim to highlight innovative approaches, from precision nutrient management and water-use efficiency to the application of plant growth-promoting rhizobacteria and mycorrhizal fungi. Cutting-edge research exploring the interactions between these factors and their impact on soil health, crop physiology, and yield optimization is particularly welcome. We invite original research articles, reviews, and case studies that advance our understanding of this subject and offer practical solutions for legume production. Contributions from multi-disciplinary perspectives and diverse agroecological zones are strongly encouraged. We look forward to your valuable contributions to this important field.

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