

Special Issue

Persistent Impact of Pesticides and Herbicides on Soil

Message from the Guest Editor

Pesticides and herbicides are indispensable tools for safeguarding global food security by controlling pests and weeds, yet their widespread and prolonged application has led to persistent accumulation in soil ecosystems. These xenobiotics can alter soil physicochemical properties (e.g., pH, organic matter content), disrupt microbial community structure and functional diversity, inhibit key enzymatic activities, and pose risks of bioaccumulation in terrestrial food chains—ultimately threatening soil health, crop productivity, and ecological sustainability. This Special Issue aims to gather original research and reviews focusing on the persistent impacts of pesticides/herbicides on soil systems, including (but not limited to) contamination characterization, biogeochemical cycling, microbial adaptation, remediation technologies, and sustainable management strategies. We invite contributions that provide novel insights to guide evidence-based policies and practices for mitigating soil pollution and preserving soil ecosystem services.

Guest Editor

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