

## Special Issue

# Effects of Fertilization on Heavy Metal Accumulation in Soil and Crops

### Message from the Guest Editors

Soil contamination with heavy metals is a serious problem. They are persistent in the environment and not only reduce crop yield, but also negatively affect human health. One of the main sources of heavy metals in soil is excessive mineral fertilization and the use of waste-based fertilizers. Taking into account the difficult situation of the fertilizer market, an increased interest in fertilizers based on by-products and waste, which are often contaminated with heavy metals, can be expected. The forms of heavy metals in fertilizers and their transformations in the soil environment are also important to assess the risk of their entry into the food chain. This Special Issue focuses on short- and long-term studies of the impact of fertilizer (conventional and waste-based) use on the accumulation of heavy metals in the soil, their bioavailability and impact on the growth and development of plants. Studies on the health risk assessment and innovative soil treatment technologies will also be taken into account. We welcome the submission of all types of articles, including original research, reviews and short communications.

### Guest Editors

Dr. Halyna Kominko

Department of Chemical Technology and Environmental Analytics,  
Faculty of Chemical Engineering and Technology, Cracow University of  
Technology, Warszawska Street 24, 31-155 Cracow, Poland

Prof. Dr. Katarzyna Gorazda

Department of Chemical Technology and Environmental Analytics,  
Faculty of Chemical Engineering and Technology, Cracow University of  
Technology, Warszawska Street 24, 31-155 Cracow, Poland

### Deadline for manuscript submissions

closed (30 September 2024)



## Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/201021](https://mdpi.com/si/201021)

*Agriculture*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agriculture@mdpi.com](mailto: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)