Special Issue

Smart Drying Technologies for Agricultural Products

Message from the Guest Editor

The drying of agricultural products is a fundamental process in food preservation and storage, playing a crucial role in extending shelf life, reducing post-harvest losses, and ensuring global food security. Smart drying technology has emerged as a key component of next-generation drying equipment. This technology integrates a variety of multi-sensors (such as computer vision, bionic systems, spectroscopy, magnetic resonance imaging, ultrasound, etc.) and intelligent control systems to enable real-time monitoring and precise regulation of the drying process.

Topics of interest for this Special Issue include, but are not limited to, the following research areas:

- The application of multi-sensor technologies (e.g., computer vision, bionic systems, spectroscopy, magnetic resonance imaging, ultrasound) in agricultural product drying;
- The development of AI-based intelligent control systems;
- Real-time monitoring technologies to assess quality parameters during the drying process;
- The evaluation of the energy consumption and environmental impacts of drying technologies;
- The design, optimization, and industrial applications of smart drying equipment.

Guest Editor

Dr. Junwen Bai

School of Food and Biological Engineering, Jiangsu University, Zhenjiang 212013, China

Deadline for manuscript submissions

30 November 2025

Agriculture

an Open Access Journal by MDPI

Impact Factor 3.6
CiteScore 6.3

mdpi.com/si/241664

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, cross-disciplinary and scholarly journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. We invite submissions from authors according to the aims and scope of the journal described in more detail on this page. *Agriculture* is published in an open access format – articles are published on the journal's website immediately after acceptance, giving the scientific community and the public unlimited and free access to the content.

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)