



Greenhouse Gas Emissions in Livestock Production

Guest Editors:

Prof. Dr. Claudia Arcidiacono

Department of Agriculture, Food
and Environment (Di3A),
University of Catania, 95123
Catania, Italy

Dr. Sabrina Hempel

Department Engineering for
Livestock Management, Leibniz
Institute for Agricultural
Engineering and Bioeconomy
(ATB), Max-Eyth-Allee 100, 14469
Potsdam, Germany

Provvidenza Rita D'Urso

Department of Agriculture, Food
and Environment (Di3A), Building
and Land Engineering Section,
University of Catania, Via Santa
Sofia, 100-95123 Catania, Italy

Deadline for manuscript
submissions:

closed (15 April 2024)

Message from the Guest Editors

The expected increase in meat and dairy product consumption due to population growth makes livestock housing, as a source of gaseous emissions, an increasing concern, due to its contribution to climate change. The generation rates of this kind of pollution vary with a number of variables such as outside climate conditions, housing systems, livestock building structure and equipment, ventilation systems, manure handling systems, growing cycles, animal diets, animal species, and farmer's barn management. Therefore, it is of high scientific relevance to investigate those relations and improve strategies for reducing GHG emissions from livestock buildings by applying smart farming technologies.

This Special Issue welcomes original contributions from researchers, including reviews and original research, that apply innovative methods and technologies, and address issues of scientific relevance in the following broad areas: measurement techniques, protocols, and methodological frameworks regarding the quantification of GHG emissions from livestock systems; methods, techniques, and strategies for reducing GHG emissions from livestock production 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

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