Journal Editorial Board

ISSN: 2150-4091 (Print)  ISSN: 2150-4105 (Online)
http://www.scirp.org/journal/ns/

Editor-in-Chief
Prof. Kuo-Chen Chou
Gordon Life Science Institute, USA

Editorial Advisory Board
Dr. James J. Chou
Harvard Medical School, USA
Prof. Reba Goodman
Columbia University Health Sciences, USA
Dr. Robert L. Heinrikson
Proteos, Inc., USA
Prof. Robert H. Kretsinger
University of Virginia, USA

Editorial Board
Prof. Tarek Aboul-Fadl
Assiut University, Egypt
Dr. Fridoon Jawad Ahmad
King Edward Medical University, Pakistan
Prof. Hakan Arslan
Mersin University, Turkey
Prof. Bikas K. Chakrabarti
Saha Institute of Nuclear Physics, India
Prof. Khalil El-Hami
Kyoto University, Japan
Dr. Marina Frontasyeva
Joint Institute for Nuclear Research, Russia
Dr. Tai-Yin Huang
Pennsylvania State University-Lehigh Valley, USA
Prof. Syed Kamrul Islam
University of Tennessee, USA
Dr. Yohichi Kumaki
Utah State University, USA
Dr. Peng Li
University of California, Irvine, USA
Prof. Giulio Lorenzini
University of Parma, Italy
Prof. Mark Lee Morrissey
University of Oklahoma, USA
Dr. Sunil Nautiyal
Centre for Ecological Economics and Natural Resources, India
Dr. Edward Lee Nelson
University of California, Irvine, USA
Prof. Dimitrios P. Nikolelis
University of Athens, Greece
Dr. Dongfeng Pan
University of Virginia, USA
Dr. Judit M. Pap
Catholic University of America, USA
Prof. Caesar Saloma
University of the Philippines Diliman, Philippines
Dr. Victor B. Semikoz
Russian Academy of Sciences, Russia
Dr. Mohammad Reza Shadnam
KPMG LLP, Canada
Prof. Kenji Sorimachi
Dokkyo Medical University, Japan
Dr. Marco Taddia
University of Bologna, Italy
Dr. Rodrick Wallace
New York State Psychiatric Institute, USA
Dr. Chao-Fu Wang
National University of Singapore, Singapore
Dr. Xin Wang
Nanjing Institute of Geology and Palaeontology, China
Dr. Sharif H. Zein
University of Hull, UK
Dr. Li-Bu Zhao
SUNY Upstate Medical University, USA
Dr. Weizhu Zhong
Pfizer Global Research and Development, USA

Guest Reviewers (According to Alphabet)

Salvador Alfaro
Takayuki Ban
Blanca Bernal
Jason Blum
Maria Teresa Esposito
Pushan Kumar Dutta
Fang Fang
Marina Frontasyeva
Yu Gao
Tomasz Grigori
Raja Rizwan Hussain
Yan Jiang
Toshiyuki Kimura
Ying Lai
Shuang Li
Dazhi Liu
Liu Liu
Zhiyong Liu
Rafael Luque
Piotr Maczech
Lev A. Maslov
Ho Soon Min
Daniela Morelli
Fan Peng
Mohd.Yusri bin Abd. Rahman
Brijesh Rathi
Toshifumi Sato
Ruediger Schweiss
Sumin Tang
Jo-Ming Tseng
Shahida Wafeed
John R. Williams
Jamsheed Hussain Zaidi
Yongyuan Zang
Nenghui Zhang
Hongchi Zhong
Junwu Zhu
# Table of Contents

**Volume 6   Number 8   April 2014**

**Scientific Analysis of Adding Weather Heat Capacity 'Ch in the Weather Forecast**

H. Q. Wang..................................................................................................................................................565

**Use of Decision Theory to Predict Dust Storms over New Delhi, India**

N. D. Desouza, R. Kurchania, M. S. Qureshi...............................................................................................574

**Statistical Study: Nature Relationship between Climatic Variables Prevailing Prior to Flowering or Subsequent to Boll Setting and Cotton Production**

Z. M. Sawan...............................................................................................................................................583

**Modal Inter-Comparisons between North Atlantic Accumulated Cyclone Energy and the Atlantic Multi-Decadal Oscillation, and the Pathology of the 2013 Hurricane Season**

T. Z. Yan, S. W. Bao, L. J. Pietrafesa, P. T. Gayes..................................................................................597

**Assimilation of GPS RO Refractivity Data and Its Impact on Simulations of Trade Wind Inversion and a Winter Cold Front**

C. H. Zhou, Y.-L. Chen.................................................................................................................................605

---

The figure on the front cover is from the article published in Natural Science, 2014, Vol. 6, No. 8, pp. 574-582 by Nirmala D. Desouza, *et al.*
Natural Science (NS)

Journal Information

SUBSCRIPTIONS


Subscription rates:
Print: $89 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)
E-mail: sub@scirp.org

COPYRIGHT

COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:
Copyright © 2014 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 © 2014 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: ns@scirp.org
Natural Science is an international journal dedicated to the latest advancement of natural sciences. 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 natural sciences. 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:

- **Astronomy & Space Sciences**
  - Astronomy
  - Astrophysics
  - Atmospheric Science
  - Space Physics

- **Earth Science**
  - Geography
  - Geology
  - Geophysics/Geochemistry
  - Oceanography

- **Chemistry**
  - Analytical Chemistry
  - Biochemistry
  - Computational Chemistry
  - Inorganic Chemistry
  - Organic Chemistry
  - Physical Chemistry

- **Life Science**
  - Cell Biology
  - Computational Biology

- **Genetics**
- **Immunology**
- **Medicine/Diseases**
- **Microbiology**
- **Molecular Biology**
- **Neuroscience**
- **Pharmacology/Toxicology**
- **Physiology**
- **Psychology**
- **Virology**

- **Physics**
  - Applied Physics
  - Atomic, Molecular, and Optical Physics
  - Biophysics
  - High Energy/Particle Physics
  - Material Science
  - Plasma Physics

- **Others**
  - Education
  - History of Science
  - Science and Innovations

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 be previously published nor be currently under consideration for publication elsewhere. Paper submission will be handled electronically through the website. For more details, please access the website.

**Website and E-Mail**

http://www.scirp.org/journal/ns  
E-mail: ns@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

Website: http://www.scirp.org
Subscription: sub@scirp.org
Advertisement: service@scirp.org