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

Dr. M. Ibrahim Khalil
School of Agriculture and Food Science, University College Dublin, 04 Dublin, Ireland

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Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

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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.

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

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