



## Integrated Nematode Management in Sustainable Agricultural Production

Guest Editor:

### Dr. Kang Qiao

Key Laboratory of Pesticide  
Toxicology and Application  
Technique, College of Plant  
Protection, Shandong  
Agricultural University, 61  
Daizong Street, Tai'an 271018,  
China

Deadline for manuscript  
submissions:  
**closed (31 August 2024)**

### Message from the Guest Editor

Plant-parasitic nematodes (PPN) are some of the most devastating agricultural pests and cause annual economic losses of up to USD 157 billion worldwide. PPN not only directly cause plant damages but also interact with other pathogens to form disease complexes, making them very difficult to control. To date, the application of chemical nematicides is still the major effective approach for controlling PPN. However, considering issues related to safety and environmental pollution, a variety of chemical nematicides have been limited in use in many countries due to their high toxicity to the environment. The urgent need to search for alternative PPN control methods that are less environmentally toxic is a demanding challenge to secure the increasing global food demand. Therefore, PPN management methods are no longer a single management method, but innovative integrated solutions that incorporate cultural practices, genetic resistance, and alternative nematicides to keep populations below damaging levels. In this Special Issue, we aim to exchange knowledge on integrated management strategies against plant-parasitic nematodes in sustainable agricultural production.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,  
Water and Environment  
Research, Charles Sturt  
University, Wagga Wagga, NSW  
2678, Australia

## Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet. *Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

## 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, and other databases.

**Journal Rank:** JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

## Contact Us

---

*Agronomy* Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
www.mdpi.com

mdpi.com/journal/agronomy  
agronomy@mdpi.com  
X@Agronomy\_Mdpi