

Special Issue

Micro- and Nanoplastic Pollution in Agricultural Soils

Message from the Guest Editors

Plastic pollution is a globally escalating environmental threat, pervasive across diverse ecosystems. Contamination in agricultural soils demands urgent attention due to its direct implications for food safety. Micro- and nanoplastics accumulate in farmland, altering soil physicochemical properties, disrupting structure, reducing biodiversity, and impairing biogeochemical cycles. These particles may enter the food chain via crop uptake, bioaccumulate in humans, and pose health risks. However, critical knowledge gaps persist regarding the source identification and ecological impacts of micro- and nanoplastics in agricultural soils.

This Special Issue will focus on source identification and analysis of micro- and nanoplastics, aging processes of micro- and nanoplastics, plasticizers in micro- and nanoplastics and their release and environmental impacts, effects of micro- and nanoplastics on soil structure, soil chemical properties, soil biota, and elemental cycling, transport and transformation of micro- and nanoplastics in the soil-plant system, and green plastic products for agricultural use. All types of articles, such as original research, opinions, and reviews, are welcome.

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