



Mechanisms of Soil Organic Carbon Turnover under Different Farmland Management Practices

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Deadline for manuscript submissions:

closed (31 May 2023)

Message from the Guest Editors

Farmland soil organic carbon (SOC) is an essential indicator for representing soil fertility, maintaining sustainable development of agricultural systems, and ensuring global food security. SOC turnover parameters, such as SOC content, carbon use efficiency, respiration rate, turnover time, and carbon pool size et al., were significantly affected by different farmland management practices. Soil properties and climate factors also drive SOC turnover parameters. Although the benefits of increasing SOC have been widely studied, methods for quantifying key parameters of sequestering SOC under different farmland management practices are still poor. Therefore, it is essential to unravel the mechanisms of SOC turnover to provide useful information for future agriculture management.

In this Special Issue, we aim to exchange knowledge on any aspect of mechanisms of soil carbon turnover in agriculture.





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