

# Journal of Environmental Protection





https://www.scirp.org/journal/jep

# **Journal Editorial Board**

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

https://www.scirp.org/journal/jep

**Editors-in-Chief** 

Prof. Thangarasu Pandiyan Prof. Qingren Wang

# **Editorial Board**

Prof. Josh T. Ackerman **Prof. Ana Alebic-Juretic** Dr. Raslan Alenezi Prof. Taha Alkhamis Dr. Assad Ahmed Al-Thukair Dr. Mohamed Alwaeli **Prof. Lemnuel V. Aragones** Dr. Nanjappa Ashwath Prof. Sandhya Babel **Prof. Shuguang Deng** Prof. Larry Eugene Erickson Prof. Ludmila A. Golovleva **Prof. El-Saved El-Deeb Mehana** Hamouda Dr. Amanda D. Harwood **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. Julio Cesar Marin-Leal** Prof. Krishna Mazumdar **Prof. Jiangming Mo** Prof. Subhash C. Mojumdar **Prof. Saied Mostaghimi** Dr. Shaibal Mukerjee Prof. Carmen N. Moelders aka **Nicole Mölders** Dr. Ed Carlo Rosa Paiva **Prof. Pucheng Pei** Prof. Anjanapura V. Raghu Dr. Muneer Aziz Mohammed Saleh **Prof. Miklas Scholz** Prof. Adriana Soares de Schueler

Prof. Abdulaziz R. Seroji Dr. Mohammad Nahid Siddiqui Prof. Gilbert Sigua Prof. Nguyen Van Song Dr. Sulejman Sulce Prof. Hongwen Sun Prof. Cornelia Vasile Prof. Qingwei Yang Prof. Ierotheos Zacharias Prof. Jinheng Zhang National Autonomous University of Mexico (UNAM), Mexico University of Florida, USA

U.S. Geological Survey, USA University of Rijeka, Croatia College of Technological Studies, Kuwait Mutah University, Jordan Life Sciences Department, King Fahd University of Petroleum, Saudi Arabia Silesian University of Technology, Poland University of the Philippines, Philippines Central Queensland University, Australia Thammasat University, Thailand New Mexico State University, USA Kansas State University, USA Russian Academy of Sciences, Russia Alexandria University, Egypt Alma College, USA 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 Universidad del Zulia, Venezuela Indian Statistical Institute, India Chinese Academy of Sciences, China University of Guelph, Canada Virginia Polytechnic Institute and State University, USA U.S. Environmental Protection Agency, USA Department of Atmospheric Sciences, Geophysical Institute and College of Natural Sciences and Mathematics, University of Alaska Fairbanks, USA Federal University of Goiás, Brazil Tsinghua University, China Department of Chemistry, Jain University, India University Teknologi Malaysia (UTM), Malaysia Lund University, Sweden Department of Architecture and Urbanism, Universidade Federal Rural do Rio de Janeiro, Brazil Umm Al-Qura University, Saudi Arabia King Fahd University of Petroleum & Minerals, Saudi Arabia United States Department of Agriculture-Subtropical Agricultural Research Station, USA Resource Economic Department, Agriculture University of Hanoi, Vietnam Agricultural University of Tirana, Albania Nankai University, China Laval University, Canada Chongqing Jiaotong University, China University of Patras, Greece America-China Culture & Education Foundation, USA



# **Table of Contents**

Volume 14	Number 4	April 2023
Solving the Urban Domestic Waste Classification Dilemma from a Coalitional Game Perspective		
Y. H. Li, X. Q. Liu	, X. J. Wang	
Recent Vegetation Cover Dynamics and Climatic Parameters Evolution Study in the Great Green Wall of Senegal		
B. T. O. Gore, A. A	Aman, Y. Kouadio, OM. Duclos	
Comparative Analysis of Building Rating Systems and Occupant Rating Systems		
R. Al Kady, S. El-Haggar, A. El-Gendy		
Microplastic in th	e Marine Environment of the Indian Ocean	
T. Thiemann		

# Journal of Environmental Protection (JEP) Journal Information

#### SUBSCRIPTIONS

The *Journal of Environmental Protection* (Online at Scientific Research Publishing, <u>https://www.scirp.org/</u>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$79 per issue. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

#### 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: <u>sub@scirp.org</u>

#### COPYRIGHT

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

Copyright © 2023 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 © 2023 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: jep@scirp.org



Journal of **Environmental Protection** 



## Editors-in-Chief

**Prof. Qingren Wang** 

Prof. Thangarasu Pandiyan

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

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

https://www.scirp.org/journal/jep

**Journal of Environmental Protection (JEP)** 

JEP is an international refereed journal dedicated to the latest advancements in 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

## 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

areas.

#### 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

#### 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

- 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
- 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

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 https://www.scirp.org/journal/jep E-mail: jep@scirp.org