

Special Issue

Soil Fertility and Plant Nutrition for Sustainable Agriculture

Message from the Guest Editor

The main aim of this Special Issue is to publish papers focusing on recent scientific progress and innovation in soil fertility and plant nutrition for sustainable agriculture. We welcome novel research, reviews, and opinion papers covering all related topics that enhance our understanding on holistic fertilization management practices and discuss opportunities for maximizing crop growth and nutrition converting the conventional management systems into more sustainable and environment-preserving systems. In this context, the application of organic fertilizers, biochar, microbial biostimulants, the rational management of crop residues, and the enhancement of fertilizer use efficiency are innovative tools to optimize soil fertility and plant nutrition, which can lead farmers to adopt new pathways for a sustainable agriculture. Keywords

- soil quality
- biochar
- biofortification
- compost
- crop residues
- soil organic matter
- nitrogen
- plant growth promoting rhizobacteria
- micronutrients
- organic fertilizers and biofertilizers
- biostimulants
- nutrient use efficiency
- phosphorus
- potassium

Guest Editor

Prof. Dr. Dionisios Gasparatos

Laboratory of Soil Science and Agricultural Chemistry, Agricultural University of Athens, 11855 Athens, Greece

Deadline for manuscript submissions

closed (30 November 2022)



Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



mdpi.com/si/85355

Applied Sciences
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
appls@mdpi.com

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





Applied Sciences

an Open Access Journal
by MDPI

Impact Factor 2.5
CiteScore 5.3



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



About the Journal

Message from the Editor-in-Chief

As the world of science becomes ever more specialized, researchers may lose themselves in the deep forest of the ever increasing number of subfields being created. This open access journal Applied Sciences has been started to link these subfields, so researchers can cut through the forest and see the surrounding, or quite distant fields and subfields to help develop his/her own research even further with the aid of this multi-dimensional network.

Editor-in-Chief

Prof. Dr. Giulio Nicola Cerullo
Dipartimento di Fisica, Politecnico di Milano, Piazza L. da Vinci 32,
20133 Milano, 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), Inspec, CAPIus / SciFinder, and other databases.

Journal Rank:

JCR - Q1 (Engineering, Multidisciplinary) / CiteScore - Q1 (General Engineering)