



## Mechanisms of Heavy Metals and Trace Elements Assimilation in Crop and Countermeasures to Attenuate Their Accumulation

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Deadline for manuscript  
submissions:

**closed (31 December 2023)**

### Message from the Guest Editors

This special issue aims to provide research advancements of methods and tools to identify, monitor and remove contaminants in soils, especially considering Nature Based Solutions (NBS) as well as sustainable and cost-effectiveness chemical-physical methods. Emphasis will be given to studies that address topics about:

1. behavior of Trace Elements in Plant-Soil System, chemical processes involved in the transformation and processes controlling bioavailability and mobility of trace elements in soils;
2. uptake, translocation, and transformation of trace elements in crop plant-soil-microbe system,
3. bioavailability, phytoavailability, bioaccessibility and risk assessment of essential and non-essential elements in agri-food and soil;
4. focus on the balance of trace elements in an agroecosystem;
5. biotechnology and nanotechnology to regulate trace elements' behavior in the plant-soil system;
6. new technology for characterizing chemical forms and bioavailability of trace elements in agricultural soils;
7. soil trace elements as affected by climate change;
8. agronomic techniques and anthropogenic activities contribution to soil trace elements contents.





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