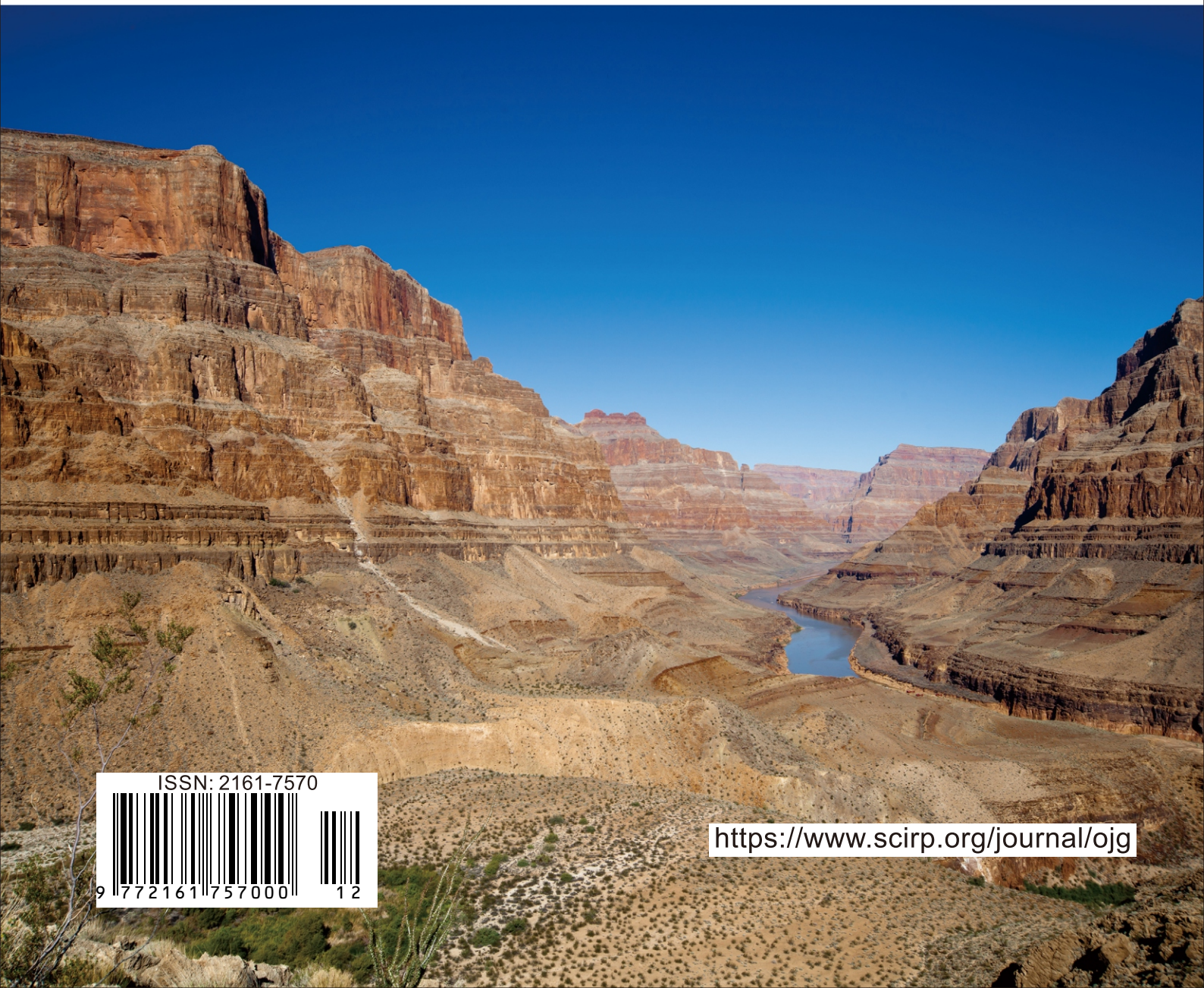


ISSN: 2161-7570 Volume 13, Number 12, December 2023



Open Journal of Geology



ISSN: 2161-7570



9 772161 757000 12

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

Journal Editorial Board

ISSN 2161-7570 (Print) ISSN 2161-7589 (Online)

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

Editor-in-Chief

Prof. Zhihong Wang Chinese Academy of Sciences, China

Editorial Board

Prof. Boushaba Abdellah Sidi Mohamed Ben Abdellah University, Morocco

Prof. Md. Mahmudul Alam Kyoto University, Japan

Prof. Nadhir Al-Ansari Lulea University of Technology, Sweden

Prof. Mokhles K. Azer National Research Centre, Egypt

Dr. Ranjith Pathegama Gamage Monash University, Australia

Prof. Alexandra Guedes University of Porto, Portugal

Prof. Olga Hachay Institute of Geophysics Ural Branch of Russian Academy of Sciences,
Russia

Prof. Sayed Hemeda Cairo University, Egypt

Prof. Mohamed Tahir Hussein King Saud University, Saudi Arabia

Prof. Gehad Mohamed Saleh Ibrahim Nuclear Materials Authority (NMA), Egypt

Prof. M. Kannan Parisutham Institute of Technology and Science (Anna University
Affiliated College), India

Prof. Ali Ihsan Karayigit Hacettepe University, Türkiye

Prof. Gang Li Chinese Academy of Sciences, China

Dr. Patrizia Maiorano University of Bari, Italy

Dr. Tranos D. Markos Aristotle University of Thessaloniki, Greece

Dr. Mostafa Tantawy Mohamed Assiut University, Egypt

Prof. Károly Németh Massey University, New Zealand

Prof. Cyril Ngozi Nwankwo University of Port Harcourt, Nigeria

Prof. Gopalakrishnarao Parthasarathy CSIR-National Geophysical Research Institute, India

Dr. M. M. Sheikh Churu (MGS University, Bikaner), India

Prof. Alireza K. Somarin Brandon University, Canada

Prof. Xiaoli Yang Central South University, China

Prof. Hong Zheng Chinese Academy of Sciences, China

Table of Contents

Volume 13 Number 12

December 2023

Geochemical Exploration of Sediments in the Toumodi Region: Origin of Metasediments, Geological Dynamics, and Perspectives for Regional Geological History

N. E. S. Tegan, A. N. Kouamelan, A. K. Yao, O. Gbele, Z. H. Siagne, K. A. N'Dri..... 1255

Tracing the Origin of Metasedimentary Rocks in the Tortiya Diamond Region (Northern Côte d'Ivoire)

T. Miryam, A. M. P. Koffi, K. Y. Augustin, H. Nestor, A. M. Ephrem, K. B. Roland 1271

Lamprophyre Rocks in the Nassara Gold Deposit, Southwest Burkina Faso: Characteristics and Implication for Mining Exploration

P. Ouyi, A. O. Yaméogo, S. Sawadogo, S. Naba 1291

Mineralization and Exploration Perspectives in the Oudiane Elkhroub Zone, Birimian Domain, Reguibat Shield, Mauritania

H. O. Mahmoud, M. Raji, M. Adjour, I. B. Vall..... 1312

Open Journal of Geology (OJG)

Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: sub@scirp.org

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: sub@scirp.org

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.

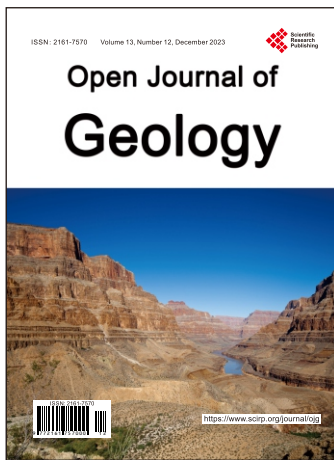
Disclaimer of liability

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: ojg@scirp.org



Call for Papers

Open Journal of Geology (OJG)

ISSN: 2161-7570 (Print) ISSN: 2161-7589 (Online)

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

Open Journal of Geology (OJG) is an international journal dedicated to the latest advancement of geology. 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 geology.

Subject Coverage

All manuscripts must be prepared in English, and are subject to a rigorous and fair peer-review process. Accepted papers will immediately appear online followed by printed hard copy. The journal publishes original papers including but not limited to the following fields:

- Earth Science
- Economic Geology
- Engineering Geology
- Environmental Geology
- Geoarchaeology
- Geochemistry
- Geochronology
- Geodetics
- Geography
- Geological Modelling
- Geometallurgy
- Geomicrobiology
- Geomorphology
- Geomythology
- Geophysics
- Glaciology
- Historical Geology
- Hydrogeology
- Meteorology
- Mineralogy
- Mining Geology
- Oceanography
- Paleoclimatology
- Paleontology
- Petroleum Geology
- Petrology
- Petrophysics
- Plate Tectonics
- Sedimentology
- Seismology
- Soil Science
- Speleology
- Stratigraphy
- Structural Geology
- Volcanology

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/ojg>

E-mail: ojg@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
Advertisement: service@scirp.org