

Special Issue

Effects of Engineered Nanomaterials on Soil Health and Plant Growth

Message from the Guest Editor

This Special Issue is focused on the evidence regarding the effects the addition of ENMs have on soil health and plant growth and quality. Therefore, studies regarding the effect of ENMs on the soil's physical, chemical, or biological properties are especially welcome, but the effect on soil health or plant growth must be highlighted. In addition, manuscripts regarding the effect of ENMs on morphological, phenological, biochemical, or genetic crop changes are also welcome. Studies using a plant growth chamber or greenhouse are desirable, but special interest will be in long-term field studies with at least one full-growth crop period. Omics-based studies regarding the effect of ENMs on soil health or crop growth, besides other modern analyses such as the use of microscopy techniques (AFM, TEM, CLSM, SRM, or SEM) or others used for the complete characterization of ENMs, soil health, or plant health, are expected. Studies focused on evaluating ENMs synthesized by green or eco-friendly technologies used in agriculture are interesting for this Special Issue, but their effects on soil health or plant growth must be discussed. Original research, opinions, and reviews are welcome.

Guest Editor

Dr. Fabián Fernández-Luqueño

Sustainability of Natural Resources and Energy Program, Cinvestav-Saltito, Coahuila 25900, Mexico

Deadline for manuscript submissions

31 August 2025



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/231692

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

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





Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



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



About the Journal

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

Editor-in-Chief

Prof. Dr. Les Copeland

Sydney Institute of Agriculture, School of Life and Environmental Sciences, The University of Sydney, Sydney, NSW 2006, Australia

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, RePEc, and other databases.

Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)