



# 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**

**Prof. Said Elshahat Abdallah** Kafrelsheikh University, Egypt

**Prof. Abdulrasoul Alomran** King Saud University, Saudi Arabia

**Dr. Aziz Aziz**University of Reims, France

Prof. Nacer Bellaloui Crop Genetics Research Unit, USA

**Prof. Oguz Dolgun** Adnan Menderes University, Turkey

Prof. Carlo Duso University of Padua, Italy

Prof. Dionisios Gasparatos Aristotle University of Thessaloniki, Greece

Prof. Ghanshyam D. Heda Mississippi University for Women, USA

Prof. Hongqing Hu Huazhong 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

**Prof. Junhua Peng** Chinese Academy of Sciences, China

Prof. Elena Petrushkina Russian Academy of Sciences, Russia

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

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. 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 12	Number 2	February 2021
Physi-Chemical	Property Research of Polysacch	arides from Pomegranate Flowers
L. X. Peng, Y. Z.	Huang, W. Tan, Z. W. Wei, L. H. Zh	ang59
		Biotic Motivation Coincide Biofertilizers d Yield Production and Quality
T. E. S.A, E. S. S.	A	69
· ·	•	oupling Law and Regulation Techniques et ( <i>Setaria italica</i> (L.) P. Beauv.) Parental Lines
Q. Li, D. Liu, G.	X. Ma, Y. H. Shi, Y. J. Cui, X. D. Zha	ng, S. Y. Li, Z. L. Liu84
	ay Time Anthesis Warming on d Sites of South-Western Punja	
N. K. Dhillon, S.	K. Mishra, H. Singh	112
Does the Applica Increase Yield?	ation of a Fungicide after a Herl	picide Reduce Soybean Injury and
N. Soltani, C. Sh	ropshire, P. H. Sikkema	
	Nucleus Sterility Candidate Ge echnique in Sweet Pepper Sterile	•
Y. N. Meng, L. B	. Yan, H. X. Zhang, Y. O. Fan	

### Agricultural Sciences (AS)

#### **Journal Information**

#### **SUBSCRIPTIONS**

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

#### Subscription rates:

Print: \$79 per copy.

To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

#### **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 © 2021 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 @ 2021 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

Prof. Said Elshahat Abdallah Prof. Abdulrasoul Alomran Dr. Aziz Aziz Prof. Nacer Bellaloui

Prof. Nacer Bellalor Prof. Oguz Dolgun Prof. Carlo Duso

Prof. Dionisios Gasparatos

Prof. Ghanshyam D. Heda Prof. Hongqing Hu Prof. Chung L. Huang Prof. Chao Liang

Prof. Giulio Lorenzini Prof. Junhua Peng Prof. Elena Petrushkina Prof. Maria Cristina Marcucci Ribeiro

Prof. Uttam Saha

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