Special Issue

Soil Organic Matter and Tillage—2nd Edition

Message from the Guest Editors

Soil organic matter (SOM) dynamics under different tillage practices play a crucial role in soil health and agricultural sustainability: conventional tillage accelerates SOM decomposition, while reduced tillage or no-till systems preserve SOM, enhancing soil fertility and structure. Factors like climate and crop residue management influence these dynamics and long-term studies show that reduced tillage systems stabilize or increase SOM levels over time. Adopting reduced tillage practices can improve soil quality and resilience, but effectiveness varies based on local conditions. Overall, understanding the interplay between tillage practices and SOM dynamics is vital for optimizing agricultural productivity while minimizing environmental impact. In this Special Issue, we aim to exchange knowledge on various aspects related to soil organic matter dynamics in agricultural soils under different tillage practices, including their impact on soil health, nutrient cycling, and long-term sustainability.

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