



Innovation and Technology for Sustainable Agriculture

Guest Editors:

Dr. Noppol Arunrat

Faculty of Environment and
Resource Studies, Mahidol
University, Nakhon Pathom
73170, Thailand

Prof. Dr. Ryusuke Hatano

Research Faculty of Agriculture,
Hokkaido University, Sapporo
060-8589, Japan

Dr. Chunying Wang

College of Water Resources,
North China University of Water
Resources and Electric Power,
Zhengzhou 450045, China

Deadline for manuscript
submissions:

closed (15 September 2023)

Message from the Guest Editors

Agriculture has been facing several threats, such as climate change, water and land scarcity, soil degradation, urbanization and land use change, invasive species and diseases. While all these threats are daunting for the sustainability of food systems, innovation and technology may yield solutions in this era. In the classical sense the innovation and technology for sustainable agriculture include appropriate land, water, and nutrient management; pest control; crop cultivar selection and development; and farm equipment to improve crop productivity. In addition, biotechnologies, digital technologies, renewable energy technologies, and mechanization are also valuable directions.

In this Special Issue, original research articles and reviews are welcome. Research areas may include:

- Climate change impact, mitigation and adaption strategies
- Climate-smart farming
- Agricultural eco-efficiency
- Low-carbon agriculture
- Organic farming
- Urban agriculture
- Precision agriculture
- Values-based supply chains
- Nutrition and food systems education
- Soil nutrient management
- Water use efficiency
- Water quality management
- Social equity in agriculture
- Youth in agriculture





an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Marc A. Rosen

Faculty of Engineering and
Applied Science, University of
Ontario Institute of Technology,
Oshawa, ON L1G 0C5, Canada

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. *Sustainability* publishes original research articles, review 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](#), [AGRIS](#), [RePEc](#), [CAPlus / SciFinder](#), and [other databases](#).

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

Contact Us

Sustainability Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

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

mdpi.com/journal/sustainability
sustainability@mdpi.com
[X@Sus_MDPI](https://twitter.com/Sus_MDPI)