



Cropping System Impact on Soil Quality and Greenhouse Gas Emissions

Guest Editors:

Prof. Dr. Joanna Lemanowicz

Department of Biogeochemistry
and Soil Science, Bydgoszcz
University of Science and
Technology, Al. prof. S. Kaliskiego
7, 85-796 Bydgoszcz, Poland

Prof. Dr. Agata Bartkowiak

Department of Biogeochemistry
and Soil Science, Bydgoszcz
University of Science and
Technology, Al. prof. S. Kaliskiego
7, 85-796 Bydgoszcz, Poland

Deadline for manuscript
submissions:

closed (20 January 2023)

Message from the Guest Editors

Atmospheric concentrations of the greenhouse gases (GHG) carbon dioxide (CO₂), nitrous oxide (N₂O), and methane (CH₄) continue to rise globally due to anthropogenic activities. Soil tillage, sowing, fertilizer, and pesticide addition have significant impacts on GHG emissions through perturbations in the carbon (C), nitrogen (N), and water dynamics of these agroecosystems. Agriculture is responsible for approximately 12% of global greenhouse gas emissions. Mitigation of greenhouse gas emissions from agriculture is a measure that aims to increase soil organic carbon sequestration and reduce greenhouse gas emission rates through improved management practices. This Special Issue focuses on the role that agricultural cropping systems play in greenhouse gas emissions. For this reason, it welcomes highly interdisciplinary quality studies from disparate research fields, including agriculture, landscaping, and environmentalism.





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

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