

ISSN: 2156-8553

Volume 10, Number 6, June 2019



Agricultural Sciences



ISSN: 2156-8553



www.scirp.org/journal/as

Journal Editorial Board

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

<http://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

Dr. 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

Anhanguera-Uniban University, 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. Wenjun Zhang

Sun Yat-sen University, China

Table of Contents

Volume 10 Number 6

June 2019

Improve the Competitiveness and Value of Rice Exports of the Mekong Delta Provinces	
N. T. T. Vi, T. J. Liu.....	707
Turmeric and Vitamin E on the Performance and Quality of Eggs from White Layers	
C. Laganá, E. S. P. B. Saldanha, J. R. Sartori, E. Gonzales, R. L. Luciano, G. Zanatta, V. B. Fascina.....	720
Optimizing Aircraft Utilization for Herbicide Application by Evaluation of Herbicide Spray Drift in West Bank Berbice Guyana South America	
R. Chablall, R. Persaud, R. Chandranauth, S. Chibi, G. Ramnarain, S. Amichand, C. Bullen.....	727
Growth and Development of Bell Peppers Submitted to Fertilization with Biochar and Nitrogen	
W. B. de Lima, A. R. Cavalcante, B. F. Bonifácio, A. A. R. da Silva, L. D. de Oliveira, R. F. A. de Souza, L. H. G. Chaves.....	753
Applying Rhizobacteria on Maize Cultivation in Northern Benin: Effect on Growth and Yield	
O. Amogou, G. Dagbénonbakin, N. A. Agbodjato, P. A. Noumavo, K. V. Salako, M. Y. Adoko, R. G. Kakai, A. Adjanohoun, L. Baba-Moussa.....	763
Visualization of Chlorophyll Content Distribution in Apple Leaves Based on Hyperspectral Imaging Technology	
X. Wen, X. C. Zhu, R. Y. Yu, J. L. Xiong, D. S. Gao, Y. M. Jiang, G. J. Yang.....	783
Modeling of the Leaf Area of <i>Maytenus obtusifolia</i> Mart. from Scanned Images	
V. de S. Oliveira, K. T. H. dos Santos, A. P. B. Pinheiro, G. P. Santos, J. S. H. Santos, H. Chisté, O. Schmildt, S. D. Arantes, M. P. Czepak, A. A. Fernandes, E. R. Schmildt.....	796
Some Thoughts on Using Biochar to Improve Albic Soil	
D. W. Yin, X. H. Guo, J. B. Wang, Y. W. Xue, M. H. Liu, H. Y. Li.....	807
Assessment of Land-Use and Land Cover Change Effect on Melka Wakena Hydropower Dam in Melka Wakena Catchment of Sub-Upper Wabe-Shebelle Watershed, South Eastern Ethiopia	
H. Hayicho, M. Alemu, H. Kedir.....	819

Agricultural Sciences (AS)

Journal Information

SUBSCRIPTIONS

The *Agricultural Sciences* (Online at Scientific Research Publishing, 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 © 2019 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 © 2019 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.

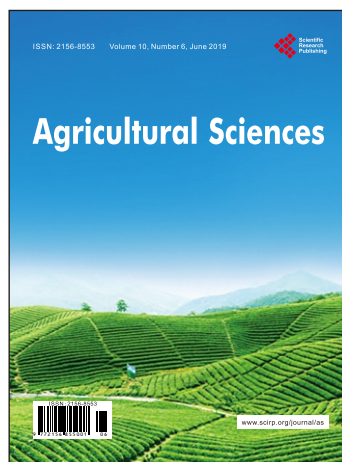
Disclaimer of liability

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



Agricultural Sciences

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

<http://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
Dr. 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. 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
- Agrolgy
- 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

<http://www.scirp.org/journal/as>

E-mail: as@scirp.org

