

ISSN: 2152-2197

Volume 8, Number 12, November 2017



# Journal of Environmental Protection



ISSN: 2152-2197



[www.scirp.org/journal/jep](http://www.scirp.org/journal/jep)

# Journal Editorial Board

ISSN: 2152-2197 (Print), 2152-2219 (Online)

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

---

## Editors-in-Chief

**Prof. Thangarasu Pandiyan**  
**Prof. Qingren Wang**

National Autonomous University of Mexico (UNAM), Mexico  
University of Florida, USA

## Editorial Board

**Prof. Josh T. Ackerman**  
**Dr. Nanjappa Ashwath**  
**Prof. Jayajit Chakraborty**  
**Prof. Shuguang Deng**  
**Prof. Larry Eugene Erickson**  
**Prof. Ludmila A. Golovleva**  
**Prof. Chin-Pao Huang**  
**Prof. Madan Kumar Jha**  
**Prof. Ganesh Raj Joshi**  
**Prof. Rameshwar S. Kanwar**  
**Prof. Hyun-Joong Kim**  
**Prof. Raghava R. Kommalapati**  
**Prof. Ashok Kumar**  
**Prof. Robert Li**  
**Prof. Roberto Manfredi**  
**Prof. Krishna Mazumdar**  
**Prof. Jiangming Mo**  
**Prof. Subhash C. Mojumdar**  
**Prof. Saied Mostaghimi**  
**Dr. Shaibal Mukerjee**  
**Prof. Pucheng Pei**  
**Prof. Alexey V. Polonikov**  
**Dr. Muneer Aziz Mohammed Saleh**  
**Dr. Mohammad Nahid Siddiqui**  
**Prof. Gilbert Sigua**  
  
**Prof. Emilson Caputo Delfino Silva**  
**Prof. Hongwen Sun**  
**Prof. Xiangjun Tian**  
**Prof. Cornelia Vasile**  
**Prof. Qingwei Yang**  
**Dr. Ierotheos Zacharias**

US Geological Survey, USA  
Central Queensland University, Australia  
University of South Florida, USA  
New Mexico State University, USA  
Kansas State University, USA  
Russian Academy of Sciences, Russia  
University of Delaware, USA  
Indian Institute of Technology Kharagpur, India  
United Nations Center for Regional Development (UNCRD), Japan  
Iowa State University, USA  
Seoul National University, South Korea  
Prairie View A&M University, USA  
University of Toledo, USA  
United States Department of Agriculture-Agricultural Research Service, USA  
University of Bologna, Italy  
Indian Statistical Institute, India  
Chinese Academy of Sciences, China  
University of Guelph, Canada  
Virginia Polytechnic Institute and State University, USA  
US Environmental Protection Agency, USA  
Tsinghua University, China  
Kursk State Medical University, Russia  
University Teknologi Malaysia (UTM), Malaysia  
King Fahd University of Petroleum & Minerals, Saudi Arabia  
United States Department of Agriculture-Subtropical Agricultural  
Research Station, USA  
Georgia Institute of Technology, USA  
Nankai University, China  
Chinese Academy of Sciences, China  
Laval University, Canada  
Chongqing Jiaotong University, China  
University of Patras, Greece

# Table of Contents

**Volume 8    Number 12**

**November 2017**

## **Heavy Metals Uptake in Maize Grains and Leaves in Different Agro Ecological Zones in Uasin Gishu County**

T. Akenga, V. Sudoi, W. Machuka, E. Kerich, E. Ronoh.....1435

## **Erratum to “Assessment of Uinta Basin Oil and Natural Gas Well Pad Pneumatic Controller Emissions” [Journal of Environmental Protection, 2017, 8, 394-415]**

E. D. Thoma.....1445

## **Rising Thyroid Cancer Incidence Proximate to a New York City-Area Nuclear Power Plant**

J. Mangano, J. Sherman.....1446

## **Comparative Analysis of Biogas Estimation Models versus *In-Situ* Measurement in a Landfill Site in the State of Mexico, Mexico**

P. E. Escamilla-García, M. E. Tavera-Cortés, F. Pérez-Soto.....1460

## **Physico-Chemical and Microbiological Assessment of Organic Pollution in Plain Salty Lakes from Protected Regions**

V. Lazar, C. Curutiu, D. Lia-Mara, A. Holban, I. Gheorghe, F. Marinescu,  
M. Ilie, E. Marcu, A. Ivanov, D. Dobre, M. C. Chifiriuc.....1474

## **The Impact of Water Price on the Financial Sustainability of the Palestinian Water Service Providers**

A. Murrar, I. Awad, A. F. Hasan, E. Yaqob, I. Barghothi, A. Sadaqa, S. Samhan, A. Tamimi.....1490

## **Development of Global Cropland Agreement Level Analysis by Integrating Pixel Similarity of Recent Global Land Cover Datasets**

A. D. Sakti, W. Takeuchi, K. Wikantika.....1509

## **Public-Private Partnership Arrangement in *In-Situ* Housing for Slum Rehabilitation in Yenagoa, Bayelsa State, Nigeria**

A. F. Ebakpa, A. E. Gobo, S. A. Ngah, T. K. S. Abam.....1530

**Evaluating and Improving the Effectiveness of Vehicle Inspection and Maintenance Programs: A Cost-Benefit Analysis Framework**

Y. Li.....1541

**Evaluation of the Quality of Household Waste Leachate Treated by Settling Ponds at the Ouagadougou Waste Treatment and Valorization Center**

V. Demakoye, K. Martine, O. Yacouba, G. Seydou, S. Siméon.....1567



## Journal of Environmental Protection (JEP)

ISSN: 2152-2197 (Print) ISSN: 2152-2219 (Online)

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

JEP is an international refereed journal dedicated to the latest advancement of Environmental Protection. 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.

### Editors-in-Chief

**Prof. Thangarasu Pandiyan**

National Autonomous University of Mexico (UNAM), Mexico

**Prof. Qingren Wang**

University of Florida, USA

### Subject Coverage

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

#### ● Air pollution and air quality

Air pollution monitoring and modeling  
Air pollution prevention and control  
Air quality measurement and management  
Sources of air pollution  
Urban/indoor air pollution and control

#### ● Environmental pollution and public health

Chemical pollutants and its effects on health  
Effects of air pollution on public health  
Food and drug safety control  
Global climate changes and human health  
Land pollution and its effects on health

#### ● Ecosystem restoration, toxicology and sustainability

Ecosystem restoration  
Environmental toxicology  
Greenhouse gas emission monitoring and solutions  
Hazardous materials management  
Radiation safety in atomic industry  
Solid waste management  
Sustainable development of environment and ecosystem

#### ● Hydrology and water quality

Ground water pollution control  
Hydrobiology and water pollution  
Methods of monitoring water quality  
Modeling and measuring of water pollution

#### ● Wastewater treatment and utilization

New wastewater treatment technologies  
New water purification technologies  
Purification of drinking-water supplies  
Treatment, disposal and discharge of wastewater

#### ● Environment assessment and policy

Environmental impact assessment  
Environmental policy  
Risk assessment of contaminated environments  
Water resources and quality assessment  
Water resource protection and sustainable use

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 the *JEP*.

### 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/jep>

E-mail: [jep@scirp.org](mailto:jep@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: <http://www.scirp.org>**

**Subscription: [sub@scirp.org](mailto:sub@scirp.org)**

**Advertisement: [service@scirp.org](mailto:service@scirp.org)**