

# Open Journal of Ecology



ISSN: 2162-1985



9 772162 198000 02

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

# Journal Editorial Board

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

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

---

## Editor-in-Chief

**Prof. Baoshan Cui**

Beijing Normal University, China

## Editorial Board

**Prof. Adel A. Abdelmageed**

National Institute of Oceanography and Fisheries, Egypt

**Prof. Eyualem Abebe**

Elizabeth City State University, USA

**Prof. Mohammad Mustapha Abubakar**

Federal University Dutse, Nigeria

**Prof. Esmat Farouk Ali Ahmed**

Taif University, Saudi Arabia

**Dr. Paolo Censi**

University of Palermo, Italy

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

University of Botswana, Botswana

**Prof. Bhupendra Devkota**

Tribhuvan University, Nepal

**Prof. Eutiquio L. Rotaquio Jr.**

Aurora State College of Technology, Philippines

**Prof. Kartlos J. Kachiashvili**

GC University Lahore, Pakistan

**Dr. Douglas D. Kane**

Heidelberg University, USA

**Prof. Tasios Karathanasis**

University of Kentucky, USA

**Dr. Mahamadou Moussa Keita**

Rural Polytechnic Institute for Trainee and Applied Research  
of Katibougou, Mali

**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. Zhongqiang Li**

Hubei University, China

**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

**Dr. Abdel Fattah N. Abd Rabou**

Islamic University of Gaza, Palestine

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

University of Granada, Spain

**Prof. George Oliver Rogers**

Texas A&M University, USA

**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 14    Number 2**

**February 2024**

## **Sea Cucumber Fishery in Aurora, Philippines**

M. C. B. Cañada, M. A. Resueño, E. V. Angara..... 101

## **The Toxic Effects of Strong Chlorin Disinfectant on Mangroves and Emission Thresholds**

Y. N. Yang, N. Zhou, X. Y. Liu ..... 114

## **Community Perception of Riparian Corridors Ecosystem Services and Implications for Environmental Education in Upper Oueme Catchment in Benin, West Africa**

S. M. D. Kinnoumè, S. Adomou, G. N. Gouwakinnou, T. D. Houéhanou..... 125

## **GIS Application in Urban Flood Risk Analysis: Midar as a Case Study**

A. Akallouch, A. Al Mashoudi, M. Ziani, R. Elhani..... 148

## **Nitrogen and Phosphorus Removal from Lake Kinneret Inputs**

M. Gophen ..... 165

# Open Journal of Ecology (OJE)

## Journal Information

### SUBSCRIPTIONS

The *Open Journal of Ecology* (Online at Scientific Research Publishing, <https://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 © 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: [oje@scirp.org](mailto:oje@scirp.org)



# Open Journal of Ecology (OJE)

ISSN: 2162-1985 (Print) ISSN: 2162-1993 (Online)  
<https://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

<https://www.scirp.org/journal/oje> E-mail: [oje@scirp.org](mailto:oje@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



**Scientific  
Research  
Publishing**

**Website: <https://www.scirp.org>**

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

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