



## Chemical Pesticides and Soil Health: The Urgent Need for a New Concept in Agriculture

Guest Editors:

**Dr. Romualda Bejger**

Department of Bioengineering,  
West Pomeranian University of  
Technology in Szczecin, Papieża  
Pawła VI No 3, 71-459 Szczecin,  
Poland

**Dr. Małgorzata Włodarczyk**

Department of Bioengineering,  
West Pomeranian University of  
Technology in Szczecin, Papieża  
Pawła VI No 3, 71-459 Szczecin,  
Poland

Deadline for manuscript  
submissions:

**closed (10 June 2024)**

### Message from the Guest Editors

Progress in the use of chemical pesticides is the result of progress in a variety of areas, such as production techniques. The intensive application of chemical pesticides contributes to the intensification of food production, but at the same time, may be one of the main sources of the anthropogenic pollution of soils. The widespread use of pesticides in agricultural areas promotes the deterioration of soil quality. Pesticide residues occurring in the soil are primary toxic chemicals that adversely affect human health and represent a serious risk regarding their introduction into the food chain. Thus, the health-related and environmental effects of chemical pesticides pose a serious problem that urgently requires new approaches, especially in terms of the reformation of agricultural practices and the implementation of sustainable and environmentally friendly methods.

This Special Issue will focus mainly on the impact of pesticides on the health of agricultural soils through different approaches and will present new agricultural concepts that are able to address the problem of pesticides' harmful effects and eliminate the difficulties associated with their use.





an Open Access Journal by MDPI

## 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

## 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.

## 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)

## Contact Us

---

Agriculture Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/agriculture](http://mdpi.com/journal/agriculture)  
[agriculture@mdpi.com](mailto:agriculture@mdpi.com)  
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)