Special Issue

Carbon Cycling in Cropping Systems: From Soil to Plant

Message from the Guest Editors

Agricultural soils are among the largest terrestrial carbon (C) reservoirs and have great potential to mitigate atmospheric CO2. Understanding C cycling processes in cropping systems would improve mechanism understanding and model predicting of the C fate in the agriculture ecosystem and is urgently needed to better assess the role of agriculture within the Earth system. In this Special Issue, a group of leading experts plan to share their innovative ideas from experimental, observational, and modeling perspectives regarding the turnover, stability, and transfer of C from soil to plant in cropping systems, and their responses to human activities and climate change factors from various spatial and temporal scales. This Special Issue will mainly address the following scientific issues: (1) How do C emission and sequestration inventories and the C footprint change in different cropping systems? (2) How does plant C contribute to soil C turnover and how do soil C cycling and related to plant C? (3) How do environmental stresses and agriculture practices trigger plant response, soil C cycling, and their interaction?

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