

Special Issue

Harnessing Nanotechnology for Improved Crop Growth and Protection

Message from the Guest Editors

This Special Issue focuses on nanotechnology in agriculture, covering areas like nanofertilizers, nanopesticides, nanosensors, and nano-delivery systems. We welcome contributions on: Nanofertilizers that enhance nutrient use efficiency, reduce environmental impact, and enable precise nutrient delivery or crop biofortification. Nanopesticides that provide safer, more effective, and targeted pest and disease control. Nanosensors that advance precision agriculture through real-time monitoring of soil, crops, and the environment. Nanotransport systems that improve agrochemical efficacy and reduce environmental impact via controlled release. Studies on the environmental toxicity and bioaccumulation of nanomaterials are also encouraged. This Special Issue welcomes reviews and original articles that encompass all aspects of the synthesis and characterization of nanomaterials, exploring their use as nanofertilizers and biostimulants for plant growth, metabolism, and tolerance to abiotic stress, as well as in pesticides (fungicides, bactericides, insecticides, nematicides, and weedicides) for crop protection against biotic stress.

Guest Editors

Dr. Soledad García-Morales

Biotecnología Vegetal, SECIHTI-Centro de Investigación y Asistencia en Tecnología y Diseño del Estado de Jalisco, Camino Arenero 1227, Zapopan 45019, Mexico

Prof. Dr. Graciela Dolores Ávila-Quezada

Facultad de Ciencias Agrotecnológicas, Universidad Autónoma de Chihuahua, Chihuahua 31350, Mexico

Deadline for manuscript submissions

10 April 2026



Agriculture

an Open Access Journal
by MDPI

Impact Factor 3.6
CiteScore 6.3



mdpi.com/si/257349

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, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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)