



Agricultural Sciences



Journal Editorial Board

ISSN Print: 2156-8553 ISSN Online: 2156-8561 https://www.scirp.org/journal/as

Editor-in-Chief

Prof. Daniele De Wrachien State University of Milan, Italy

Executive Editor-in-Chief

Prof. Mudlagiri B. Goli Mississippi Valley State University, USA

Editorial Board

Dr. Ghulam Abbas Riphah College of Veterinary Science, Pakistan

Prof. Said Elshahat AbdallahKafrelsheikh University, EgyptProf. Abdulrasoul AlomranKing Saud University, Saudi ArabiaProf. Emilija ArsovGoce Delcey University, Macedonia

Dr. Aziz AzizUniversity of Reims, France

Prof. Nacer Bellaloui Crop Genetics Research Unit, USA

Dr. Coulibaly Noupé Diakaria Centre National de Recherche Agronomique (CNRA),

Cote d'Ivoire

Prof. Oguz Dolgun Adnan Menderes University, Turkey

Prof. Carlo Duso University of Padua, Italy

Dr. Shah Fahad Leshan Normal University, China

Prof. Dionisios GasparatosAristotle University of Thessaloniki, GreeceProf. Ghanshyam D. HedaMississippi University for Women, USAProf. Hongqing HuHuazhong Agricultural University, China

Prof. Chung L. Huang The University of Georgia, USA

Prof. Chao Liang University of Wisconsin-Madison, USA

Prof. Giulio LorenziniUniversity of Parma, Italy

Dr. Mahmoud Okasha Agricultural Engineering Research Institute (AEnRI), Egypt

Prof. Junhua PengChinese Academy of Sciences, ChinaProf. Elena PetrushkinaRussian Academy of Sciences, Russia

Prof. Maria Cristina Marcucci Ribeiro Universidade Estadual Julio de Mesquita Filho, Brazil

Dr. José Leonardo Ledea Rodríguez Northwest Biological Research Center, Mexico

Prof. Uttam Saha University of Georgia, USA

Prof. Ram Roshan Sharma Indian Agricultural Research Institute, India

Prof. Allan T. Showler Kika de la Garza Subtropical Agricultural Research Center, USA

Prof. Sidat Yaffa University of the Gambia, Gambia

Prof. Osei-Agyeman Yeboah North Carolina A&T State University, USA

Prof. Yongsan Zeng Zhongkai University of Agriculture and Engineering, China

Prof. Wenjun Zhang Sun Yat-sen University, China



Volume 13 Number 8

ISSN Online: 2156-8561 ISSN Print: 2156-8553

Table of Contents

Volume 13	Number 8	August 2022
Aluminum Soil (Chemistry: Influence on Soil Health and	Forest Ecosystem Productivity
M. Aide		917
Temporal Comp	arisons of Apparent Electrical Conducti	ivity: A Case Study on
Clay and Loam S	Soils in Mississippi	
R. S. Fletcher		936
Water, Energy a	nd Nutrient Losses from Food Wastage	of Selected Crops in
Three Agro-Clin	natic Zones in British Columbia, Canada	a
A. Reinesch, L. F	ausak, A. Joseph, L. Lavkulich	947

Agricultural Sciences (AS)

Journal Information

SUBSCRIPTIONS

The *Agricultural Sciences* (Online at Scientific Research Publishing, https://www.scirp.org/) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per copy.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

SERVICES

Advertisements

Advertisement Sales Department, E-mail: service@scirp.org

Reprints (minimum quantity 100 copies)

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail:sub@scirp.org

COPYRIGHT

Copyright and reuse rights for the front matter of the journal:

Copyright © 2022 by Scientific Research Publishing Inc.

This work is licensed under the Creative Commons Attribution International License (CC BY).

http://creativecommons.org/licenses/by/4.0/

Copyright for individual papers of the journal:

Copyright © 2022 by author(s) and Scientific Research Publishing Inc.

Reuse rights for individual papers:

Note: At SCIRP authors can choose between CC BY and CC BY-NC. Please consult each paper for its reuse rights.

Disclaimer of liability

Statements and opinions expressed in the articles and communications are those of the individual contributors and not the statements and opinion of Scientific Research Publishing, Inc. We assume no responsibility or liability for any damage or injury to persons or property arising out of the use of any materials, instructions, methods or ideas contained herein. We expressly disclaim any implied warranties of merchantability or fitness for a particular purpose. If expert assistance is required, the services of a competent professional person should be sought.

PRODUCTION INFORMATION

For manuscripts that have been accepted for publication, please contact:

E-mail: as@scirp.org



Call for Papers

Agricultural Sciences

ISSN Print: 2156-8553 ISSN Online: 2156-8561 https://www.scirp.org/journal/as

Agricultural Sciences (AS) is an international refereed journal dedicated to the latest agricultural science. The goal of this journal is to keep a record of the state-of-the-art research and promote the research work in these fast moving areas.

Editor-in-Chief Prof. Daniele De Wrachien

Executive Editor-in-Chief Prof. Mudlagiri B. Goli

Editorial Board

Dr. Ghulam Abbas Prof. Said Elshahat Abdallah Prof. Abdulrasoul Alomran Prof. Emilija Arsov Dr. Aziz Aziz Prof. Nacer Bellaloui Dr. Coulibaly Noupé Diakaria

Prof. Oguz Dolgun Prof. Carlo Duso Dr. Shah Fahad Prof. Dionisios Gasparatos Prof. Ghanshyam D. Heda Prof. Hongqing Hu Prof. Chung L. Huang Prof. Chao Liang Prof. Giulio Lorenzini Dr. Mahmoud Okasha Prof. Junhua Peng Prof. Elena Petrushkina

Prof. Maria Cristina Marcucci Ribeiro

Dr. José Leonardo Ledea Rodríguez

Prof. Uttam Saha Prof. Ram Roshan Sharma Prof. Allan T. Showler Prof. Sidat Yaffa

Prof. Osei-Agyeman Yeboah Prof. Yongsan Zeng Prof. Wenjun Zhang

Subject Coverage

This journal invites original research and review papers that address the following issues in agricultural sciences. Topics of interest include, but are not limited to:

- Agricultural Biodiversity
- Agricultural Botany
- Agricultural Ecology
- Agricultural Economics
- Agricultural Electrification and Automation
- Agricultural Entomology
- Agricultural Genomics
- Agricultural Production
- Agricultural Resources
- Agrochemistry
- Agrology
- Agronomy
- Animal Breeding and Nutrition
- Aquaculture
- Biological Engineering
- Breeding Genetics and Pathology
- Crop Physiology and Science

- Dairy Farming
- Energy Agriculture
- Environmental Hydrology
- Fertilization, Breeding and Protection of Plants
- Horticulture
- Husbandry Science
- Irrigation Management
- Modelling of Crop and Animal Systems
- Organic Agriculture
- Plant Breeding Genetics and Pathology
- Plant Nutrition
- Plant Protection
- Security of Genetically Modified Agricultural Organisms
- Soil Science and Soil Land Use
- Soil-Plant Relationships
- Sustainable Rural Development
- Theoretical Production Ecology

We are also interested in: 1) Short Reports—2 to 5 pages where the paper is intended to present either an original idea with theoretical treatment or preliminary data and results; 2) Book Reviews—Comments and critiques of recently published books in agricultural sciences.

Notes for Intending Authors

Submitted papers should not have been previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. All papers are refereed through a peer review process. For more details about the submissions, please access the website.

Website and E-Mail

https://www.scirp.org/journal/as E-mail: as@scirp.org

What is SCIRP?

Scientific Research Publishing (SCIRP) is one of the largest Open Access journal publishers. It is currently publishing more than 200 open access, online, peer-reviewed journals covering a wide range of academic disciplines. SCIRP serves the worldwide academic communities and contributes to the progress and application of science with its publication.

What is Open Access?

All original research papers published by SCIRP are made freely and permanently accessible online immediately upon publication. To be able to provide open access journals, SCIRP defrays operation costs from authors and subscription charges only for its printed version. Open access publishing allows an immediate, worldwide, barrier-free, open access to the full text of research papers, which is in the best interests of the scientific community.

- · High visibility for maximum global exposure with open access publishing model
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience





Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org