Special Issue

Impact of Soil Moisture and Fertilizer Use on Crops

Message from the Guest Editors

Recent studies have revealed that the regulation of soil water and fertilizers affect crop growth, development, yield and composition, and have developed models for simulating crop response to soil water and fertilizers at different growing stages. Also, the mechanisms behind and the simulation of crop physiological responses to different soil water and fertilizer challenge our current understanding. This Special Issue aims to illuminate the complexity of soil water and fertilizer in relation to crop phenotype and physiological and biochemical processes under different scenarios. This SI welcomes original research articles and reviews. Research areas may include (but are not limited to) the following:

- Irrigation water and fertilizer optimization methods and technologies;
- Crop-water relations, crop yields, and water productivity;
- Crop physiological response to soil moisture and fertilizer application;
- Fertilizer absorption and utilization efficiency;
- Environmental impacts of irrigation and fertilizer management;
- Soil water and fertilizer interact with roots;
- Response of soil moisture to precipitation;
- Rainwater harvesting and crop water management in rainfed areas.

Guest Editors

Dr. Jiyang Zhang

Prof. Dr. Yang Gao

Dr. Zhuanyun Si

Deadline for manuscript submissions

closed (23 September 2023)

Sustainability

an Open Access Journal by MDPI

Impact Factor 3.3
CiteScore 7.7

mdpi.com/si/162287

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

mdpi.com/journal/sustainability

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. *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.

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

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)