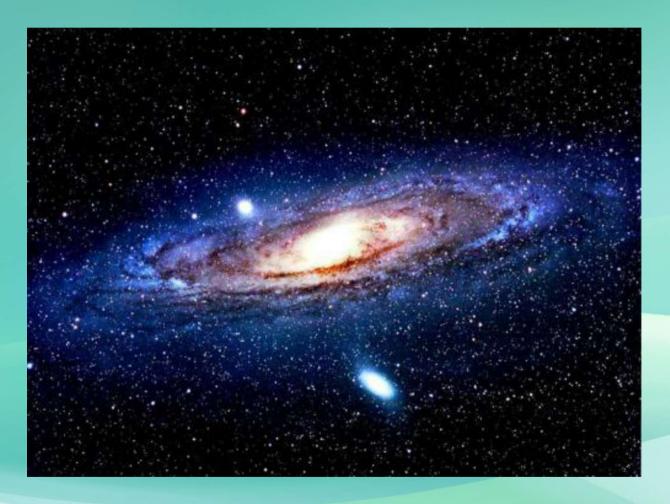


# Natural Science



Editor-in-Chief Kuo-Chen Chou www.scirp.org/journal/ns



# **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 Board**

Prof. Tarek Aboul-Fadl Prof. Fridoon Jawad Ahmad Prof. Hakan Arslan Prof. Khalil El-Hami Dr. Marina Frontasyeva Prof. Reba Goodman **Prof. Tai-Yin Huang** Prof. Syed Kamrul Islam Prof. Robert H. Kretsinger Prof. Peng Li Prof. Giulio Lorenzini Prof. Mark Lee Morrissev **Prof. Sunil Nautiyal Dr. Edward Lee Nelson Prof. Dimitrios P. Nikolelis Dr. Dongfeng Pan** Prof. Caesar Saloma Dr. Victor B. Semikoz Dr. Mohammad Reza Shadnam Prof. Kenji Sorimachi Dr. Marco Taddia Prof. Chao-Fu Wang Prof. Xin Wang Dr. Sharif H. Zein Dr. Li-Ru Zhao Dr. Weizhu Zhong

Assiut University, Egypt King Edward Medical University, Pakistan Mersin University, Turkey Kyoto University, Japan Joint Institute for Nuclear Research, Russia Columbia University Health Sciences, USA Pennsylvania State University-Lehigh Valley, USA University of Tennessee, USA University of Virginia, USA University of California, USA University of Parma, Italy University of Oklahoma, USA Institute for Social and Economic Change, India University of California, USA University of Athens, Greece University of Virginia, USA University of the Philippines Diliman, Philippines Russian Academy of Sciences, Russia KPMG LLP, Canada Dokkyo Medical University, Japan University of Bologna, Italy National University of Singapore, Singapore Nanjing Institute of Geology and Palaeontology, China University of Hull, UK SUNY Upstate Medical University, USA Pfizer Global Research and Development, USA



### **Table of Contents**

Volume 8	Number 2	February 2016
Nickel Antimony Sulphide Thin Films for Solar Cell Application: Study of Optical Constants		
S. Mushtaq, E	3. Ismail, M. Raheel, A. Zeb	
The Contribution of d $lpha$ -Tocopherol and d $\gamma$ -Tocopherol to the Antioxidant Capacity of Several Edible Plant Oils		
G. G. Duthie,	P. T. Gardner, P. C. Morrice, D. B. McPhail	41
On the Magnus Effect		
K. E. Kenyon.		
Screening Selected Linseed ( <i>Linum usitatissimum</i> L.) Genotypes for Yield Performance in Sindh, Pakistan		
S. Gul, A. A. F	ajper, F. A. Kalhoro, S. A. Kalhoro, A. Ali, F. A. Shah, S. Ahmed, M. Ahmed	53
An Independence Property for General Information		
D. Vivona, M	. Divari	
Antioxidant Activity of the Natural Flavonoid 7-Hydroxy-5,6,4'-trimethoxyflavone Isolated from the Leaves of <i>Lippia rugosa</i> A. Chev		
J. Momeni, J.	P. Tsopmejio, F. T. Nkouam, M. B. Ngassoum	70

#### **Natural Science (NS)**

#### **Journal Information**

#### SUBSCRIPTIONS

The *Natural Science* (Online at Scientific Research Publishing, <u>www.SciRP.org</u>) is published monthly by Scientific Research Publishing, Inc., USA.

Subscription rates: Print: \$89 per copy. To subscribe, please contact Journals Subscriptions Department, E-mail: <u>sub@scirp.org</u>

#### SERVICES

Advertisements Advertisement Sales Department, E-mail: <u>service@scirp.org</u>

Reprints (minimum quantity 100 copies) Reprints Co-ordinator, Scientific Research Publishing, Inc., USA. E-mail:<u>sub@scirp.org</u>

#### COPYRIGHT

#### COPYRIGHT AND REUSE RIGHTS FOR THE FRONT MATTER OF THE JOURNAL:

Copyright © 2016 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 © 2016 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: <u>ns@scirp.org</u>

# **Call for Papers**

# **Natural Science**

#### A Journal Published by Scientific Research Publishing, USA www.scirp.org/journal/ns

#### Editor-in-Chief

Prof. Kuo-Chen Chou

#### **Editorial Board**

Prof. Tarek Aboul-Fadl Prof. Fridoon Jawad Ahmad Prof. Hakan Arslan Prof. Khalil El-Hami Dr. Marina Frontasveva Prof. Reba Goodman Prof. Tai-Yin Huang Prof. Sved Kamrul Islam Prof. Robert H. Kretsinger

Gordon Life Science Institute, USA

Prof. Peng Li Prof. Giulio Lorenzini Prof. Mark Lee Morrissey Prof. Sunil Nautiyal Dr. Edward Lee Nelson Prof. Dimitrios P. Nikolelis Dr. Dongfeng Pan Prof. Caesar Saloma Dr. Victor B. Semikoz



Dr. Mohammad Reza Shadnam Prof. Kenji Sorimachi Dr. Marco Taddia Prof. Chao-Fu Wang Prof. Xin Wang Dr. Sharif H. Zein Dr. Li-Ru Zhao Dr. Weizhu Zhona

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 ۵
  - **Atmospheric Science**
  - Space Physics
  - **Earth Science** 
    - ٨ Geography
    - ٨ Geology
    - ٨
    - Geophysics/Geochemistry ٨ Oceanography
- Chemistry
  - Analytical Chemistry
  - ٨ Biochemistry
  - Computational Chemistry
  - Inorganic Chemistry
  - Organic Chemistry ۵.
  - Physical Chemistry ۸
- Life Science
  - Cell Biology
  - Computational Biology ۵

- Genetics ۵
- Immunology ۵
- Medicine/Diseases
- Microbioloav
- Molecular Biology
- ۵ Neuroscience
- ۸ Pharmacology/Toxicology
- Physiology
- ٨ Psychology
- Virology
- Physics
  - **Applied Physics**
  - Atomic, Molecular, and Optical Physics
  - **Biophysics** ٨
  - High Energy/Particle Physics ۵
  - Material Science
  - **Plasma Physics** ٨

#### Others

- ۵ Education
- History of Science ۵
- 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.

#### 2 **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.

#### N Website and E-Mail

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

E-mail: ns@scirp.org

- - - ٨
  - ۵

#### 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?

Art and Design Review

Advances in

dvances in Biological

Chemistry

Entomology

Applied Mathematics

Engineering

COLUMN IN

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

Soft

li li

- 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