



Agrochemical Ecology

Guest Editors:

Prof. Dr. Long Zhang

Dr. Xingcong Jiang

Dr. Ruo Sun

Deadline for manuscript
submissions:

closed (15 November 2024)

Message from the Guest Editors

Chemical communications are crucial for individuals to survive and populations to thrive in ecological systems. A greater understanding of chemical communication could lead to improvements in reproductive efficiency and animal welfare, the culture of crops and microorganisms, as well as pest management in terrestrial and aquatic agricultural activities. Therefore, this Special Issue devotes to reporting the progress in origin, function, and significance of natural chemicals that may be applied to regulate the interactions within and between organisms in agricultural ecosystems.

The contributions may include the original research on substantive observations of chemical mediating interactions, the elucidation of mechanisms of chemical signals production and reception, the application of natural chemical signals in the regulation of animals, the culture of crops and microorganisms, and pest management. Review articles and short communications are also 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, 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.

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)

Contact Us

Agriculture Editorial Office
MDPI, Grosspeteranlage 5
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)