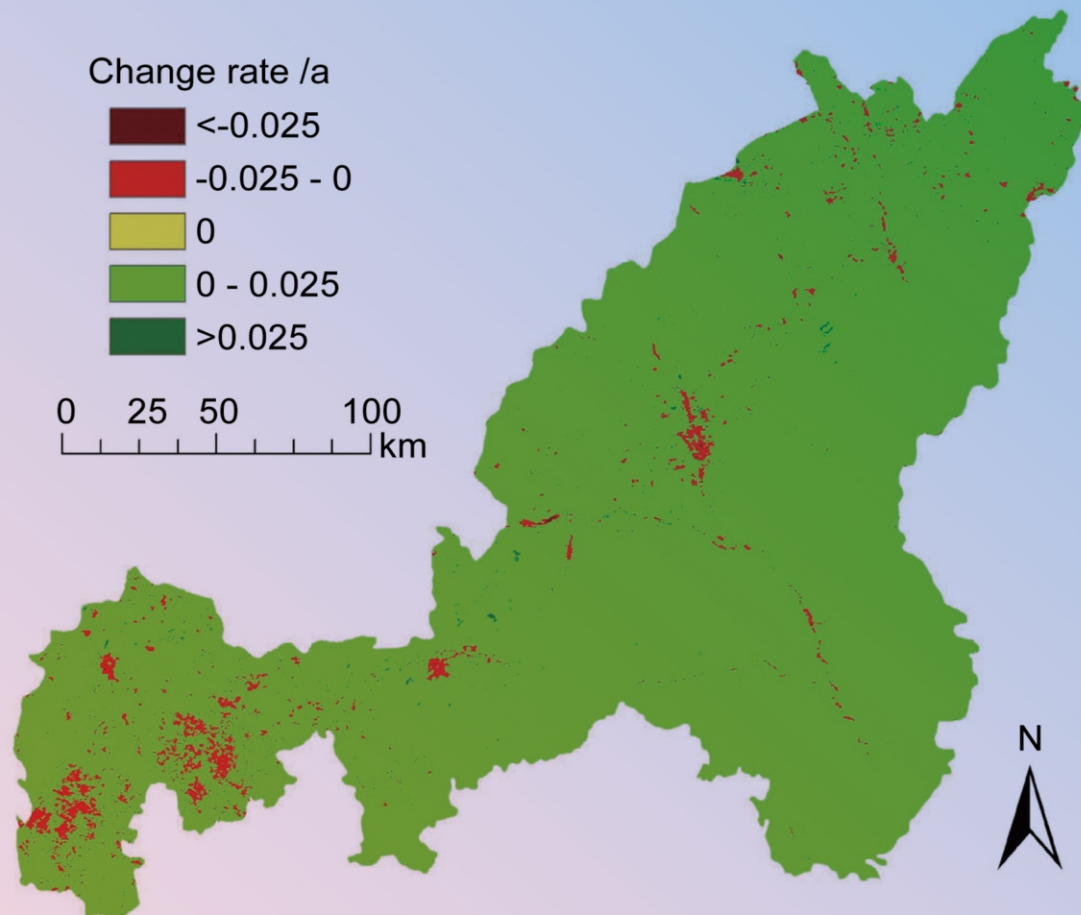


# Journal of Geoscience and Environment Protection



ISSN: 2327-4336

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

# Journal Editorial Board

ISSN 2327-4336 (Print) ISSN 2327-4344 (Online)

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

---

## Editor-in-Chief

**Prof. Valentine Udoh James**

Clarion University of Pennsylvania, USA

## Editorial Board

**Dr. Riccardo Buccolieri**

University of Salento, Italy

**Prof. Jianmin Chen**

Fudan University, China

**Prof. Peter G. Flood**

University of New England, Australia

**Prof. Yehia Hafez**

King Abdulaziz University, Saudi Arabia

**Prof. Benedict Hozor**

Eastern Michigan University, USA

**Prof. Sabah A. Ismail**

University of Kirkuk, Iraq

**Prof. M. A. Khalifa**

Menoufia University, Egypt

**Dr. Juan Ma**

Fayetteville State University, USA

**Dr. Amirhomayoun Saffarzadeh**

Kyushu University, Japan

**Prof. V. I. Solomatin**

Russian Academy of Nature Science, Russia

**Dr. Mustafa Din Subari**

Universiti Teknologi Malaysia, Malaysia

**Prof. Leiming Yin**

Chinese Academy of Sciences, China

**Dr. Xiaochun Zhang**

Carnegie Institution for Science, USA

**Prof. Qixing Zhou**

Nankai University, China

# Table of Contents

**Volume 4    Number 10**

**October 2016**

## **Economic Geology Study with Focus on Cu Mineralization (Fath Abad Area, Khorasan Razavi)**

R. Ehsani, N. Mohamadi, M. H. Ehsani.....1

## **Vegetation NDVI Change and Its Relationship with Climate Change and Human Activities in Yulin, Shaanxi Province of China**

T. Wang.....28

## **Environmental Study on a Coastal River of Bangladesh with Reference to Irrigation Water Quality Assessment: A Case Study on Shailmari River, Khulna**

M. M. Islam, A. K. Azad, M. H. Ara, M. Rahman, N. Hassan, S. C. Swarnokar, I. Rabeya.....41

## **Assessment of Heavy Metals Contamination in Sediments of the Vridi Canal (Côte d'Ivoire)**

K. A. Rodrigue, B. Yao, A. Trokourey, A. Kopoin.....65

## **The Need for Awareness of Drinking Water Loss Reduction for Sustainable Water Resource Management in Rwanda**

F. Karamage, C. Zhang, F. Ndayisaba, L. Nahayo, A. Kayiranga, J. K. Omifolaji, H. Shao,  
A. Umuhoza, J. B. Nsengiyumva, T. Liu.....74

# Journal of Geoscience and Environment Protection (GEP)

## Journal Information

### SUBSCRIPTIONS

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

#### Subscription rates:

Print: \$39 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.

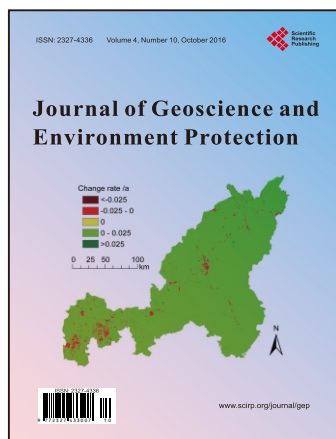
#### Disclaimer of liability

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: [gep@scirp.org](mailto:gep@scirp.org)



**Call for Papers**

## Journal of Geoscience and Environment Protection (GEP)

ISSN 2327-4336 (Print) ISSN 2327-4344 (Online)

<http://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
- Hydrology and Hydrogeology
- International Partnership in Geosciences
- Medical and Forensic Geology
- Meteorites and Planetary Geology
- Natural Hazards
- Paleontology
- Stratigraphy and Sedimentology

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

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

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