



## Remediation of Heavy Metals-Contaminated Soils

Guest Editors:

**Prof. Dr. Marina V.  
Burachevskaya**

Academy of Biology and  
Biotechnology, Southern Federal  
University, Rostov-na-Donu,  
Russia

**Dr. Arpna Kumari**

Academy of Biology and  
Biotechnology, Southern Federal  
University, Rostov-na-Donu,  
Russia

Deadline for manuscript  
submissions:

**closed (10 January 2023)**

### Message from the Guest Editors

Anthropogenic and natural processes have led to the spread of chemical contamination in soils. Soil pollution with heavy metals (HMs) has become one of the most serious problems in agriculture, as it not only reduces crop yield, but also negatively affects human and animal health. The main threat of HMs is their tendency to accumulate in the soil and their weak degradation over time, which result in toxicity. Currently, there are many methods that can be used for remediation, both ex situ and in situ approaches, but they are unable to fully eliminate toxic elements. Each of the many remediation methods used has both advantages and disadvantages. The search for optimal ways to obtain and use the best method is a priority and urgent task facing researchers in solving the problem of soil pollution with heavy metals.

This Special Issue focuses on the development all remediation methods established to purify soils from HM pollution, reduce the availability of HMs in soils, improve the physical and chemical properties of the soil and, in general, increase soil fertility and the quality and quantity of crops.





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, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## 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 - Q2 (*Plant Science*)

## Contact Us

---

Agriculture Editorial Office  
MDPI, St. Alban-Anlage 66  
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)