



International Journal of Geosciences

Special Issue on Geography



ISSN: 2156-8359



977215683590406A2

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. Hema Achyuthan
Prof. Jong-Jin Baik
Prof. Rajasekhar Balasubramanian
Dr. Peter Bayer
Dr. Charles E. Button
Dr. Hangseok Choi
Dr. Dionisios Gasparatos
Dr. Yury G. Gatinsky
Prof. Maofa Ge
Prof. Zhengtang Guo
Dr. Ruixia Hao
Prof. Jiankun He
Prof. Zhangdong Jin
Prof. Oleg B. Khavroshkin
Dr. Charles Lemckert
Dr. Mengxue Li
Dr. Qi Li
Prof. Hongyan Liu
Prof. Jun Liu
Dr. Shaofeng Liu
Prof. Becky P. Y. Loo
Dr. Hao Luo
Prof. Anthony Lupo
Prof. Ashok K. Mishra
Prof. Junboum Park
Prof. Cosenza Philippe
Prof. Xianfang Song
Prof. Jimin Sun
Dr. Xuexi Tie
Prof. George Tsiambaos
Prof. Fawu Wang
Prof. Bernd Wünnemann
Prof. Xinghui Xia
Prof. Wenjiao Xiao
Dr. Jianwen Yang
Prof. Xiaohuan Yang
Dr. Bin Yu
Dr. Chuanrong Zhang
Dr. Lianyang Zhang
Prof. Ping Zhao
Prof. A-Xing Zhu

Anna University, India
Seoul National University, South Korea
National University of Singapore, Singapore
Swiss Federal Institute of Technology Zürich, Switzerland
Central Connecticut State University, USA
Korea University, South Korea
Agriculture University of Athens, Greece
Vernadsky State Geological Museum, Russia
Chinese Academy of Sciences, China
Chinese Academy of Sciences, China
Peking University, China
Chinese Academy of Sciences, China
Chinese Academy of Sciences, China
Russian Academy of Sciences, Russia
Griffith University, Australia
University of Maryland, USA
Chinese Academy of Sciences, China
Peking University, China
Chinese Academy of Sciences, China
China University of Geosciences (Beijing), China
The University of Hong Kong, China
Georgia Institute of Technology, USA
University of Missouri-Columbia, USA
Texas A&M University, USA
Seoul National University, South Korea
Poitiers University, France
Chinese Academy of Sciences, China
Chinese Academy of Sciences, China
National Center for Atmospheric Research, USA
National Technical University of Athens, Greece
Shimane University, Japan
Freie Universität Berlin, Germany
Beijing Normal University, China
Chinese Academy of Sciences, China
University of Windsor, Canada
Chinese Academy of Sciences, China
Environment Canada, Canada
University of Connecticut, USA
University of Arizona, USA
China Meteorological Administration, China
University of Wisconsin, USA

TABLE OF CONTENTS

Volume 4 Number 6A2

August 2013

Invariance in the Seasonal Median Dates for Mono-Modal Monsoonal Rainfall Distribution over the Semi-Arid Ecotone of Sub-Saharan West Africa

N. Persaud, M. Elrashidi, X. B. Zhou, X. N. Zhao, X. L. Chen.....1

Stability Analysis of Cliff Face around Kegon Falls in Nikko, Eastern Japan: An Implication to Its Erosional Mechanisms

Y. S. Hayakawa.....8

Territorial Planning for Coastal Zones in Chile: The Need for Geographical-Environmental and Natural Risk Indicators for Spatial Decision Support Systems

F. Peña-Cortés, D. Rozas-Vásquez, G. Rebolledo, J. Pincheira-Ulbrich, M. Escalona, E. Hauenstein,
L. Vargas-Chacoff, C. Bertrán, J. Tapia, M. Cisternas.....17

Ground Water Harvesting through Traditional Water Harvesting Technology: Adopting Himalayan Practices in Ethiopian Highlands

D. K. Dube, R. U. Reddy, R. H. Yadav.....30

Root Canals and Crowns: An Analysis of the Spatial Distribution of Dental Offices in Ciudad Juárez, Chihuahua, Mexico, 1996-2011

P. J. Boda, J. Harris.....38

Urban Geography and the Production of Socio-Environmental Inequalities

M. Parés.....44

Classification of River Reaches on the Little Disturbed East Alligator River, Northern Australia

M. J. Saynor, W. D. Erskine.....53

Medications in Mexico: The Growth and Distribution of Pharmacies in Ciudad Juárez, Chihuahua, Mexico from 1996-2011

P. J. Boda.....66

Drought and Associated Impacts in the Great Plains of the United States—A Review

J. B. Basara, J. N. Maybourn, C. M. Peirano, J. E. Tate, P. J. Brown, J. D. Hoey, B. R. Smith.....72

The figure on the front cover is from the article published in *International Journal of Geosciences*, 2013, Vol. 4, No. 6A2, pp. 8-16 by Yuichi S. Hayakawa.

International Journal of Geosciences (IJG)

Journal Information

SUBSCRIPTIONS

The *International Journal of Geosciences* (Online at Scientific Research Publishing, www.SciRP.org) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates:

Print: \$59 per copy.

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©2013 Scientific Research Publishing, Inc.

All Rights Reserved. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, scanning or otherwise, except as described below, without the permission in writing of the Publisher.

Copying of articles is not permitted except for personal and internal use, to the extent permitted by national copyright law, or under the terms of a license issued by the national Reproduction Rights Organization.

Requests for permission for other kinds of copying, such as copying for general distribution, for advertising or promotional purposes, for creating new collective works or for resale, and other enquiries should be addressed to the Publisher.

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.

Website and E-Mail

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

Email: ijg@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, by delivering superior scientific publications and scientific information solution provider that enable advancement in scientific research.

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, world-wide, 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**

Website: <http://www.scirp.org>

Subscription: sub@scirp.org

Advertisement: service@scirp.org