Special Issue

Recent Advances in Nutrition and Fertilization of Horticultural Crops

Message from the Guest Editor

Horticultural crop fertilization has moved toward a precision management system that aims at joining crop quality, environmental and economical sustainability. This goal can be achieved through 1) the knowledge of the nutrient requirement of the crop, 2) the determination of soil nutrient availability and kinetics of plant uptake and 3) the use of local, recycled, organic, agri-food wastes. Keeping in mind that the application of a circular economy path is an indispensable step on the way of pursuing a reduction of CO2 emission and the crop carbon footprint, the knowledge of optimal thresholds for soil nutrient availability for each horticultural crop is crucial to define a correct application rate not only for nitrogen, but also for all macro- and micronutrients. Soil structure, microbial communities, biodiversity (plant intercropping) and water management are among the major factors that affect nutrient availability and should be optimized to maximize fertilizer effectiveness. Keywords:

- organic amendment
- nutrient availability
- nutrient use efficiency
- nutrient uptake kinetic
- plant growth-promoting microorganisms
- root rhizosphere

Guest Editor

Dr. Moreno Toselli

Department of Agricultural and Food Sciences, University of Bologna, 33-40126 Bologna, Italy

Deadline for manuscript submissions

closed (30 June 2022)

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/si/69611

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

mdpi.com/journal/horticulturae

Horticulturae

an Open Access Journal by MDPI

Impact Factor 3.0
CiteScore 5.1

mdpi.com/journal/horticulturae

About the Journal

Message from the Editor-in-Chief

Horticultural plants and their products provide sustenance, health, and beauty. A confluence of factors is putting increasing pressure on horticultural production to evolve, and innovative research is addressing these challenges. *Horticulturae* provides a venue to communicate research results in a rapid manner with open access, allowing everyone the opportunity to stay abreast of leading research addressing horticulture. I invite you to consider publishing the results of your research in this high quality, peer-reviewed journal.

Editor-in-Chief

Prof. Dr. Luigi De Bellis
Department of Biological and Environmental Sciences and Technologies (DiSTeBA), Salento University, Lecce, Italy

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), PubAg, AGRIS, FSTA, and other databases.

Journal Rank:

JCR - Q1 (Horticulture) / CiteScore - Q1 (Horticulture)

MDPI