Special Issue

Sustainable Greenhouse Production Strategies to Mitigate Product Carbon Footprint

Message from the Guest Editors

Food production and consumption has a significant environmental impact and the current consensus is that we must move towards more sustainable practices. In this context, greenhouse gas emissions associated with greenhouse production strategies is a central issue in many countries.

The increase of resource use efficiency (IRUE) in terms of energy, water, nutrients and growing media use provides strategies to maximize production while taking measures against climate change. Renewable Energy Sources (RES) fit in this context, proving to be a useful tool for sustainable greenhouses. Currently, the knowledge concerning utilization of sustainable greenhouse production strategies and product carbon footprint is increasing. Still, many key points must be studied in depth regarding the sustainable use and reuse of energy, water, nutrients and growing media under different greenhouse types and locations around the world.

Based on these challenges, this Special Issue is welcoming papers, that provide insight into all topics related to sustainable greenhouse. Some perspectives on economic sustainability are also encouraged.

Guest Editors

Dr. Georgios Ntinas

Institute of Plant Breeding and Genetic Resources, Hellenic Agricultural Organization-Dimitra, 57001 Thessaloniki, Greece

Dr. Dennis Dannehl

Division Biosystems Engineering, Albrecht Daniel Thaer Institute of Agricultural and Horticultural Sciences, Faculty of Life Sciences, Humboldt-Universität zu Berlin, 14195 Berlin, Germany

Deadline for manuscript submissions

closed (30 September 2023)



Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



mdpi.com/si/73047

Sustainability
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
sustainability@mdpi.com

mdpi.com/journal/ sustainability





Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3 CiteScore 7.7



About the Journal

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.

Editor-in-Chief

Prof. Dr. Steve W. Lyon

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

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)

