



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 DiakariaCentre National de Recherche Agronomique (CNRA),

Cote d'Ivoire

Prof. Oguz Dolgun Adnan Menderes University, Türkiye

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 Lorenzini University of Parma, Italy

Dr. Mahmoud OkashaAgricultural 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



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

Table of Contents

Volume 14 Number 7	July 2023
Yield and Pest Performance of High-Temperature Tolerant Tomato (Lycopersicon esculentum) Lines for Year-Round Tomato Production in Bangladesh	
A. Quamruzzaman, L. Akter, F. Islam	855
Struvite Effects on Rice Growth and Productivity under Flood-Irrigation in the Greenhouse	
D. D. Lunga, K. R. Brye, T. L. Roberts, C. G. Henry, M. A. Evans-White, D. J. Lessner	864
Evaluation of Yield and Yield Components of Some Cowpea (Vigna unguiculata (L.) Walp) Genotypes in Forest and Transitional Zones of Ghana	
K. Atakora, M. E. Essilfie, K. Agyarko, H. K. Dapaah, K. G. Santo	878
Effects of Variety and Planting Density on Mung Bean Eco-Physiology and Yield in the Southeastern US	
J. Christian, D. F. Hui, N. Kaur, C. Kieffer, S. Moghaddam, A. Touray, J. Borlay, M. W. Blair, S. R. Mentreddy, F. Tegegne, P. Illukpitiya	898
Machine Learning Mapping of Soil Apparent Electrical Conductivity on a Research Farm in Mississippi	
R. S. Fletcher	915
Evaluation of Different Substrates Compositions for Acclimatization of Tissue Culture Taro Plantlets in a Propagator	
E. B. Manju, V. Y. Fornkwav, I. B. Bame, R. A. Tima	925
Yield and Grain Quality Response of Spring Wheat Varieties to Irrigation and Fertility Management	
N. Chaiwong, C. Prom-u-thai, M. Ostlie	939
Climate Impact on the Productivity of Sugarcane Varieties in Ferke1 Industrial Plantations	
S. Dosso, F. Yoroba, B. Kouassi, K. Kouadio, A. Diawara, A. Kobea, A. Diedhiou	954

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 © 2023 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 © 2023 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

Dr. Coulibaly Noupe Dis 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

E-mail: as@scirp.org

- 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

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