Special Issue

Cropping and Tillage Systems Impacts on Soil Physical Quality

Message from the Guest Editor

Soil's physical quality is a key driver of agroecosystem performance because it controls water infiltration and storage, aeration, root growth, and soil strength. Increasing traffic mechanization, intensification, and climate variability have raised concerns about compaction, structural degradation, and hydrological dysfunction. In this context, cropping systems and tillage strategies (e.g., no tillage, reduced, and conventional tillage) significantly influence aggregate stability, pore-size distribution, bulk density, and hydraulic properties, with direct implications for crop productivity and sustainability. This Special Issue aims to gather information on how cropping and tillage systems affect soil physical quality across soil textures, climates, and production conditions, including their effects on soil functioning, erosion risk, and yield stability. We welcome the submission of original research articles and reviews that combine robust experimentation, monitoring, and/or modeling, and innovative measurement approaches (e.g., soil physical indices, hydraulic functions, imaging of pore networks). We look forward to receiving your contributions.

Guest Editor

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