

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

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