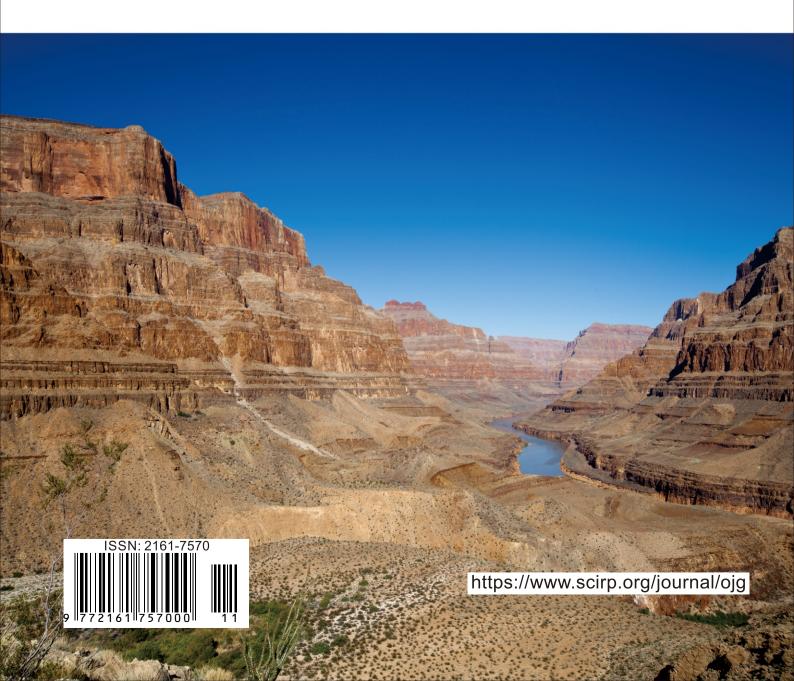




# Open Journal of Geology



# **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. Md. Mahmudul Alam Kyoto University, Japan

Dr. Ranjith Pathegama Gamage Monash University, Australia

Prof. Alexandra Guedes University of Porto, Portugal

Prof. Saved Hemeda Cairo University, Egypt

Prof. Mohamed Tahir Hussein King Saud University, Saudi Arabia

Prof. Ali Ihsan Karayigit Hacettepe University, Turkey

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. Gopalakrishnarao Parthasarathy CSIR-National Geophysical Research Institute, India

Brandon University, Canada

Prof. Ian P. Skilling University of Pittsburgh, USA Prof. Alireza K. Somarin

Prof. Juan R. Tejerina University of Cantabria, Spain

Dr. Ergün Tuncay Hacettepe University, Turkey

Prof. Shunshan Xu National University of Mexico, Mexico

Prof. Xiaoli Yang Central South University, China

Prof. Hong Zheng Chinese Academy of Sciences, China



Volume 9

Number 11

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

October 2019

# **Table of Contents**

# Use of Stream and Dismembered Stream Valleys Now Crossing Wyoming's Northern Laramie Mountains to Test a Recently Proposed Regional Geomorphology Paradigm, USA Geotechnical and Hydrological Characterization of Subsurface for Metallic Minerals Mining Operations in Punjab, Pakistan New U-Pb and Sm-Nd Data and REE Distribution in Sulphides of Paleoproterozoic PGE Layered Intrusions in the Arctic Part of the Fennoscandian Shield T. Bayanova, I. Elizarova, P. Serov, N. Ekimova, E. Kunakkuzin, Shallow Geothermal Energy Resources for Future Utilization in Jordan Stability Evaluation of Slopes Using Kinematic and Limit Equilibrium Analyses in Seismically Active Balakot, KPK, Pakistan Assessment of Rock Mass Quality and Support Estimation along Headrace Tunnel of a Small Hydropower in District Mansehra, Khyber Pakhtunkhwa, Pakistan M. S. Akram, M. Zeeshan, M. Haroon, K. Mirza.....809 Determination of Curie Point Depth, Heat Flow and Geothermal Gradient from High Resolution Aeromagnetic Data around Lamurde Area, Adamawa State, North-Eastern Nigeria Subsurface Characterization for Groundwater Management nearby the Unfinished Obelisk Archeological Site, Aswan Governorate, Egypt The Unique Comet Impact Pattern with Reference to Southern Tibet

# Open Journal of Geology (OJG)

#### Journal Information

#### **SUBSCRIPTIONS**

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

#### Subscription rates:

Print: \$79 per issue.

To subscribe, please contact Journals Subscriptions Department, E-mail: <a href="mailto:sub@scirp.org">sub@scirp.org</a>

#### **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 © 2019 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 © 2019 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







# 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.

E-mail: ojg@scirp.org

#### Website and E-Mail

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

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