

Special Issue

Identification and Management of Soil Constraints

Message from the Guest Editor

One of the most important factors currently limiting agricultural productivity worldwide are soil constraints. Soil constraints are defined as soil characteristics that limit agricultural production and may be physical (e.g., compaction, layers of high bulk density, gravel); chemical (e.g., sodicity, salinity, and toxicities), or biological (e.g., diseases and pathogens). It is currently estimated that globally, 74% of soils are affected by one or more constraints, and these lead to significant loss in yield each year. Identifying appropriate management strategies to economically ameliorate constrained soils, or sustain agricultural production in the presence of constraints, will be crucial for future world food production. To help agricultural researchers and practitioners to better understand soil constraint management to boost agricultural production, this Special Issue comprehensively outlines the characteristics and management of constrained soils. This Special Issue invites original research and reviews on the principles and processes underlying the occurrence of major soil constraints and what current thinking is regarding the most appropriate strategies to manage these.

Guest Editor

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