



# International Journal of Geosciences





www.scirp.org/journal/ijg

#### **Journal Editorial Board**

ISSN: 2156-8359 (Print) ISSN: 2156-8367 (Online)

http://www.scirp.org/journal/ijg

.....

#### **Editors-in-Chief**

Prof. Jacques Bourgois Prof. Shuanggen Jin Université Pierre et Marie Curie, Paris 6, France Shanghai Astronomical Observatory, CAS, China

#### **Editorial Board**

Prof. Jong-Jin Baik

Prof. Rajasekhar Balasubramanian

Dr. Peter Bayer
Prof. Filippo Berto
Prof. Charles E. Button
Dr. Dionisios Gasparatos
Prof. Yury G. Gatinsky

Prof. Ruixia Hao

Prof. Oleg B. Khavroshkin

Dr. Charles Lemckert

Prof. Anthony Lupo

Prof. Ashok K. Mishra Dr. Massimo Mucciardi

Prof. Junboum Park

Prof. Cosenza Philippe

1 Tor. Coschza i miippe

Prof. Xianfang Song Dr. Agata Di Stefano

Prof. Xuexi Tie

Prof. George Tsiambaos

Prof. Bernd Wünnemann

Prof. Fawu Wang Prof. Xinghui Xia

Dr. Jianwen Yang Prof. Xiaohuan Yang

Prof. Lianyang Zhang Prof. A-Xing Zhu Seoul National University, South Korea

National University of Singapore, Singapore

Swiss Federal Institute of Technology Zürich, Switzerland Norwegian University of Science and Technology, Norway

Central Connecticut State University, USA Aristotle University of Thessaloniki, Greece Vernadsky State Geological Museum, Russia

Peking University, China

Russian Academy of Sciences, Russia

Griffith University, Australia

University of Missouri-Columbia, USA

Clemson University, USA University of Messina, Italy

Seoul National University, South Korea

Poitiers University, France

Chinese Academy of Sciences, China

University of Catania, Italy

National Center for Atmospheric Research, USA National Technical University of Athens, Greece

Freie Universität Berlin, Germany

Shimane University, Japan

Beijing Normal University, China University of Windsor, Canada Chinese Academy of Sciences, China

University of Arizona, USA University of Wisconsin, USA



ISSN Online: 2156-8367 ISSN Print: 2156-8359

#### **Table of Contents**

#### Volume 8 Number 8 August 2017 Assessment of Geotechnical Properties of Lateritic Gravels from South-Cameroon Road Network P. Z. Zame, P. S. Assomo, J. N. Onwualu.....949 Multiple Proxies on the Paleoenvironment of the Early Cambrian Marine Black Rock Series in the Tarim Basin, NW China: Molybdenum Isotope and Trace Element Evidence C. Y. Yao, W. M. Guo, J. N. Liu, H. W. Li.......965 3D Modelling from New and Existing Gravity Data of an Intrusive Body in the Northern Part of Kribi-Campo Sub-Basin in Cameroon Trace Elemental Expression in Soil Substratum and Floral Species in Selected Lateritic Profiles in the Northern Part of Kolar Schist Belt, Dharwar Craton, India B. C. Prabhakar, B. N. Rashmi, R. V. Gireesh......1004 Seismic Tremors and Their Relation to Cryosphere Dynamics in April 2015 around the Lützow-Holm Bay, East Antarctica Thermoelectric Currents of Earth's Core Generate the Earth's Magnetic Field

### International Journal of Geosciences (IJG) Journal Information

#### SUBSCRIPTIONS

The *International Journal of Geosciences* (Online at Scientific Research Publishing, <a href="www.SciRP.org">www.SciRP.org</a>) is published monthly by Scientific Research Publishing, Inc., USA.

#### Subscription rates:

Print: \$79 per copy.

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 © 2017 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 © 2017 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: ijg@scirp.org



## International Journal of Geosciences

ISSN: 2156-8359 (Print) ISSN: 2156-8367 (Online) http://www.scirp.org/journal/ijg

International Journal of Geosciences (IJG) is an international refereed journal dedicated to the latest advancement of geosciences. The goal of this journal is to keep a record of the state-of-the-art research and to promote study, research and improvement within its various specialties.

#### **Editors-in-Chief**

Prof. Jacques Bourgois Prof. Shuanggen Jin Université Pierre et Marie Curie, Paris 6, France Shanghai Astronomical Observatory, CAS, China

#### **Subject Coverage**

All manuscripts submitted to IJG must be previously unpublished and may not be considered for publication elsewhere at any time during IJG's review period. Additionally, accepted ones will immediately appear online followed by printed in hard copy. Topics to be covered by this journal include, but are not limited to:

- > Atmosphere
- Biosphere
- Cartography
- Climate Change
- ➤ Earth System Modelling
- Earthquake and Seismology
- ➤ Environmental Science
- Estuarine and Coasts
- Geochemistry
- Geodesy and Surveying
- Geographic Information System
- Geography
- Geo-Instrument Developments
- Geology
- Geomechanics

- Geomorphology and Surficial Process
- Geophysics
- ➤ Geostatistics
- ➤ Glaciology
- ➤ Hydrosphere
- > Lithosphere or Geosphere
- ➤ Marine Resources
- ➤ Mineralogy
- > NASA Earth Science Enterprise
- Oceanography
- > Pedosphere
- ➤ Petrology
- Seismology
- Soil Science

We are also interested in: 1) Short Reports—2 to 5 pages where the paper is intended to present either an original idea with theoretical treatment or preliminary data and results; 2) Book Reviews—Comments and critiques of recently published books in Geosciences.

#### **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.

Email: ijg@scirp.org

Website and E-Mail

http://www.scirp.org/journal/ijg

#### 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 Advertisement: service@scirp.org