# **Special Issue**

### Plant Physiology and Nitrogen Use Efficiency

### Message from the Guest Editor

Nitrogen (N) fertilizer represents a significant cost for the grower and has environmental impacts through nitrate leaching and N2O (a greenhouse gas) emissions. Nitrogen-use efficiency (NUE) can be defined as the arain 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 development at the cellular, biochemical, and 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 N-efficient traits. This Special Issue of *Plants* will focus on the new phenotypic and genetic traits being investigated to study nitrogen use efficiency in plants.

### Guest Editor

Dr. Oorbessy Gaju Lincoln Institute for Agri-Food and Technology, University of Lincoln, Lincoln LN2 2LG, UK

#### Deadline for manuscript submissions

closed (8 December 2022)



## **Plants**

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



mdpi.com/si/84511

Plants Editorial Office MDPI, Grosspeteranlage 5 4052 Basel, Switzerland Tel: +41 61 683 77 34 plants@mdpi.com

mdpi.com/journal/

plants





## Plants

an Open Access Journal by MDPI

Impact Factor 4.1 CiteScore 7.6 Indexed in PubMed



plants



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and community.

### Editor-in-Chief

Prof. Dr. Dilantha Fernando Department of Plant Science, University of Manitoba, Winnipeg, MB R3T 2N2, Canada

### Author Benefits

### **Open Access:**

free for readers, with article processing charges (APC) paid by authors or their institutions.

### **High Visibility:**

indexed within Scopus, SCIE (Web of Science), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)