

Special Issue

Soil Ecology and Nutrients' Cycling in Crops and Fruits

Message from the Guest Editors

Soil ecology and nutrient cycling are important for plant stability maintenance and sustainable ecology. This Special Issue focuses on the actual transport of soil nutrients and agronomic responses of crops. Many factors affect the availability of soil nutrients to plants, including fertilization rates, different yield scenarios, nutrient dosages of soil types and soil chemical properties, yield potential, and climate, among the others. In crops and fruits, some aspects of nutrient cycling are still poorly understood. Techniques to improve efficiency of nutrient-efficient cultivation show considerable promise. With a better understanding of soil ecology and how nutrients cycle through plants, it is possible to increase in a sustainable manner both yields and crops' quality, while preserving the ecosystem services provided by agricultural soils. The innovations in this Special Issue are the recycling of agricultural and plant by-products or wastes, recycling of energy and nutrients, and the improvement of soil properties.

Guest Editors

Dr. Hirzel Juan

Instituto de Investigaciones Agropecuarias, INIA Quilamapu, Av. Vicente Méndez 515, Chillán 3780000, Chile

Dr. Maurizio Badiani

Dipartimento di Agraria, Università Mediterranea di Reggio Calabria, Loc. Feo di Vito, I-89129 Reggio Calabria, Italy

Deadline for manuscript submissions

closed (30 April 2025)



Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



mdpi.com/si/182891

Plants

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

[mdpi.com/journal/
plants](https://mdpi.com/journal/plants)





Plants

an Open Access Journal
by MDPI

Impact Factor 4.1
CiteScore 7.6
Indexed in PubMed



[mdpi.com/journal/
plants](https://mdpi.com/journal/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, and 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

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)