

## Special Issue

# Contamination Control and Detection Processes for Chemical Elements in Soil

### Message from the Guest Editors

This Special Issue is dedicated to publishing new technologies including green methods to assess soil and plant properties and how chemical elements behave on them. Careful soil management, including monitoring nutrient levels and controlling pollution, is necessary to maintain a healthy and productive soil ecosystem. To manage the quantities of chemical elements in soils, several analytical techniques are commonly used—each with its strengths—depending on the specific element being measured, as well as the sensitivity and the sample type. New technologies using remote and proximal sensors in an IoT (Internet of Things) context are extremely desirable for this Special Issue. Authors are invited to contribute with topics including, but not limited to, the following:

- Baselines of chemical elements in soils;
- How organic matter effects other elements' retention in soils;
- Analytical methods to quantify chemical elements in soil samples;
- Proximal sensors to estimate soil and plant properties;
- Emerging pollutants in soil, including nanomaterials, hormones, pharmaceuticals, and so on.

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### Guest Editors

Dr. Geila S. Carvalho

Dr. Bruno Teixeira Ribeiro

Dr. Everton Geraldo de Moraes

Dr. Cynthia De Oliveira

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### Deadline for manuscript submissions

30 April 2026



## Processes

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