Special Issue

Intelligent Agricultural Seeding Equipment

Message from the Guest Editor

Modern agriculture faces challenges such as labor shortages and the urgent need for efficient, sustainable resource use. Traditional sowing methods often lack precision, uniformity, and adaptability, leading to uneven crop emergence, reduced yields, and lower productivity. To address these issues, intelligent seeding technologies are increasingly vital for enhancing efficiency, reducing waste, and supporting high-quality crop production. Smart seeding systems integrate advanced tools like sensors, IoT connectivity, AI algorithms, and automated controls. They adjust seeding depth and spacing in real time according to soil and crop conditions, minimize seed and fertilizer waste, collect valuable data for data-driven farm management, and reduce the need for manual labor. This Special Issue aims to highlight innovations and progress in smart seeding technologies and their role in precision agriculture. We invite original research, reviews, and perspectives on interdisciplinary approaches, including mechanical design, automation, data analysis, and applications across field and specialty crops.

Guest Editor

Prof. Dr. Ying Zang

College of Engineering, South China Agricultural University, Guangzhou 510642, China

Deadline for manuscript submissions

10 April 2026

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 6.3

mdpi.com/si/257140

Agriculture
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
agriculture@mdpi.com

mdpi.com/journal/agriculture

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 6.3

mdpi.com/journal/agriculture

MDPI

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)