



Sustainable Crop Production and Management: The Perspective of Controlled Environment Agriculture

Guest Editors:

Dr. Yujin Park

College of Integrative Sciences
and Arts, Arizona State
University, Mesa, AZ, USA

Dr. Qingwu (William) Meng

Department of Plant and Soil
Sciences, University of Delaware,
Newark, DE, USA

Prof. Dr. Erik Runkle

Department of Horticulture,
Michigan State University, East
Lansing, MI, USA

Deadline for manuscript
submissions:

closed (31 March 2023)

Message from the Guest Editors

In this Special Issue, we would like to offer a forum where researchers, scholars, and professionals in CEA can share opinions and research findings on the current and potential contributions of CEA to sustainable crop production and management. We welcome studies that feature state-of-the-art practices and technological advancements in areas such as LED lighting, agrivoltaics, hydroponics, aeroponics, nutrient management, sensor technologies, new crop development for CEA, environmental optimization, and their impacts on the nutrition, flavor, and quality of food crops and efficiency, productivity, profitability, and sustainability of crop production. Both research and review manuscripts will be welcome. The valuable discussion in this Special Issue will contribute to facilitating CEA development for sustainable crop production.

- aeroponics
- agrivoltaics
- controlled environment agriculture
- greenhouse production
- hydroponics
- indoor agriculture
- leafy greens
- LED lighting
- photobiology
- plant factory
- plant lighting





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Steve W. Lyon

School of Environment and
Natural Resources, Ohio State
University, Columbus, OH 43210,
USA

Message from the Editor-in-Chief

I encourage you to contribute a research or comprehensive review article for consideration for publication in *Sustainability*, an international open access journal which provides an advanced forum for research findings in areas related to sustainability and sustainable development. The journal publishes original research articles, reviews, conference proceedings (peer reviewed full articles) and communications. I am confident you will find the journal contributes to enhancing understanding of sustainability and fostering initiatives and applications of sustainability-based measures and activities.

Author Benefits

Open Access: free for readers, with [article processing charges \(APC\)](#) paid by authors or their institutions.

High Visibility: indexed within [Scopus](#), [SCIE](#) and [SSCI \(Web of Science\)](#), [GEOBASE](#), [GeoRef](#), [Inspec](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

Journal Rank: JCR - Q2 (Environmental Studies) / CiteScore - Q1 (Geography, Planning and Development)

Contact Us

Sustainability Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](#)