

ISSN: 2165-3917 Volume 11, Number 4, April 2021



# Open Journal of Applied Sciences

ISSN: 2165-3917



9 772165 391002 04

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

# Journal Editorial Board

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

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

---

## Editors-in-Chief

**Prof. A. C. Matin** Stanford University School of Medicine, USA  
**Prof. Harry E. Ruda** University of Toronto, Canada

## Editorial Board

**Prof. Terry L. Alford** Arizona State University, USA  
**Dr. Y. Bilgin Altundas** Schlumberger-Doll Research, USA  
**Dr. Demetrios A. Arvanitis** Academy of Athens, Greece  
**Prof. Ezekiel Bahar** University of Nebraska, USA  
**Prof. Der-Chen Chang** Georgetown University, USA  
**Prof. Yong Chen** Ecole Normale Supérieure, France  
**Dr. Paul Crilly** The University of Tennessee, Knoxville, USA  
**Prof. Andrzej T. Galecki** University of Michigan Medical School, USA  
**Dr. Krassimir Georgiev** Bulgarian Academy of Sciences (BAS), Bulgaria  
**Dr. Chunlei Guo** University of Rochester, USA  
**Dr. Ammar Mohammed Hamood AL-Farga** University of Jeddah, Saudi Arabia  
**Prof. Paloma R. Horche** Polytechnic University of Madrid, Spain  
**Dr. Sheng-He Huang** University of Southern California, USA  
**Prof. De-Qing Liang** The Chinese Academy of Sciences, China  
**Prof. Rodica Luca** “Gheorghe Asachi” Technical University, Romania  
**Prof. Wen-Xiu Ma** University of South Florida, USA  
**Prof. Jukka P. Matinlinna** The University of Hong Kong, China  
**Dr. Vishnu Narayan Mishra** Indira Gandhi National Tribal University, India  
**Prof. Richard Mu** Fisk University, USA  
**Prof. Valeriy Perminov** Tomsk Polytechnic University, Russia  
**Dr. Jie Shen** University of Michigan, USA  
**Dr. M. P. Srinivasan** National University of Singapore, Singapore  
**Dr. Tian Tang** University of Alberta, Canada  
**Dr. Low-Hong Tong** National University of Singapore, Singapore  
**Prof. Dimos A. Triantis** Technological Educational Institution of Athens, Greece  
**Dr. Yiru Xu** University of Michigan Medical School, USA  
**Dr. Yong Xu** Ferris State University, USA  
**Prof. Changying Zhao** Shanghai Jiao Tong University, China  
**Prof. Shufeng Zhou** University of South Florida, USA

# Table of Contents

**Volume 11 Number 4**

**April 2021**

## **A New Statistical Modeling Approach for Survival Analysis of Cancer Patients—Multiple Myeloma Cancer**

L. Mamudu, C. P. Tsokos.....365

## **Effects of Semi-Ablative Fractional Radiofrequency Associated with Growth Factors in Stretch Marks: A Randomized Controlled Trial**

P. F. Meyer, R. M. V. Da Silva, L. S. Vasconcelos, L. C. B. Bezerra, M. P. M. Oliveira, E. M. Carreiro,  
C. D. Soares, F. S. Borges, M. Etrusco, J. Rodrigues, S. B. Ribeiro, H. A. B. Ortiz.....379

## **Downhill Zagreb Topological Indices and $M_{da}$ -Polynomial of Some Chemical Structures Applied for the Treatment of COVID-19 Patients**

B. Al-Ahmadi, A. Saleh, W. Al-Shammakh.....395

## **The Effect of Nitrogen Gas Cooling Which Is Used in Aluminium Extrusion Mold on Production Efficiency**

M. Ozcan, C. Ozsut, O. Deveci, G. Bentesen.....414

## **Interpreter's Position in the Process of Interpretation**

J. Yao.....422

## **On the Dynamics of a Stochastic Ratio-Dependent Predator-Prey System with Infection for the Prey**

J. Y. Ma, H. M. Ren.....440

## **Post-Disaster Reconstruction of Alishan Tsou Tribe in Different Place and Sustainable Development**

H.-M. Chang, C.-H. Hung, H.-M. Lin.....458

## **A Framework Analysis for Lean Transformation: A Case Study of a Public Utility in Greece**

Y. A. Pollalis, M. K. Angelopoulos.....469

## **Photodegradation of Atorvastatin under Light Conditions Relevant to Natural Waters and Photoproducts Toxicity Assessment**

Š. Klementová, P. Petráňová, P. Fojtíková.....489

## **Extracurricular Reading for Children from Primary School Course in Bulgaria: Results of a Survey**

R. Krasteva, S. Spasova.....500

**Thermal Distortion Compensation for Improving Electrical Performance of Reflector Antennas**

J. M. Kang, W. Wang, S. Zhang, S. F. Lian, H. Bao.....523

**Identification of Topics from Scientific Papers through Topic Modeling**

D. L. M. Owa.....541

**Assessing the Effect of Climate Factors on Dengue Incidence via a Generalized Linear Model**

A. Sulekan, J. Suhaila, N. A. A. Wahid.....549

# Open Journal of Applied Sciences (OJAppS)

## Journal Information

### SUBSCRIPTIONS

The *Open Journal of Applied Sciences* (Online at Scientific Research Publishing, <https://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](mailto:sub@scirp.org)

### SERVICES

#### **Advertisements**

Advertisement Sales Department, E-mail: [service@scirp.org](mailto:service@scirp.org)

#### **Reprints (minimum quantity 100 copies)**

Reprints Co-ordinator, Scientific Research Publishing, Inc., USA.

E-mail: [sub@scirp.org](mailto:sub@scirp.org)

### COPYRIGHT

#### **Copyright and reuse rights for the front matter of the journal:**

Copyright © 2021 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 © 2021 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](mailto:ojapps@scirp.org)

**Call for Papers**



# Open Journal of Applied Sciences

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

<https://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

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

E-mail: [ojapps@scirp.org](mailto: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 with its publication.

## ***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, 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
- Rigorous peer review of research papers
- Prompt faster publication with less cost
- Guaranteed targeted, multidisciplinary audience



**Scientific  
Research  
Publishing**

**Website: <https://www.scirp.org>**

**Subscription: [sub@scirp.org](mailto:sub@scirp.org)**

**Advertisement: [service@scirp.org](mailto:service@scirp.org)**