

## Special Issue

# Heavy Metals in Farmland Soils: Mechanisms and Remediation Strategies

### Message from the Guest Editors

Soil is the foundation for sustainable agricultural development. Heavy metals (HMS) are common pollutants in the soil, and this type of contamination is biologically toxic, and persists long-term in the soil. The accumulation of HMs in farmland also leads to declines in the soil buffering capacity and fertility, thus affecting crop growth and even reducing crop yields. This Special Issue invites to publish original, scientifically challenging research articles.

Specific topics of interest include, but are not limited to, the following:

Heavy metal pollutant exposure;

Environmental occurrences, transport, behavior, and effects of heavy metal pollutants in farmland soil;

Environmental heavy metal pollutants in farmland soil;

Food safety and environmental safety;

New technologies for soil heavy metal remediation in farmland;

Agronomy for heavy metal remediation;

Modeling of pollution processes in farmland soil environments;

Soil chemical, physical and biological process of heavy metals;

Effect of heavy metals on plant productions systems;

Crop genomic research on resistance or hyper-accumulation of heavy metals in farmland.

---

### Guest Editors

Dr. Tuo Zhang

Dr. Nan Zhang

Prof. Dr. Wei Liu

---

### Deadline for manuscript submissions

closed (20 November 2024)



## Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/190977](https://mdpi.com/si/190977)

*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)