

## Special Issue

# Impact of Plastics on Agriculture

### Message from the Guest Editor

Agricultural plastics are important implements for the productivity, profitability, and sustainability of vegetables and other specialty crop production systems. However, increased plastic use has led to the stockpiling of poorly biodegradable conventional plastics on farms or other improper disposals, which leads to the formation of microplastics that can induce “plastic pollution” in soil and nearby waterways, having a negative impact on soil health and water quality, thereby posing a threat to food production systems. Even the employment of biodegradable plastics, particularly in mulch films, which provides more sustainable plastic disposal options (biodegradation in soil or by composting), produces microplastics that can reside for several months. This Special Issue aims to highlight the current state of the art of agricultural plastics. We welcome research, perspectives, and review articles pertaining to agricultural plastics: new products and applications, improved best practices for their deployment and disposal, the upcycling of plastics after the completion of their service life, and their impacts on agricultural ecosystems and farmers.

---

### Guest Editor

Prof. Dr. Douglas Hayes

Department of Biosystems Engineering and Soil Science, University of Tennessee, Knoxville, TN 37996, USA

---

### Deadline for manuscript submissions

closed (10 August 2024)



## Agriculture

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.6  
CiteScore 6.3



[mdpi.com/si/181748](https://mdpi.com/si/181748)

*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), GEOBASE, PubAg, AGRIS, RePEc, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Plant Science)