



Advances in Aerial Application Equipment and Technology for Agricultural Production

Guest Editors:

Prof. Dr. Ruirui Zhang

Beijing Academy of Agricultural
and Forestry Sciences, Beijing
100097, China

Prof. Dr. Jiangtao Qi

College of Biological and
Agricultural Engineering, Jilin
University, 5988 Renmin Street,
Changchun 130025, China

Dr. Longlong Li

Beijing Academy of Agriculture
and Forestry Sciences, Beijing
100097, China

Deadline for manuscript
submissions:

15 July 2024

Message from the Guest Editors

Owing to the development of sensors and intelligent control technology, unmanned and manpower-saving aerial application equipment and technology are being iteratively upgraded to promote efficient and intelligent agricultural production. Nowadays, the application domain of aerial application technology is subdivided, and it is expanding to many new application scenarios (e.g., fertilization, seeding, pollination, detasseling, and feed delivery), exhibiting great potential in agricultural production.

This Special Issue focuses on in-depth research addressing novel aerial application technologies and equipment for agricultural production, including remote sensing, aircraft path planning and navigation, experimental and numerical models for the movement of agricultural materials, collaboration between UAVs and UGVs, accurate application control methods and the evaluation of the application quality. Research articles will cover a broad range of aerial applications for agricultural production, including chemical spraying, fertilization, seeding, pollination, and detasseling, etc. All types of articles, such as original research, opinions, and reviews, are welcome.





an Open Access Journal by MDPI

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

Message from the Editor-in-Chief

Agriculture (ISSN 2077-0472) is an international, crossdisciplinary and scholarly open access journal on the science and technology of crop and animal production, and management of the natural resource base for agricultural production. *Agriculture* is published in an open access format – research articles, reviews and other contents are released on the internet immediately after acceptance. The scientific community and the public have unlimited and free access to the content as soon as it is published.

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 - Q2 (*Plant Science*)

Contact Us

Agriculture Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/agriculture
agriculture@mdpi.com
[X@AgricultureMdpi](https://twitter.com/AgricultureMdpi)