

# Open Journal of Applied Sciences



### **Journal Editorial Board**

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

.....

#### Editor-in-Chief

**Prof. A. C. Matin** Stanford University School of Medicine, USA

#### **Editorial Board**

**Prof. Terry L. Alford** Arizona State University, USA

**Dr. Y. Bilgin Altundas** Schlumberger-Doll Research, USA

Prof. Ezekiel Bahar University of Nebraska, USA
Prof. Der-Chen Chang Georgetown University, USA

**Prof. Yong Chen** Ecole Normale Supérieure, France

Dr. Paul CrillyThe University of Tennessee, Knoxville, USAProf. Andrzej T. GaleckiUniversity of Michigan Medical School, USA

**Dr. Sheng-He Huang** University of Southern California, USA

Dr. Laura A. Frey Law University of Iowa, USA

Dr. Jukka P. MatinlinnaThe University of Hong Kong, ChinaProf. Edward L. NelsonUniversity of California, Irvine, USADr. Noha Nabil SalamaSt. Louis College of Pharmacy, USA

**Prof. Bruno Samorì** University of Bologna, Italy

**Dr. M. P. Srinivasan** National University of Singapore, Singapore

**Dr. Tian Tang** University of Alberta, Canada

Prof. Dimos A. Triantis Technological Educational Institution of Athens, Greece

**Prof. Giovanni Valdrè** University of Bologna, Italy

**Dr. Yiru Xu** University of Michigan Medical School, USA

Prof. Chang-Ying ZhaoShanghai Jiao Tong University, ChinaProf. Shufeng ZhouUniversity of South Florida, USA

#### **Editorial Assistant**

**Emma Chen** Scientific Research Publishing, USA Email: ojapps@scirp.org



#### TABLE OF CONTENTS

Volume 2 Number 1	March 2012
p54nrb, a PSF Protein Partner, Contributes to Meningitic <i>Escherichia coli</i> K1-Mediated Pa	thogenicities
L. He, F. Chi, T. Bo, L. Wang, C. H. Wu, A. Jong, S. H. Huang	1
A Strategy for Development of Realistic Mathematical Models of Whole-Body Metabolism	
M. F. Madsen, S. Dano, B. Quistorff.	11
On Laminar Flow in Microfabricated Channels with Partial Semi-Circular Profiles	
W. J. Federspiel, I. Valenti	28
Mid-Range Wireless Power Transfer and Its Application to Body Sensor Networks	
F. Zhang, J. B. Liu, Z. H. Mao, M. G. Sun.	35
Numerical Simulation for Shaping Feature of Molten Pool in Twin-Arc Submerged Arc We	elding
K. F. He, J. Chen, S. W. Xiao.	47
Synthesis of Some Azo Disperse Dyes from 1-Substituted 2-Hydroxy-6-pyridone Derivatives Their Colour Assessment on Polyester Fabric	s and
K. J. Sakoma, K. A. Bello, M. K. Yakubu.	54

Copyright © 2012 SciRes.

#### **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 quarterly by Scientific Research Publishing, Inc., USA.

#### **Subscription rates:**

Print: \$39 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©2012 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 assumes 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) 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 Acoustics
- Applied Behavioral Science
- Applied Biochemistry
- Applied Biology
- Applied Catalysis
- Applied Chemistry
- Applied Climatology
- Applied Cognitive Psychology
- Applied Crystallography
- Applied Ecology
- Applied Econometrics
- Applied Economics
- Applied Electrochemistry
- Applied Entomology
- Applied Ergonomics
- Applied Finance

- Applied Genetics
- Applied Geochemistry
- Applied Geography
- Applied Geomatics
- Applied Geophysics
- Applied Gerontology
- Applied Ichthyology
- Applied Immunology
- Applied Intelligence
- Applied Linguistics
- Applied Mathematics
- Applied Mechanics
- Applied Microbiology Applied Nanoscience
- Applied Neurobiology
- Applied Ocean Research

- Applied Pathology
- Applied Pharmacology
- Applied Philosophy
- Applied Physics
- Applied Physiology
- Applied Polymer Science
- Applied Psychology
- Applied Sociology
- Applied Spectroscopy
- Applied Surface Science
- Applied Toxicology

E-mail: ojapps@scirp.org

- Applied Vegetation Science
- Mathematical Models in Applied Sciences
- Mathematical Methods in Applied Sciences

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