

# Open Journal of Ecology



ISSN: 2162-1985



9 772162 198000 13

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

# Journal Editorial Board

ISSN: 2162-1985 (Print) ISSN: 2162-1993 (Online)

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

---

## Editor-in-Chief

**Prof. Eyuaem Abebe**

Elizabeth City State University, USA

## Editorial Board

**Dr. Mikel A. Becerro**

Spanish Scientific Research Council, Spain

**Dr. Paolo Censi**

University of Palermo, Italy

**Prof. Baoshan Cui**

Beijing Normal University, China

**Prof. Michael B. K. Darkoh**

University of Botswana, Botswana

**Prof. Kartlos J. Kachiashvili**

GC University Lahore, Pakistan

**Dr. Douglas D. Kane**

Defiance College, USA

**Prof. Tasios Karathanasis**

University of Kentucky, USA

**Prof. Weidong Kong**

Chinese Academy of Sciences, China

**Prof. Pascal Laffaille**

Institut National Polytechnique de Toulouse, France

**Dr. Sang Don Lee**

Ewha Womans University, South Korea

**Prof. María R. M. Losada**

Universidade de Santiago de Compostela, Spain

**Dr. Richard Munang**

United Nations Environment Programme, USA

**Dr. Toshiaki Owari**

The University of Tokyo, Japan

**Prof. Francisco J. Rodríguez-Tovar**

University of Granada, Spain

**Prof. George Oliver Rogers**

Texas A&M University, USA

**Prof. Subramanya S. S. Sarma**

National Autonomous University of Mexico, Mexico

**Dr. Victor R. Savage**

National University of Singapore, Singapore

**Prof. Miklas Scholz**

The University of Salford, UK

**Prof. Qianlai Zhuang**

Purdue University, USA

# Table of Contents

**Volume 6    Number 13**

**December 2016**

**Characterization of the Biodegradation of Kasbahs of the Gharb Region (Mehdia and Kenitra Kasbahs, Morocco)**

M. Zaidi, B. Baghdad, S. Chakiri, A. Taleb.....753

**Communication between Two *Lactuca* Species**

A. G. Aguilera, S. Williams, T. Armstrong.....767

# Open Journal of Ecology (OJE)

## Journal Information

### SUBSCRIPTIONS

The *Open Journal of Ecology* (Online at Scientific Research Publishing, [www.SciRP.org](http://www.SciRP.org)) is published monthly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$69 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### SERVICES

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### COPYRIGHT

#### **Copyright and reuse rights for the front matter of the journal:**

Copyright © 2016 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 © 2016 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: [oje@scirp.org](mailto:oje@scirp.org)



# Open Journal of Ecology (OJE)

ISSN: 2162-1985 (Print) ISSN: 2162-1993 (Online)  
<http://www.scirp.org/journal/oje>

**Open Journal of Ecology (OJE)** is an international journal dedicated to the latest advancements in ecology. The goal of this journal is to provide a platform for scientists and academicians all over the world to promote, share, and discuss various new issues and perspectives in diverse areas of ecology and to keep a record of state-of-the-art research.

## Subject Coverage

The journal publishes original papers including but not limited to the following subfields:

- Animal Ecology
- Aquatic Ecosystem
- Autecology
- Biogeochemistry
- Community Ecology
- Cultural Ecology
- Ecological Design
- Ecological Effectiveness
- Ecological Impact of Climate Changes
- Ecosystem Services
- Environmental Ecology
- Evolutionary Ecology
- Human Ecology
- Industrial Ecology
- Landscape Ecology
- Marine Ecology
- Microbial Ecology
- Molecular Ecology
- Physiological Ecology
- Plant Ecology
- Population Ecology
- Resource Valuation
- Terrestrial Ecosystem

We are also interested in: 1) Short Reports—2-5 page papers where an author can either present an idea with theoretical background but has not yet completed the research needed for a complete paper or preliminary data; 2) Book Reviews—Comments and critiques.

## 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/oje> E-mail: [oje@scirp.org](mailto:oje@scirp.org)

