# Special Issue

# Advances in Legume Nitrogen Fixation in Agroecosystems

# Message from the Guest Editor

Nowadays, farmers can use chemical nitrogen fertilizers for agricultural production. As a result, the productivity of crops increased several-fold during the 20th century to meet the demand of the increasing world population. On the other hand, the excess or inappropriate use of nitrogen fertilizers caused environmental problems such as nitrate leaching and contamination in ground water, and the emission of the global warming gas N2O. The use of legume nitrogen fixation in agriculture or agroecosystems may be one of the best solutions to keep both crop productivity high and to solve the environmental issues. This Special Issue focuses on the frontiers of the use of legume nitrogen fixation in agroecosystems, including crop production in agricultural fields, and the maintenance of grassland and forestry. For this reason, we welcome interdisciplinary studies from disparate research fields. including agricultural sciences, environmental sciences, ecological sciences, crop management, fertilizer sciences, etc., to improve crop productivity and reduce the ecological problems for sustainable agriculture. Original research articles and reviews are accepted.

## **Guest Editor**

Prof. Dr. Takuji Ohyama

Laboratory of Biochemistry in Plant Productivity, Department of Agricultural Chemistry, Tokyo University of Agriculture, Tokyo 156-8502, Japan

## Deadline for manuscript submissions

closed (20 April 2024)



# Agriculture

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 4.9



mdpi.com/si/144765

Agriculture 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 3.3 CiteScore 4.9



# **About the Journal**

# 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.

## 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)

