



## **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.





an Open Access Journal by MDPI

## Editor-in-Chief

### Prof. Dr. Les Copeland

Sydney Institute of Agriculture,  
School of Life and Environmental  
Sciences, The University of  
Sydney, Sydney, NSW 2006,  
Australia

## Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

## Author Benefits

**Open Access:** free for readers, with article processing charges (APC) paid by authors or their institutions.

**High Visibility:** indexed within Scopus, SCIE (Web of Science), PubAg, AGRIS, RePEc, and other databases.

**Journal Rank:** JCR - Q1 (*Agronomy*) / CiteScore - Q2 (*Plant Science*)

## Contact Us

---

Agriculture Editorial Office  
MDPI, St. Alban-Anlage 66  
4052 Basel, Switzerland

Tel: +41 61 683 77 34  
[www.mdpi.com](http://www.mdpi.com)

[mdpi.com/journal/agriculture](http://mdpi.com/journal/agriculture)  
[agriculture@mdpi.com](mailto:agriculture@mdpi.com)  
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)