Special Issue

Integrated Management of Maize–Legume Cropping Systems

Message from the Guest Editors

Maize–soybean rotation systems are widely adopted to optimize resource use efficiency, mitigate pest and disease pressures, and enhance crop yields. However, significant knowledge gaps persist regarding the long-term impacts of nitrogen (N) fertilization on crop productivity and soil health within these systems, particularly in relation to soil microbial activity and nutrient cycling. This Special Issue seeks cutting-edge research and innovative approaches that shed light on the effects of N fertilization levels on maize yields, soil N dynamics, and microbial activity, especially for legume crops like soybean. We are particularly interested in studies that explore diverse cropping systems, including maize–legume intercropping and conservation rotations, and those that integrate advanced technologies such as remote sensing and precision agriculture tools for real-time monitoring and management. This Special Issue aims to advance our understanding of nutrient dynamics in agricultural systems and support the development of practices that contribute to resilient, sustainable farming and informed policy-making.

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Deadline for manuscript submissions

30 September 2025

Agronomy

an Open Access Journal by MDPI

Impact Factor 3.4
CiteScore 6.7

mdpi.com/si/219888

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