



Photosynthetic Carbon Metabolism to Enhance Crop Productivity

Guest Editor:

Dr. Robert Sharwood

Research School of Biology,
Australian National University,
Canberra, ACT 2601, Australia

Deadline for manuscript
submissions:

closed (31 December 2018)

Message from the Guest Editor

Dear Colleagues,

With significant increases in the global population, and the accelerating changes in climate, maintaining future increases in yields of food and fibre crops is coming under serious threat. The impact of climate change will intensify with the continued reductions in arable land and the availability of water that is often limiting for crop production. Future climates are predicted to increase the intensity and frequency of extreme events, such as heatwaves and changes in rainfall patterns associated with droughts. Crops will now need to be equipped with flexible strategies to cope with these extreme climates to mitigate declines in productive yields associated with climate variability.

The objective of this Special Issue is to provide new research and review articles on recent advances in improving crop resource-use efficiency associated with improving photosynthesis and carbohydrate metabolism. The scope of this Special Issue will encompass all aspects of photosynthesis and respiration and the use of breeding and molecular engineering efforts to enhance crop productivity to mitigate the influence of future changes in climate.

Dr. Robert Sharwood
Guest Editor





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Leslie A. Weston

Gulbali Centre for Agriculture,
Water and Environment
Research, Charles Sturt
University, Wagga Wagga, NSW
2678, Australia

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.

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, and other databases.

Journal Rank: JCR - Q1 (Plant Sciences) / CiteScore - Q1 (Agronomy and Crop Science)

Contact Us

Agronomy Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/agronomy
agronomy@mdpi.com
X@Agronomy_Mdpi