



Circularity as a Strategy for Mitigating and Offsetting Agricultural Greenhouse Gases

Guest Editor:

Dr. M. Ibrahim Khalil

School of Agriculture and Food
Science, University College
Dublin, 04 Dublin, Ireland

Deadline for manuscript
submissions:

15 October 2024

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.





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Prof. Dr. Les Copeland

Sydney Institute of Agriculture,
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Agriculture Editorial Office
MDPI, St. Alban-Anlage 66
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