

## Special Issue

# Sustainable Forage-Based Livestock Systems: Strategies for Enhancing Farm Productivity, Soil Health, and Carbon Sequestration

### Message from the Guest Editor

Sustainable forage-based livestock systems have been shown to play a crucial role in improving farm productivity while enhancing soil health and mitigating climate change. The innovative management strategies, including optimized grazing practices, diversified forage crops, and integrated nutrient cycling, has the potential to reduce the carbon footprint of livestock production and promote long-term environmental sustainability. This Special Issue aims to explore cutting-edge research on sustainable forage production, soil carbon sequestration, and climate-smart livestock management. Key topics include forage species selection for resilience, adaptive grazing techniques, the role of legumes and cover crops in improving soil structure and fertility, and the potential of agroecological approaches to balance productivity with ecosystem services. Additionally, studies on the socioeconomic and policy aspects influencing the adoption of sustainable forage-based livestock systems are welcomed. Original research, reviews, and case studies addressing these challenges and opportunities are invited for publication in this Special Issue.

### Guest Editor

Dr. Giulia Ferronato

Department of Civil Engineering, Architecture, Environment, Land Planning and Mathematics (DICATAM), Università degli Studi di Brescia, 25121 Brescia, Italy

### Deadline for manuscript submissions

closed (30 October 2025)



## Agriculture

an Open Access Journal  
by MDPI

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/235346](https://mdpi.com/si/235346)

*Agriculture*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agriculture@mdpi.com](mailto:agriculture@mdpi.com)

[mdpi.com/journal/  
agriculture](https://mdpi.com/journal/agriculture)





# Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/journal/  
agriculture](https://mdpi.com/journal/agriculture)



## About the Journal

### Message from the Editor-in-Chief

*Agriculture* (ISSN 2077-0472) is an international, scholarly and scientific open access journal publishing peer-reviewed research papers, review articles, communications and short notes that reflect the breadth and interdisciplinarity of agriculture.

---

### 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

---

### 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 - Q1 (Plant Science)