Special Issue

Effects of Tillage Management on Agricultural Soil Characteristics

Message from the Guest Editors

Soil fertility degradation is a global problem that can cause a series of serious environmental, ecological, and agricultural issues, such as heightened flood susceptibility and decreased land productivity in sloping farmlands. The dynamics of nutrients and soil fertility are intricately linked to the process of soil redistribution resulting from tillage operations. It is widely recognized that long-term tillage leads to a significant translocation of soils, which has the potential to alter the physicochemical characteristics and functions of soil, particularly in hilly terrains. It is imperative to evaluate soil fertility in order to address these issues and guarantee food safety. Nevertheless, there is a scarcity of information on the impact of tillage erosion processes on the spatial variations in soil fertility and crop production on the hillslopes.

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Deadline for manuscript submissions

closed (15 December 2024)

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 6.3

mdpi.com/si/190415

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Agriculture (ISSN 2077-0472) is an international, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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