

## Special Issue

# Strategies for Greenhouse Gas Emissions Mitigation

### Message from the Guest Editor

The challenges of today's agriculture involve a reduction of its impact on climate change. The main greenhouse gases associated with agriculture are carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>). The use of fertilizers, both organic and mineral, and the management performed are the main factors that regulate greenhouse gas emissions in agricultural soils. That is why strategies must be developed to mitigate the environmental impact of agriculture. The correct fertilizer should be applied at the right time and at an appropriate dose for effective mitigation. Other strategies have also been developed, like the use of urease or nitrification inhibitors, or the changes in soil management. The reduction of soil tillage, the use of crop rotations or cover crops are also strategies to mitigate greenhouse gas emissions from agriculture. However, the combined use of some of these strategies does not have to be positive or work in all edaphoclimatic conditions. That is why the challenge is focused on developing new mitigation strategies as efficiently as possible for each crop and soil and climate conditions.

---

### Guest Editor

Dr. Sergio Menéndez

R&D and Advisory Department, EuroChem Agro Iberia, S.L. Joan d'Austria, 39-47 6B 08005 Barcelona, Spain

---

### Deadline for manuscript submissions

closed (10 April 2019)



## Agronomy

---

an Open Access Journal  
by MDPI

---

Impact Factor 3.4  
CiteScore 7.6



[mdpi.com/si/15649](https://mdpi.com/si/15649)

*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 7.6



[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)