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Tillage Methods on Soil Properties and Crop Growth

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Deadline for manuscript submissions:

closed (30 April 2025)

Message from the Guest Editors

Tillage has an immense effect on physical, chemical, and biological soil properties and, thereby, on crop productivity and environment. Although proper and timely use of tillage overcomes edaphic constraints to crop production, inopportune tillage may cause a variety of adverse effects, such as enhanced soil compaction, erosion, and degradation; loss of organic matter and fertility; disruption of water, carbon, and nutrient cycles; and negative effect on soil biota and biodiversity.

We invite manuscripts from integrative studies that assess the overall impact of conservation tillage methods on the establishment and yield of crops, growth of plants and roots, soil physics and erosion, soil–water relations, cycling of carbon and nutrients, greenhouse gas emissions, leaching, run-off, weed, pest and disease control, soil health and biodiversity, as well as their interaction and links to other soil functions in the context of environmental quality, climate change adaptation/mitigation, and soil quality/health.



mdpi.com/si/145644

Special Issue



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Message from the Editor-in-Chief

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