# **Special Issue**

## Exploring Mechanisms and Technologies for Enhancing Nitrogen Efficiency in Maize Production

## Message from the Guest Editors

Maize is one of the most widely distributed and important cereal crops in the world, the production of which consumes around 50 million metric tons of nitrogen fertilizer every year. Meanwhile, low nitrogen use efficiency and high soil nitrogen surplus increase environmental risks and reduce the income of agricultural operators. Nitrogen efficiency in maize production involves fertilizer management strategy, plant growth and development, nitrogen fate in crop-soil systems, and nitrogen nutrition physiology. This Special Issue aims to explore the physiological mechanisms underlying the nitrogen efficiency of maize production, and create high yield and high efficient technologies, which will focus on the following: Physiological mechanisms underlying nitrogen efficiency of maize production:

Nitrogen fertilizer management and soil production; Nitrogen fate within crop-soil systems;

Agronomic practices and technologies enhancing nitrogen efficiency. We welcome the submissions of research articles, review articles, short communications, case studies, etc.

## **Guest Editors**

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## Deadline for manuscript submissions

30 September 2025



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## Editor-in-Chief

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