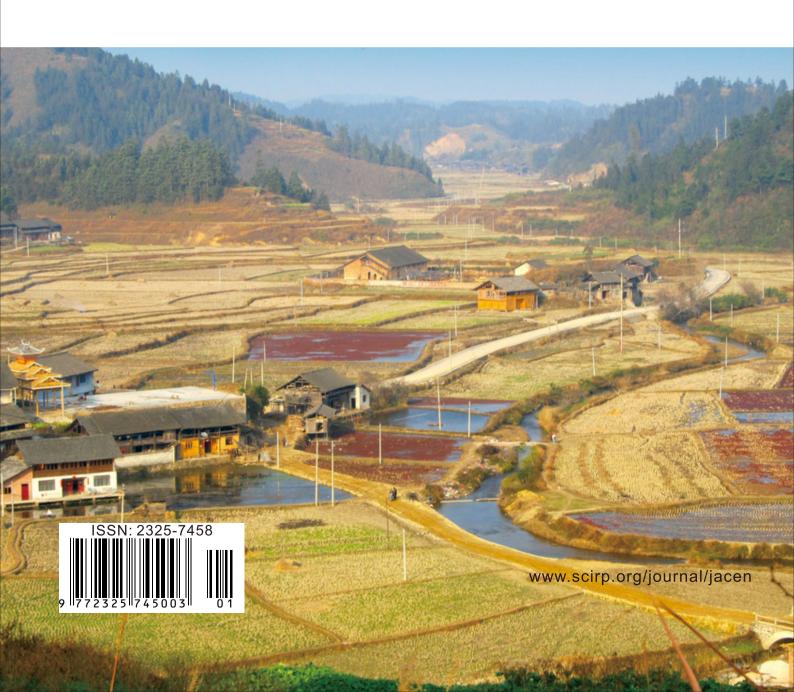




# Journal of Agricultural Chemistry and Environment



# **Journal Editorial Board**

http://www.scirp.org/journal/jacen

.....

#### **Editor in Chief**

**Prof. Sun Chul Kang** Daegu University, South Korea

#### **Executive Editor in Chief**

**Prof. In Seon Kim** Chonnam National University, South Korea

#### **Editorial Board**

**Dr. Ki Chang An** PTRL West, USA

**Prof. Kwang Hyun Baek** Youngnam University, South Korea

**Prof. Hee-Ra Chang** Graduate School of Hoseo University, South Korea

**Dr. Il Kyu Cho**University of Hawaii, USA

**Prof. Xiaomin Dou** Beijing Forestry University, China

**Prof. A.M. Abd El-Aty** Cairo University, Egypt

Prof. Bernard Glick University of Waterloo, Canada

**Prof. Kwang Cheol Jeong** University of Florida, USA

**Prof. Pil Joo Kim** Gyeongsang National University, South Korea

Prof. Sun Ju Kim Chungnam National University, South Korea

Prof. Yong In Kuk Sunchun National University, South Korea

**Dr. Jeong Wook Kwon** Mississippi State University, USA

**Prof. Sanghyun Lee** Chung-Ang University, South Korea

**Prof. Yong Sik Ok**Kangwon National University, South Korea

**Prof. Soo Hyun Park** Chonnam National University, South Korea

**Dr. Tatsuro Suzuki** National Agriculture and Food Research, Japan

**Dr. José Luis Tadeo**National Institute for Agricultural and Food Research and Technology, Spain

Dr. Methika Vithande Institute of Fundamental Studies, Srilanka

Vol.1, No.1, 1-47 (2012) JACEN

## **TABLE OF CONTENTS**

# Volume 1, Number 1, November 2012

Heavy metal chemistry in soils received long-term application of organic wastes	
SI. Kwon, YA. Jang, KH. Kim, GB. Jung, MK. Kim, H. Hwang, MJ. Chae, SC. Hong, KH. So, SG. Yun, KR. Kim.	1
Residue patterns of buprofezin and teflubenzuron in treated peaches	
JY. Yoon, JH. Park, YH. Han, KS. Lee.	10
Determination of phytosterols in <i>Oryza sativa</i> L. cultivars by liquid chromatography atmospheric chemical ionization time-of-flight mass spectrometer (LC-APCI-TOF-MS) coupled with a modified QuEChERS method	
S. R. Lee, D. C. Yun, S. H. Lee, S. Y. Yang, I. S. Kim.	15
Biotransformation of endosulfan by the tiger worm, Eisenia fetida	
BS. Park, JH. Yoo, JH. Kim, JE. Kim, SE. Lee.	20
Analysis of apigenin in <i>Blumea balsamifera</i> Linn DC. and its inhibitory activity against aldose reductase in rat lens	
D. G. Lee, SY. Mok, C. Choi, E. J. Cho, H. Y. Kim, S. Lee.	28
Production of reactive oxygen species by freezing stress and the protective roles of antioxidant enzymes in plants	
KH. Baek, D. Z. Skinner	34
In vitro antagonistic potential of Streptomyces sp. AM-S1 against plant and human pathogens  K. Sowndhararajan, S. C. Kang.	41

**Journal of Agricultural Chemistry and Environment (JACEN)** 

**Journal Information** 

#### SUBSCRIPTIONS

The *Journal of Agricultural Chemistry and Environment* (Online at Scientific Research Publishing, <a href="www.SciRP.org">www.SciRP.org</a>) is published quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$39 per issue.

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@2012 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

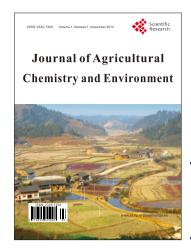
Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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 assumes 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



# International Journal of Otolaryngology and Head & Neck Surgery

http://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

All manuscripts submitted to IJOHNS must be previously unpublished and may not be considered for publication elsewhere at any time during IJOHNS's review period. Additionally, accepted manuscripts will immediately appear online followed by hard copy. Topics to be covered in this journal include the following aspects but are not limited to:

- Agricultural Environment
- Agricultural Chemistry
- Agricultural Ecology
- Agricultural Microbiology
- Agrochemicals
- Agricultural Bioresource Technology
- Agricultural Composting
- Bioremediation
- Climate Changing to Agriculture

- Crop Protection and Physiology
- Environmentally-friendly Agriculture
- Integrated Pest Management
- Organic Farming
- Plant Nutrition
- Soil-plant Relationships
- Soil Science
- Risk Assessment of Agrochemicals 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

http://www.scirp.org/journal/jacen E-mail: jacen@scirp.org

# **TABLE OF CONTENTS**

Volume 1 Number 1	November 2012
Heavy metal chemistry in soils received long-term	application of organic wastes
SI. Kwon, YA. Jang, KH. Kim, GB. Jung, MK. Kim	, H. Hwang, MJ. Chae, SC. Hong,
KH. So, SG. Yun, KR. Kim	1
Residue patterns of buprofezin and teflubenzuror	in treated peaches
JY. Yoon, JH. Park, YH. Han, KS. Lee	
Determination of phytosterols in <i>Oryza sativa</i> L. c	ultivars by liquid chromatography
atmospheric chemical ionization time-of-flight	mass spectrometer
(LC-APCI-TOF-MS) coupled with a modified Q	uEChERS method
S. R. Lee, D. C. Yun, S. H. Lee, S. Y. Yang, I. S. Kim	
Biotransformation of endosulfan by the tiger wor	
BS. Park, JH. Yoo, JH. Kim, JE. Kim, SE. Lee	
Analysis of apigenin in Blumea balsamifera Linn I	OC. and its inhibitory activity
against aldose reductase in rat lens	
D. G. Lee, SY. Mok, C. Choi, E. J. Cho, H. Y. Kim, S. Lee	
Production of reactive oxygen species by freezing	stress and the protective roles
of antioxidant enzymes in plants	
KH. Baek, D. Z. Skinner	
In vitro antagonistic potential of Streptomyces sp.	AM-S1 against plant and human
pathogens	
K. Sowndhararajan, S. C. Kang	41