## **Special Issue**

### The Role of Silicon in Improving Crop Growth under Abiotic Stress

### Message from the Guest Editors

The aim of this Special Issue is to delve into the dynamic role of silicon in improving crop performance under environmental stress. It intends to showcase how silicon can significantly mitigate the effects of abiotic stressors, such as drought, salinity, and extreme temperatures, thereby enhancing plant growth and productivity. The Special Issue will feature innovative research on the following:

- New sources of silicon, as well as their optimal concentrations and application methods;
- The interactions between silicon and plant genes affecting stress resistance;
- The impact of silicon on plant microbiomes and overall health;
- The role of silicon in enhancing water use efficiency in arid conditions;
- The impact of silicon on crop yield and quality, demonstrating how supplementation can improve crop performance.

Contributions are sought in the form of original research, comprehensive reviews, and methodological papers that advance our understanding of silicon's mechanisms of action in plants and its integration into sustainable farming practices.

### **Guest Editors**

Prof. Dr. Jonas Pereira de Souza Junior Citrus Research and Education Center, University of Florida, Lake Alfred, FL 33850, USA

Prof. Dr. Cid Naudi Silva Campos

Department of Agronomy, Federal University of Mato Grosso do Sul (UFMS), Chapadão do Sul, Brazil

### Deadline for manuscript submissions

20 December 2024



## Agriculture

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 4.9



mdpi.com/si/205524

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



agriculture



## 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)