

## Special Issue

# Sustainability in Silage Production

### Message from the Guest Editors

Forage preservation through the ensiling process is the primary way to ensure animal feeding during drought and under intensive production systems in several countries worldwide. However, silage fermentation can produce varied amounts of volatile compounds and effluent. Moreover, greenhouse gas emissions from livestock can be affected by the quality of silage fed to animals. As the world's population is increasingly demanding sustainable production systems in diverse areas, this involves silage production because it compounds a significant part of many animal diets. Thus, research covering the different strategies of silage management (use of silage additives, silo covering, delay to ensiling, packing, silage removal from the silo, silage processing and feeding, and so on) has been conducted to reduce undesirable products from silage fermentation; the use of the ensiling process as a strategy that uses by-products for animal feeding is needed. Therefore, considering the current interest in sustainable systems of animal production, this Special Issue covers a wide variety of management strategies aiming to contribute to the overall knowledge of sustainable silage production.

---

### Guest Editors

Dr. Carlos Henrique Silveira Rabelo

Federal University of Pelotas, Brazil Universidade Federal de Pelotas,  
Departamento de Fitotecnia, Capão do Leão, RS, Brasil

Prof. Dr. Ricardo Andrade Reis

Animal Science Department, School of Agrarial and Veterinarian  
Sciences, Jaboticabal, Sao Paulo 14884-900, Brazil

Prof. Dr. Xusheng Guo

School of Life Sciences, Lanzhou University, Lanzhou, China

---

### Deadline for manuscript submissions

closed (31 August 2024)



## Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



[mdpi.com/si/178086](https://mdpi.com/si/178086)

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

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





# Plants

---

an Open Access Journal  
by MDPI

---

Impact Factor 4.1  
CiteScore 7.6  
Indexed in PubMed



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



## About the Journal

### Message from the Editor-in-Chief

*Plants* is an open access journal which provides an advanced forum for research findings in areas related to plant function, its physiology, biology, taxonomy, stresses, and its interactions with other organisms. It publishes original research articles, reviews, reports, and conference proceedings (peer reviewed full articles) and communications. In original research papers, it is important that full experimental details are provided. We also encourage timely reviews and commentaries on topics of interest to the plant research community.

---

### Editor-in-Chief

Prof. Dr. Dilantha Fernando

Department of Plant Science, University of Manitoba, Winnipeg, MB  
R3T 2N2, Canada

---

### 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), PubMed, PMC, PubAg, AGRIS, CAPlus / SciFinder, and other databases.

#### Journal Rank:

JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Ecology, Evolution, Behavior and Systematics)