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# **Plant Physiology and Nitrogen Use Efficiency**

Guest Editor:

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Deadline for manuscript submissions:

closed (8 December 2022)

## Message from the Guest Editor

Dear Colleagues,

Nitrogen (N) fertilizer represents a significant cost for the grower and has environmental impacts through nitrate leaching and N2O (a greenhouse gas) emissions. Nitrogenuse efficiency (NUE) can be defined as the grain dry matter yield divided by the supply of available nitrogen (N) from the soil and fertilizer, and with many countries pushing to reach a net zero target, reducing N inputs is one of the ways to achieve this goal. Nitrogen affects plant growth and at the cellular. biochemical. development physiological levels, and its deficiency results in lower yield and productivity. An understanding is required about which traits determine yield under low N conditions in order to increase NUE and reduce the use of N fertilizer, as well as using novel approaches to rapidly measure Nefficient traits. This Special Issue of *Plants* will focus on the new phenotypic and genetic traits being investigated to study nitrogen use efficiency in plants.













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## **Editor-in-Chief**

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## **Message from the Editor-in-Chief**

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