

ISSN: 2158-2742 Volume 14, Number 5, May 2023



American Journal of Plant Sciences



<https://www.scirp.org/journal/ajps>

Journal Editorial Board

ISSN: 2158-2742 (Print) ISSN: 2158-2750 (Online)

<https://www.scirp.org/journal/ajps>

Editor-in-Chief

Dr. Ricardo Santillán Mendoza

CIRGOC-Campo Experimental Ixtacuaco, Mexico

Honorary Editor-in-Chief

Prof. Fernando José Cebola Lidon

Universidade Nova de Lisboa, Portugal

Associate Editor-in-Chief

Prof. Patrick Martin

University of Artois, France

Editorial Board

Prof. Ibromkhim Y. Abdurakhmonov

Academy of Sciences of Uzbekistan, Uzbekistan

Dr. Haiam Morsy Aboul-Ela

Marine Biotechnology and Natural Products Lab, Egypt

Prof. Ashok Ahuja

Indian Institute of Integrative Medicine, India

Dr. Quamruzzaman AKM

Bangladesh Agriculture Research Institute, Ministry of Agriculture, Govt. of Bangladesh, Bangladesh

Dr. Rishi Aryal

North Carolina State University, USA

Prof. R. Aswati Nair

Central University of Kerala (CUK), India

Prof. Mehmet Emin Aydin

Selcuk University, Türkiye

Dr. Dharminder Bhatia

Punjab Agricultural University, India

Prof. Ramesh Buyyarapu

Dow AgroSciences, USA

Dr. Santiago Domínguez Monge

Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias, Mexico

Dr. Salah El-Sayed El-Hendawy

Suez Canal University, Egypt

Prof. Susana Raquel Feldman

Universidad Nacional de Rosario, Argentina

Prof. Kunshan Gao

Xiamen University, China

Prof. Li-Zhi Gao

Chinese Academy of Sciences, China

Dr. Jiahuai Hu

University of Florida, USA

Dr. Sayed Hussain

Abdul Wali Khan University Mardan, Pakistan

Dr. S. Ahmed John

Jamal Mohamed College (Autonomous), India

Dr. Nirmal Joshee

Fort Valley State University, USA

Dr. Chandra Prakash Kala

Indian Institute of Forest Management, India

Dr. Pritam Kalita

ICAR-Indian Agricultural Research Institute, India

Prof. S. M. Paul Khurana

Amity University, India

Prof. Kyoung-Woong Kim

Gwangju Institute of Science and Technology, South Korea

Prof. Stanislav Kopriva

John Innes Institute, UK

Dr. Süleyman Korkut

Duzce University, Türkiye

Dr. Jagdish Kumar

South Tukoganj, India

Dr. Vikas Kumar

Banaras Hindu University, India

Dr. Siva Prasad Kumpatla

Dow AgroSciences LLC, USA

Prof. Din-Pow Ma

Mississippi State University, USA

Prof. Salah El Deen M Mahmoud

Azher University, Egypt

Prof. Virginia Susana Martino

Universidad de Buenos Aires, Argentina

Dr. Asim Masood

Aligarh Muslim University, India

Prof. Amitava Mitra

University of Nebraska, USA

Dr. Mara Fernandes Moura

Pesquisador Científico VI, Instituto Agronomico – IAC, Brazil

Dr. Adele Maria Muscolo

University Mediterranea di Reggio Calabria, Italy

Prof. P. K. Nagar

Institute of Himalayan Bioresource Technology, India

Dr. Lakshmi Narayanan

Mississippi State University, USA

Dr. Silvia Pampana

University of Pisa, Italy

Prof. Shashi Pandey

Banaras Hindu University (BHU), India

Prof. Maria Papafotiou

Agricultural University of Athens, Greece

Prof. Antonios Philippoussis

National Agricultural Research Foundation, Greece

Dr. Hadi Pirasteh-Anosheh

National Salinity Research Center (NSRC), Iran

Dr. Hamidou F. Sakhanokho

USDA-ARS, Thad Cochran Southern Horticultural Laboratory, USA

Prof. R. R. Sharma

Indian Agricultural Research Institute, India

Prof. Gyan S. Shekhawat

Jai Narain Vyas University, India

Prof. Toshiyuki Shibata

Mie University, Japan

Dr. Toshiro Shigaki

The University of Tokyo, Japan

Dr. Muhammad Irfan Siddique

Seoul National University, South Korea

Prof. Gopal Shankar Singh

Banaras Hindu University, India

Prof. Rajbir Singh

Directorate of Water Management, India

Dr. Daryush Talei

Medicinal Plants Research Center, Shahed University, Iran

Dr. Te-Ming (Paul) Tseng

Mississippi State University, USA

Dr. Kailas Wasewar

Visvesvaraya National Institute of Technology, India

Dr. Katherine A. Witrick

University of Florida, USA

Prof. Tianzhen Zhang

Nanjing Agricultural University, China

Prof. Wenjun Zhang

Sun Yat-sen University, China

Table of Contents

Volume 14 Number 5

May 2023

Palyno-Morphological Study of Allergenic Flora of Samarkand, Uzbekistan	
Z. Jumayeva, A. Nozimova.....	533
Taxonomic Analysis and Ecological Features of the Algal Flora of the Water Bodies of the West Zarafshan Range	
B. S. Dustov, Y. S. Tashpulatov.....	542
Growth of Four Varieties of <i>Coffea arabica</i> L. Biofertilized with <i>Rhizophagus intraradices</i> and <i>Azospirillum brasilense</i> in Nursery	
Z. C. Anzueto-Herón, J. F. Aguirre-Medina, J. F. Aguirre-Cadena, C.-I. Pedro	552
Diversity, Chemical Compositions and Beneficial Effects of Some Spices and Aromatic Leaves Consumed in Benin and in the World: Critical Review	
C. Vikou, J. Semassa, Z. Diaconeasa, G. Roko, M. Tohoyessou, D. Dah-Nouvlessounon, H. Sina, A. Stanilă, L. Baba-Moussa.....	569
Yield of Roselle (<i>Hibiscus sabdariffa</i> L.) as Influenced by Manure and Nitrogen Fertilizer Application	
J. Yirzagla, P. Quandahor, O. A. Amoako, L. A. Akologo, J. B. Lambon, A.-W. M. Imoro, K. G. Santo, O. A. Akanbelum.....	599
Analysis of the Distribution of <i>Tulipa fosteriana</i> and <i>Tulipa ingens</i>. The Importance of Protecting Wild Plants, in Particular Tulips All over the World	
S. R. Shukrullo Qizi, D. D. Burxonovich, K. K. Kudratovich, U. Z. Iskandarovna, O. S. Gulomjon Qizi, N. G. Komiljon Qizi.....	613

American Journal of Plant Sciences (AJPS)

Journal Information

SUBSCRIPTIONS

The *American Journal of Plant Sciences* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$79 per issue.

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: ajps@scirp.org

Call for Papers



American Journal of Plant Sciences

ISSN: 2158-2742 (Print) ISSN: 2158-2750 (Online)

<https://www.scirp.org/journal/ajps>

American Journal of Plant Sciences (AJPS) is a peer reviewed international journal dedicated to the latest advancement in related areas. The goal of this journal is to keep a record of the state-of-the-art research and to promote study, research and improvement within its various specialties.

Subject Coverage

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

- Agricultural Botany
- Agronomy
- Bryology
- Dendrochronology
- Economic Botany
- Ethnobotany
- Forestry
- Horticulture
- Integrated Pest Management and Integrated Resistant Management
- Lichenology
- Medicinal Plants
- Paleobotany
- Palynology
- Phycology
- Phylogenetics and Evolution
- Phytochemistry
- Phytopathology
- Plant Anatomy
- Plant Based Biofuels and Bioenergy
- Plant Biotechnology and Tissue Culture
- Plant Breeding
- Plant Cytogenetics and Cytology
- Plant Ecology
- Plant Genetic Resources and Databases
- Plant Genetics
- Plant Genomes, Bioinformatics and Genomics
- Plant Host-Pathogen Interactions
- Plant Molecular Biology and Evolution
- Plant Morphology
- Plant Nutrition
- Plant Physiology
- Plant Polyploidy
- Plant Protection
- Plant Proteomics and Metabolomics
- Plant Systematics
- Transgenic Crops and Their Products

We are also interested in short papers (letters) that clearly address a specific problem, and short survey or position papers that sketch the results or problems on a specific topic. Authors of selected short papers would be invited to write a regular paper on the same topic for future issues of **AJPS**.

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/ajps>

E-mail: ajps@scirp.org