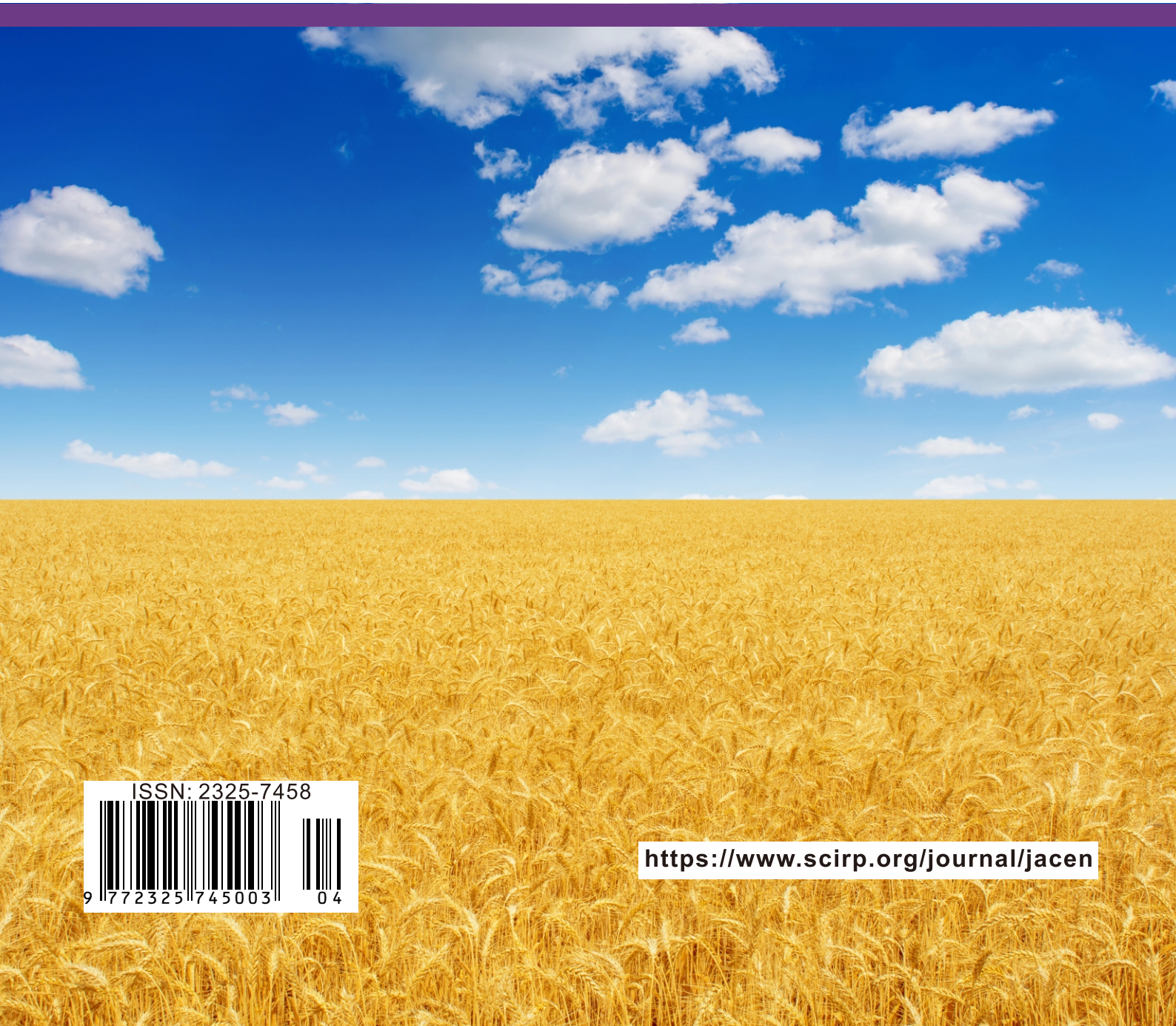


ISSN: 2325-7458 Volume 13, Number 4, November 2024



Journal of Agricultural Chemistry and Environment



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

Journal Editorial Board

ISSN Print: 2325-7458 ISSN Online: 2325-744X
<https://www.scirp.org/journal/jacen>

Editor-in-Chief

Prof. Ravindra Pogaku Cornell University, USA

Associate Editor

Prof. C. P. Huang University of Delaware, USA

Editorial Board

Prof. Muhammad Aslam Ali Bangladesh Agricultural University, Bangladesh

Dr. Ki Chang An PTRL West, USA

Dr. Engeda Dessalegn Augchew Hawassa College of Education, Ethiopia

Prof. Md. Abdullahil Baque Sher-e-Bangla Agricultural University, Bangladesh

Dr. Il Kyu Cho University of Hawaii, USA

Prof. Nasrallah M. Deraz National Research Centre, Egypt

Prof. Bernard R. Glick University of Waterloo, Canada

Prof. Adedeji Oludare Hakeem Federal University of Agriculture, Nigeria

Prof. Kwang Cheol Jeong University of Florida, USA

Dr. Min Gi Kim National Academy of Agricultural Science, South Korea

Dr. Na-Hyung Kim Wonkwang University, South Korea

Prof. Pil Joo Kim Gyeongsang National University, South Korea

Prof. Christopher Koroneos University of Western Macedonia, Greece

Dr. Hari B. Krishnan United States Department of Agriculture, USA

Dr. Jeong Wook Kwon Mississippi State University, USA

Prof. Sanghyun Lee Chung-Ang University, South Korea

Dr. Luisa Molari University of Bologna, Italy

Prof. Dimitrios P. Nikolelis University of Athens, Greece

Prof. Soo Hyun Park Chonnam National University, South Korea

Prof. G. S. Singh Banaras Hindu University, India

Prof. Sufardi Sufardi Universitas Syiah Kuala, Indonesia

Dr. Tatsuro Suzuki National Agriculture and Food Research, Japan

Dr. Meththika S. Vithande Institute of Fundamental Studies, Sri Lanka

Table of Contents

Volume 13 Number 4

November 2024

Health Risk Assessment of Exposure to Some Heavy Metals from Roasted Pork and Goat Meats Sold in Ishaka-Bushenyi Municipality, Uganda

B. Nambowa, J. O. Aruwa, A. A. Adepoju, O. P. Asanga, I. O. Sanusi 325

Evaluation of Pesticidal Activities of Lignans Isolated from *Piper cubeba* Fruits

V. P. Ribeiro, J. Bajsa-Hirschel, P. Tamang, A. S. Estep, J. K. Bastos, K. M. Meepagala..... 341

Agronomic Performances of Manure Composts in Simplified Soilless Tomato Cultivation

A. H. T. Biékéré, S. J. Gogbeu, G. J. O. Atsin, S. H. Kimou, K. A. Yao, B. T. Tie, D. O. Dogbo 355

Chlorella Residue Functions as a Bio-Stimulant to Promote Plant Growth and Improve Soil Fertility

A. Okazaki, T. Mizoguchi, Z. Islam, Q. T. Tran, M. Kubo..... 373

Nano-Chitosan Loaded N Application for Improving Wheat Plants Yield: Impacts on Soil Nutrient Availability

T. S. A. Salem, E. M. Elskhariy, A. M. Zayed, A. I. Mohamed, N. A. Mahgoub 384

Sorghum Conservation Techniques in Three Agro-Climatic Zones and Their Impact on Food Security in Burkina Faso

S. Nebié, F. Hama-Ba, B. Nebié, R. Kaboré, D. Konaté, S. Bougma, A. Savadogo..... 396

Journal of Agricultural Chemistry and Environment (JACEN)

Journal Information

SUBSCRIPTIONS

The *Journal of Agricultural Chemistry and Environment* (Online at Scientific Research Publishing, <https://www.scirp.org/>) is published quarterly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 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 © 2024 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 © 2024 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: jacen@scirp.org



Journal of Agricultural Chemistry and Environment

ISSN Print: 2325-7458 ISSN Online: 2325-744X

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

The Journal of Agricultural Chemistry and Environment (JACEN) is an official journal published quarterly in February, May, August and November. It has been launched by the Korean Society of Environmental Agriculture. JACEN publishes researches on all aspects dealing with chemical, biological, and physical processes affecting the environmental changes in agriculture. JACEN publishes original papers including but not limited to the following fields:

Subject Coverage

- Agricultural Bioresource Technology
- Agricultural Chemistry
- Agricultural Composting
- Agricultural Environment
- Agricultural Microbiology
- Agrochemicals
- Bioremediation
- Crop Protection and Physiology
- Soil Science
- Soil-plant Relationships
- Sustainable Agriculture

We are also interested in: Case series, Case reports, and Short communications.

Notes for Intending Authors

JACEN welcomes original research articles, reviews, and short communications with a maximum of 6, 10, and 2 printed pages, respectively. For more information to prepare manuscript, please see Manuscript Preparation described in the Guidelines.

Website and E-Mail

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

E-mail: jacen@scirp.org