Special Issue

Tillage Systems and Fertilizer Application on Soil Health

Message from the Guest Editors

Across the globe, the intensive traffic of machines used in mechanized agriculture is currently the main cause of soil compaction, causing concerns about soil health. Soil tillage affects soil structure stabilization, organic matter stocks, and the quality and distribution of nutrients throughout the soil profile. No-tillage systems have become one of the most recomended soil management techniques that, by placing crop residues over the soil surface, protect the soil against raindrop impact, soil erosion, and compaction. Covering the soil with crop residues is one of the main factors that influence soil water infiltration. Moreover, the residues alleviate the stress induced by the wheels, tracks, and implements. The root systems of crops create the biogenic soil porosity that increases the soil's resistance to compaction and facilitates the flux of water, air, and heat in the soil profile.

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