

Special Issue

Role of Nitrogen in Plant Growth and Production

Message from the Guest Editor

Nitrogen is a core component of a vast range of biological molecules, and its availability is a fundamental factor in the growth and development of plants. At the individual plant level, nitrogen has a wide range of effects on plant growth and shape, while photosynthetic rates strongly correlate with tissue N concentrations, largely attributable to the need for large amounts of the CO₂-fixing enzyme Rubisco. At the ecological level, N availability limits ecosystem productivity in most natural and semi-natural ecosystems worldwide and has profound implications for ecological interactions both within and between trophic levels.

This Special Issue welcomes contributions focused on a broad range of topics related to the relationship between plants and nitrogen. These may range from the molecular to the agronomic and ecological levels and may cover any topic related to N capture, uptake, or its relation to plant growth and productivity.

Guest Editor

Dr. Louis Irving

School of Life and Environmental Sciences, University of Tsukuba,
Tsukuba 305-8577, Japan

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

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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 commentaries on topics of interest to the plant research community.

Editor-in-Chief

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

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