

## Special Issue

# Biological Nitrogen Fixation Technology in Sustainable Agroecosystem

### Message from the Guest Editors

This Special Issue of *Agronomy* aims to promote biological nitrogen (N) fixation as the promising tool to improve and sustain crop yield and ecosystems functioning, conjointly with a reduction of the industrial production of inorganic N and its consequences on the Earth carbon (C) balance. Many N fixation processes can be concerned, from direct fixation by soil bacteria to symbioses between microorganisms and vegetal organs, especially of legume species. Many mechanisms can be studied from genomes of plant species and associated symbionts, as well as ecological equilibria between inorganic N, microorganisms, and plant roots. Studies on possible interaction of N fixation with other soil elements such as phosphorus (P) can be appreciated, such as those concerning N transfer from legumes to associated non-fixing plants. In any case, submissions improving the knowledge of biological mechanisms and related technologies on N fixation, such as modeling, are welcomed.

---

### Guest Editors

Prof. Marc Pansu  
Dr. Hatem Ibrahim  
Dr. Mourad Latati

---

### Deadline for manuscript submissions

closed (31 July 2021)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/si/74649](https://mdpi.com/si/74649)

*Agronomy*  
Editorial Office  
MDPI, Grosspeteranlage 5  
4052 Basel, Switzerland  
Tel: +41 61 683 77 34  
[agronomy@mdpi.com](mailto:agronomy@mdpi.com)

[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)





# Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 6.7



[mdpi.com/journal/  
agronomy](https://mdpi.com/journal/agronomy)



## About the Journal

### Message from the Editor-in-Chief

*Agronomy* draws together researchers from diverse areas of agricultural research with a common aim of enhancing agricultural productivity globally. The journal provides unlimited free access to all those interested in advancing agricultural science from both the research and general community. Papers are released immediately after acceptance through the internet.

*Agronomy* is supported by our authors and their institutes through low article processing charges (APC) for accepted papers. We hope you will support the journal by becoming one of our authors.

---

### Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture, Water and Environment Research,  
Charles Sturt University, Wagga Wagga, NSW 2678, 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), GEOBASE, PubAg, AGRIS, and other databases.

#### Journal Rank:

JCR - Q1 (Agronomy) / CiteScore - Q1 (Agronomy and Crop Science)