Special Issue

Effects of Soil Tillage and Fertilizer Management on Production of Cereal Crops

Message from the Guest Editor

In the production of cereal crops, intensive tillage increases the mineralization of organic carbon in the soil, leading to a decrease in soil quality. In addition, the application of high-strength chemical fertilizers to enhance yield results in a large amount of nutrient loss in the form of volatilization, immobilization, denitrification, and leaching, as well as increasing the greenhouse gas emissions from farmland. Therefore, it is crucial to ensure high-quality farmland and promote sustainable cereal crop production.

This Special Issue aims to present all recent progress and perspectives surrounding global soil tillage and fertilizer management for cereal crop production. This issue will contain the latest research findings on all relevant topics, including but not limited to: conservation agriculture, soil tillage, fertilization mode, crop yield, agricultural product quality, resource utilization efficiency, soil fertility and health, soil nutrient supply and circulation, sustainability of soil fertilization, greenhouse gas emissions, ecological and economic benefits, and life cycle assessment. Original research papers, communications, and review articles are welcome.

Guest Editor

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