Special Issue

Circularity as a Strategy for Mitigating and Offsetting Agricultural Greenhouse Gases

Message from the Guest Editor

Agricultural systems emit significant greenhouse gases (GHGs), which contribute to climate change. This, in turn, leads to the increased occurrence of environmental constraints, that affect productivity and natural ecosystems. There's a need for innovative practices to decrease GHG emissions, sequester carbon for offsetting, and enhance on-farm adaptability to tackle the challenges. Circular agriculture, which incorporates novel, regenerative, and nature-based methods, has the potential to encourage the efficient reuse and recycling of resources and reduce chemical usage through the utilisation of biobased/bio-fertilisers. It can reduce resource requirements, enhance soil fertility and biodiversity, and minimise both GHG emissions and ecological footprint while enhancing carbon sequestration. To diminish the environmental footprint constitute a global imperative. This issue will encompass the aforementioned research areas, including data analytics, modeling/decision support systems, precision farming, bioeconomy, and policy matters that pertain to GHG mitigation and offsetting within the scope of circularity in agricultural systems.

Guest Editor

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Deadline for manuscript submissions

closed (15 October 2024)

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 7.8

mdpi.com/si/183065

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Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

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