

Journal of Geoscience and Environment Protection





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

Journal Editorial Board

ISSN 2327-4336 (Print) ISSN 2327-4344 (Online) https://www.scirp.org/journal/gep

Editor-in-Chief

Prof. Valentine Udoh James

Clarion University of Pennsylvania, USA

.....

Editorial Board

Prof. Sheikh D. Abubakar Dr. Tapos Kumar Acharjee Prof. Avad M. Fadhil Al-Ouraishi Prof. Mokhles K. Azer Prof. Raimundo Jiménez Ballesta Dr. Ali Darvishi Boloorani **Dr. Mukesh Singh Boori** Prof. Jianmin Chen Prof. Elizabeth Gordon Colón Prof. Mohamed Abdelhamid Dawoud Prof. Mohamed Ahmed El-Sadek Prof. Akram Othman Esmail Dr. Silvério Manuel Domingues Figueiredo Prof. Peter G. Flood Prof. Yehia Yehia Hafez **Prof. Benedict Ilozor** Dr. Azizallah Izady Dr. Pathmakumara Jayasingha Prof. M. A. Khalifa Dr. Juan Ma **Dr. Georges Martial Ndzana** Dr. John Paul Odhiambo Obiero **Prof. Reccab Manyala Ochieng Prof. Martins Yusuf Otache Prof. Cheng Heng Pang Prof. Orhan Polat** Prof. Suresh Chand Rai Dr. Gireesh Raman Dr. Marcello Ruberti Dr. Amirhomayoun Saffarzadeh Prof. V. I. Solomatin Dr. Mustafa Din Subari Dr. Samaneh Torbati Dr. Kelestemur Gülüzar Tuna Dr. Rahul Verma **Prof.** Leiming Yin Dr. Xiaochun Zhang **Prof.** Qixing Zhou

Usmanu Danfodiyo University, Nigeria Bangladesh Agricultural University, Bangladesh Tishk International University, Iraq National Research Centre, Egypt Universidad Autonoma de Madrid, Spain University of Tehran, Iran Samara University, Russia Fudan University, China Central University of Venezuela, Venezuela National Water Research Center, Egypt Nuclear Materials Authority, Exploration Division, Cairo, Egypt Salahaddin University, Iraq Quinta do Contador-Estrada da Serra, Tomar, Portugal University of New England, Australia King Abdulaziz University, Saudi Arabia Eastern Michigan University, USA Sultan Qaboos University (SQU), Muscat, Oman University of Colombo, Colombo, Sri Lanka Menoufia University, Egypt Fayetteville State University, USA University of Dschang, Cameroon University of Nairobi, Kenya University of Zambia, Zambia Federal University of Technology, Nigeria University of Nottingham Ningbo China, China Dokuz Eylul University, Türkiye University of Delhi, India Intel Corporation, USA University of Salento, Italy Kyushu University, Japan Russian Academy of Nature Science, Russia Universiti Teknologi Malaysia, Malaysia Urmia University, Urmia, Iran Firat University, Türkiye Botswana International University of Science and Technology, Botswana Chinese Academy of Sciences, China Carnegie Institution for Science, USA Nankai University, China



Table of Contents

Volume 11 Number 6	June 2023
Biomass Prediction Equation for Colophospermum mopane (Mopane) in Botswana	
P. S. Mutakela, J. P. Lepetu, G. Rammotokara, M. Rampart, S. A. Ibrahim	1
Monitoring Wildfires in Thailand: A Case Study of the ECSTAR-TeroSpace's Earth Observation Project	
B. Kanchanarat, U. Akkathai, A. Pimnoo, S. Malisuwan	23
Optimization of Green Space Plant Configuration in Residential Areas of Chongqing Central Business District Based on Green Plot Ratio—A Case Study of Xuhui City Residential Community	g
X. T. Ma, T. H. Yan, Y. Y. Qin, H. L. Wang, Y. F. Yan	
Assessment of Radiation Hazard from External and Internal Exposures at Adham an Surroundings in KSA	ıd
E. M. Al Thobaiti, S. Zeghib, M. M. T. Qutub	50
Study on Remaining Oil at High Water Cut Stage of the Offshore Strong Bottom Wa Reservoir	ıter
J. Tan, Z. Zhang, T. L. Li, J. M. Guo, M. Zhang	76
Accuracy and Precision of Energy Dispersive X-Ray Fluorescence (EDXRF) Analysis Trace and Major Elements in Rock Standard Reference Materials Using Fine Powder	
J. F. Sabouang, J. F. B. Ateba, C. J. G. Shouop, J. Maya, C. T. Kamkumo, L. L. Mohamadou, A. S	imo83
Analyzing of the ENSO Index Using Extreme Value Theory	
F. Maruyama	96
Seasonal Change in CO_2 Production Rate along Depth in a Grassland Field	
I. Iiyama	
Risk Assessment of Human Exposure to 2-Methylnaphthalene, Phenanthrene and Didodecylphthalate via Consumption of Shrimps (<i>Macrobrachium vollenhovenii</i>) from Qua Iboe River Estuary, South-South Nigeria	
I. O. Oyo-Ita, B. B. Asuquo, E. E. Oyo-Ita, O. E. Oyo-Ita	125
Developing Blue Spots Model for Tennessee Using GIS, and Advanced Data Analytic Literature Review	cs:
F. Kingsley	145



Produced Water Geochemistry from an Upstream Oil Operation	
N. Ullattumpoyil	155
Hydrochemical Characterization of Groundwater in the Sub-Prefecture of Kokumbo (Ivory Coast)	
A. K. Koblan, A. B. Koffi, A. Diomandé, D. S. Kouakou, K. J. Kouamé, J. P. Jourda	169
An Assessment of Land Cover Change in Gashaka-Gumti National Park, Nigeria	
D. A. Kwesaba, O. E. Daniel, D. Delphine, E. Benjamin	184
Analysis of Morphometric Parameters and Radioactive Characteristics Using Remote Sensing Data and GIS Techniques in the Wadi Wizr Basin Area, Central Eastern Desert, Egypt	
S. A. I. Hammouda, S. A. E. A. Mahmoud	197

Journal of Geoscience and Environment Protection (GEP) Journal Information

SUBSCRIPTIONS

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

Subscription rates: Print: \$39 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: gep@scirp.org



Journal of Geoscience and Environment **Protection** (GEP)

ISSN 2327-4336 (Print) ISSN 2327-4344 (Online) https://www.scirp.org/journal/gep

Journal of Geosciences and Environment Protection (GEP) is an international journal dedicated to the latest advancement of Geoscience and Environment Protection. 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 developments in different areas of Geoscience and Environment Protection. All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process.

Subject Coverage

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

Environmental Protection

- Air Pollution
- Chemical Pollution
- Climate Change
- Disasters Management
- Environmental Earth Sciences
- Environmental Geology and Rehabilitation
- Environmental Law and Policies
- Environmental Risk
- Global Environmental Protection Technology
- Global Warming
- Landfill Waste Management
- Mineral Processing, Waste Management and Recycling
- Nuclear Energy and Environmental Protection
- Pollution Control and Technologies
- Soil Environment and Soil Science in Other Disciplines
- Sustainability of Resources and Environment
- Waste Water Management and Aquaculture
- Water Engineering
- Water Resources Management and Water Quality

Geoscience

- BioGeomarkers and Their Significance for Astrogeology and Astrobiology
- Crystallography and Mineralogy
- Education and Capacity Building in Geosciences
- Endogenous, Exogenous Petrology and Geochemistry
- Energy and Mineral Deposits
- Geodynamics
- Geoethics
- Geographic Information Science
- Geological Collections and Museology
- Geophysics
- Hydrology and Hydrogeology
- International Partnership in Geosciences
- Natural Hazards

- 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 GEP.

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/gep E-mail: gep@scirp.org

 Medical and Forensic Geology • Meteorites and Planetary Geology

- Paleontology
- Statistics and Data Analysis in Geology
- Stratigraphy and Sedimentology

Call_for_Papers

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?

Art and Design Review

Advances in

Advances in Biological

Entomolog

Applied Mathematics

Engineering

nii ili a

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



Soft

Website: https://www.scirp.org Subscription: sub@scirp.org Advertisement: service@scirp.org