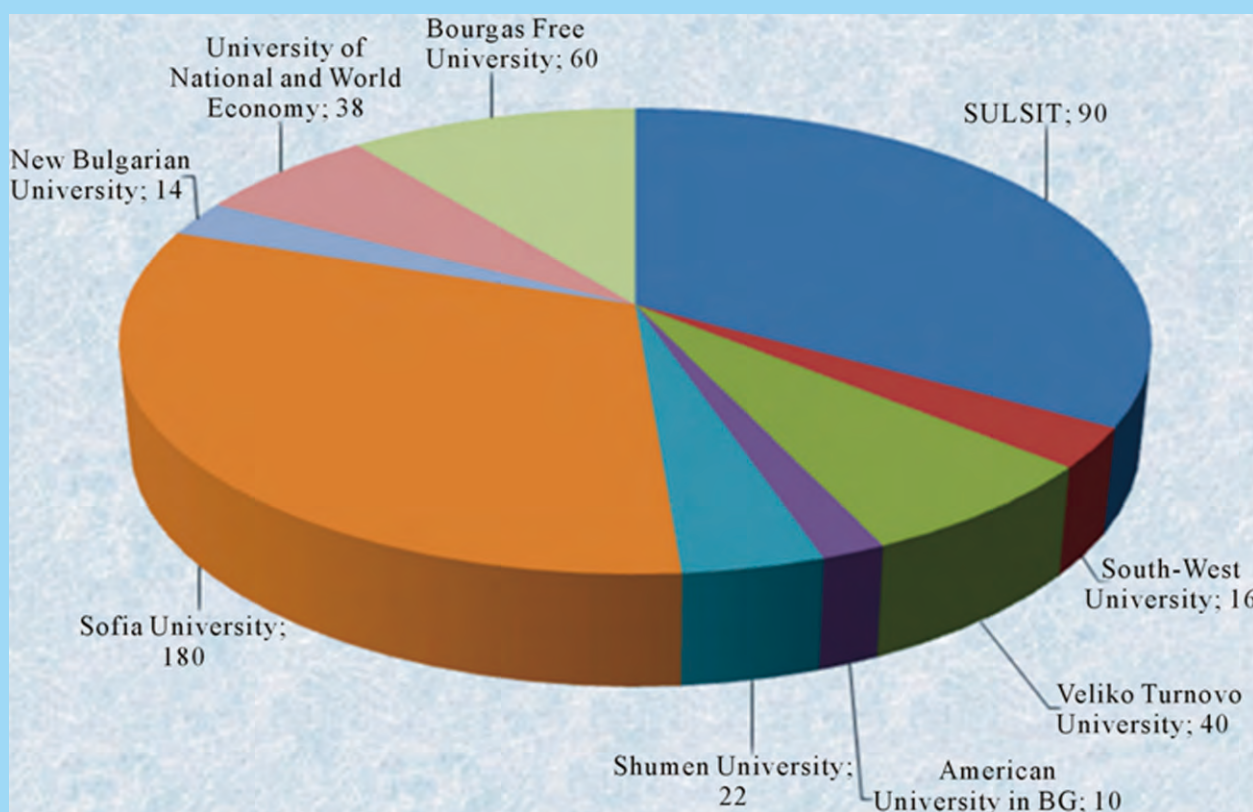


Open Journal of Applied Sciences



Journal Editorial Board

ISSN Print: 2165-3917 ISSN Online: 2165-3925

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

Editors-in-Chief

Prof. A. C. Matin
Prof. Harry E. Ruda

Stanford University School of Medicine, USA
University of Toronto, Canada

Editorial Board

Prof. Terry L. Alford
Prof. Y. Bilgin Altundas
Dr. Demetrios A. Arvanitis
Prof. Ezekiel Bahar
Prof. David Berbrayer
Prof. Der-Chen Chang
Prof. Yong Chen
Dr. Paul Crilly
Prof. Andrzej T. Galecki
Dr. Chunlei Guo
Prof. Paloma R. Horche
Prof. Sheng-He Huang
Prof. Hiroshi Kagemoto
Dr. Laura A. Frey Law
Prof. Deqing Liang
Dr. Jingbo Liu
Dr. Jukka P. Matinlinna
Prof. Richard Mu
Dr. Edward L. Nelson
Prof. Singiresu S. Rao
Prof. Noha Nabil Salama
Prof. Bruno Samorì
Prof. Michael K. Schweigert
Prof. Danial Shahmirzadi
Dr. M. P. Srinivasan
Dr. Tian Tang
Dr. Low-Hong Tong
Prof. Dimos A. Triantis
Prof. Nicholas Tsounis

Dr. Giovanni Valdrè
Prof. Yiru Xu
Prof. Changying Zhao
Prof. Shufeng Zhou

Arizona State University, USA
Schlumberger-Doll Research, USA
Academy of Athens, Greece
University of Nebraska, USA
University of Toronto, Canada
Georgetown University, USA
Ecole Normale Supérieure, France
The University of Tennessee, Knoxville, USA
University of Michigan Medical School, USA
University of Rochester, USA
Polytechnic University of Madrid, Spain
University of Southern California, USA
The University of Tokyo, Japan
University of Iowa, USA
The Chinese Academy of Sciences, China
Texas A&M University-Kingsville, USA
The University of Hong Kong, China
Fisk University, USA
University of California, Irvine, USA
University of Miami, USA
St. Louis College of Pharmacy, USA
University of Bologna, Italy
McGill University, Canada
Columbia University, USA
National University of Singapore, Singapore
University of Alberta, Canada
National University of Singapore, Singapore
Technological Educational Institution of Athens, Greece
Department of International Trade, Technological Educational
Institute of Western Macedonia, Greece
University of Bologna, Italy
University of Michigan Medical School, USA
Shanghai Jiao Tong University, China
University of South Florida, USA

Table of Contents

Volume 4 Number 3

March 2014

**Stokes First Problem for an Unsteady MHD Third-Grade Fluid
in a Non-Porous Half Space with Hall Currents**

H. Zaman, A. Sohail, Ubaidullah.....85

**Spectroscopy and Optical Properties of Sm^{3+} :YAG Nanocrystalline Powder Prepared by
Co-Precipitation Method: Effect of Sm^{3+} Ions Concentrations**

H. Ali, M. T. H. A. Kana, M. A. Khedr.....96

Vibrational Studies of Different Human Body Disorders Using FTIR Spectroscopy

S. Kumar, Reena, S. Chaudhary, Sweety, D. C. Jain.....103

Intellectual Property Knowledge at the University's Information Environment: A Comparative Study

T. Trencheva, S. Denchev.....130

**Analytical Evaluation of Energy and Electron Concentrations in Quantum Wells of
the High Electron Mobility Transistors**

S. Saygi.....137

Open Journal of Applied Sciences (OJAppS)

Journal Information

SUBSCRIPTIONS

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

Subscription rates:

Print: \$79 per issue.

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 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: ojapps@scirp.org

Call for Papers



Open Journal of Applied Sciences

ISSN 2165-3917 (print) ISSN 2165-3925 (online)

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

Open Journal of Applied Sciences (OJAppS) is an international peer-reviewed, open-access journal publishing in English original research studies, reviews in diverse areas of applied 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 applied sciences and to keep a record of the state-of-the-art research in related areas.

Subject Coverage

The journal publishes original papers including but not limited to the following fields:

Applied Behavioral Science
Applied Biology
Applied Chemistry
Applied Ecology
Applied Economics
Applied Engineering

Applied Genetics
Applied Geography
Applied Linguistics
Applied Mathematics
Applied Mechanics
Applied Philosophy

Applied Physics
Applied Physiology
Applied Psychology
Applied Sociology
Artificial Intelligence
Computing Technology

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 submission, please access the website.

Website and E-Mail

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

E-mail: ojapps@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