



Volume (5) , Ng (4) August 2023

# Academy Journal for Basic and Applied Sciences (AJBAS)

*Periodical Electronic Scientific Journal issued by Scientific Research Affairs of  
Libya Academy*

---

General Supervisor President of Libyan Academy

## **Editor-in-Chief**

**Prof. Abdalla Idris Fadel**

## **Editorial Board**

**Prof. Ramadan Elhadi Almadini**

## **Technical Board**

**Site and internet management**

**Prof. Fathi H. Assaleh**

---

All copyrights reserved to Dar Alacademia Publisher, Tripoli, Libya. No part of this publication may be reproduced, stored in a retrieval form, or transmitted in any other form without prior permission of the copyright owner.

All correspondences should be addressed to:

Editor in chief of Journal of Academy for Basic and Applied Sciences.

Libyan Academy, P.O. Box 72331, Tripoli, Libya.

Tele: +218 928013352 and +218913750207

Email: [ajbas@academy.edu.ly](mailto:ajbas@academy.edu.ly) , [abdalla.fadel@academy.edu.ly](mailto:abdalla.fadel@academy.edu.ly)

ULR: <http://www.academy.edu.ly>

## **Aims of the Journal**

This journal aims to provide a reliable source of information on current research and development in the fields of basic and applied sciences, on the national and international levels, as well as exchange of ideas and information for experts in these fields. Moreover, it will provide an opportunity for researchers to publish their works.

Editorial Board Looks forewords to develop the journal and to promote it to be at the level of international scientific journals, and expand their reach circle to allow the largest possible number of interested to follow it by publishing all its issues through the internet web site.

## **Call for Papers**

The Editorial Committee invites teaching staff members, postgraduate students, engineers, researchers and all those concerned with basic and applied sciences, and technology fields to submit their research work to be published in the journal. The journal publishes scientific papers (basic and applied research, review papers) technical reports, technical notes and book reviews in the mentioned fields.

## **Terms of Publication in the Journal**

1. The papers and reports should be an original work and not considered for publication elsewhere. Papers published in conferences may be considered for publication in the journal after they go through the evaluation process and if they do not conflict with the copyright of the conference proceedings.
2. All papers and reports are subject to evaluation and may not be published unless all the required corrections are met and the author's guide for publication is followed.
3. The accepted papers could be written in Arabic (with English abstract), or in English (with Arabic abstract).

4. After acceptance of the paper or report for publication in the journal, it should not be considered for publication in another journal and the author should sign a copyright agreement with the editorial board of the journal.
5. Authors should include the full title of the paper, the author's full name, Author's affiliation and address, e-mail address.
6. Papers not written according to the stated instructions will not be considered for refereeing.

## **Typing Instruction**

In spite that an electronic paper template is available, Authors are kindly requested to abide by the following instructions:

1. Manuscripts should not exceed 15 (A4) pages including figures and tables, produced using Microsoft word, with Times New Roman font 12pt single space typewritten. The page setup left and right margins of 13.5 mm and top margin of 25.4 mm and bottom margin of 21.8 mm.
2. The original and two copies should be submitted, and on a CD disc. The file on the disc should exactly correspond to the hard copies.
3. Authors have to the following format:
  - a. *Title page*, headed by a concise but informative full title font size 14pt bold, name(s) font size 12pt bold, and address of the place where the work was carried out font size of 11pt normal all titles with font size of 12 pt bold.
  - b. *Abstract*, containing brief but informative details of the contents and conclusions of the paper and should not exceed 200words, size 12 pt.
  - c. *Introduction*, stating the reasons for carrying out the work, size of 12 pt.
  - d. *Materials and Methods*, containing sufficient experimental details so that methods can be reproduced by researchers (in experimental papers), size 12 pt.

- e. **Results** should be described as concise as possible, size of 12 pt.
- f. **Discussion** should not recapitulate results in detail or contain new information but should emphasize the relevance and significance of the findings reported, size of 12 pt.
- g. **Conclusion**, size of 12pt.
- h. **Acknowledgement**, size of 12pt.
- i. **References** should be cited in the text a number in square brackets [ ]. All references should be included at the end of the manuscript successively with size of 8pt. Correct references are the responsibility of the author.

## **Notes**

1. the Journal has the right to publish these researches and makes use of them in scientific fields without referring to their owners, provided always referring to the owners of these studies/research according to generally accepted rules.
2. Manuscripts submitted for publication does not respond to their owners, whether published or not, the applicant is not entitled to claim them.
3. Editors of the journal reserve the right to make editorial changes in any manuscript accepted for publication for the sake of style or clarity. Authors will be consulted only if the changes are substantial.
4. Author/s must pay all the expenses incurred in the review process if s/he decides to withdraw his/her research paper whilst it is undergoing review.

## Contents

### English Part

Research Title	Authors
A Comparative Analysis of Deep Learning Models for Breast Cancer Classification: Alex Net, VGG-16, ResNet-50, and DenseNet-121	Farag H. Alhsnony

An Overview of Feynman's Method for Calculating Improper Integrals	Abdlgader M. Inbaig
Analysis of Short Term Load Forecasting (STLF) using Artificial Neural Network (ANN) and Adaptive Neuro-Fuzzy Inference Systems (ANFIS)	Naji Ammar Eltawil
<i>Ceratothoa italica</i> (Schioedte & Meinert, 1883) on <i>Oblada melanura</i> (Linnaeus, 1758) from Tripoli, Libya	Sumaya Mustafa Allamoushi
Comparison between Yagi and Shaped lunar Patch Antennas at lower Microwave Frequencies for Wireless Communication Applications	Marai M. Abousetta
Design and Construction of Dental Prostheses: A Perspective from Mechanical Engineering	Mohamed Salah Magdale,
Determination of Hydroxymethylfurfural (HMF) in Honey Based on 4-aminoantipyrine Immobilised in sol-gel/chitosan Using Reflectance Spectrophotometric Technique	Mashri Ahmad Yahia Musa Ahmad
Effect of tornado size on forces on thin 2D cylinder	Zuhair A. Muhamed Majdi A. Yousef Faeza.R.Elnajic

Research Title	Authors
----------------	---------

First record of <i>Ceratothoa collaris</i> (Schioedte and Meinert, 1883) parasite on <i>Boops boops</i> (Linnaeus, 1758) from north-western coast of Libya	Najat El Mahdi El Gethmi
Higher prevalence of avian blood parasites infection in adult females compared to adult males of brown falcon ( <i>Falco berigora</i> )	Salwa A. Alriyah Paul G. McDonald
Impact of Distributed Generation Systems on the Libyan Distribution Network based on (220/30) KV Algaraboly Substation	Mahmoud Abotraba Abdelbaset M. Ihabal Salah Eddin Elgdamsi
Intelligent System for Potato Diseases Using Image Processing and Support Vector Machine	Maged. S. Almuzoghi Mohammed. G. Alnaas Najeh. I. Allafi
Internal parasites affecting freshwater and marine fish, and economic, health problems resulting from fish parasites in wild and farmed environments. A Review paper	Sana bashir Mohmmmed
Measurement of the ignition delay period of cotton methyl ester and cotton ethyl ester biodiesel fuels	H.E. Saleh Ramadan MH. Elsanousi
Numerical Modelling of Galvanic Corrosion of WE43 Mg Alloy in Blood Bank Buffered Saline Solution	Hesham Mraied Asma Sharfeddin
Spatial Tobit Regression Analysis: Case Study of Internet Use in Libya	Karima Hadia Abdulnabi
Stratigraphic analysis and structural development of Upper Ordovician Muminyat Formation in the El-Sharara oil field of block NC-115, Murzuq Basin, Libya, based on integration of seismic and well data	Abdurrazagh Ezzeddin Anwar B.Daghdugh

<b>Research Title</b>	<b>Authors</b>
Study of dermatophytes and non dermatophytes in hair and nails of Kids and Adults between 2-20 years in Tripoli Libya	Afaf A. Sawei Alya.H B . Duzan Abd-Alnabai M.Abognai
The cross-link between demographic and clinical characteristics and level of Lipoprotein-associated Phospholipase A2 in diabetic type 2 and non-diabetic with and without coronary artery disease	Essokni KH Fellah AM Ben-Mahmud BM
Word Detection Using Convolutional Neural Networks	Najwa Mohammed Adeeb Basma Emhamed Dihoum
Y-Junction Micro strip based Circulator for X-band Radar	Marai M. Abousetta,
Reservoir evaluation from well logs: A case study of “Beda” Oil Field, Sirte Basin	Entesar. A. Haman
The effect of electrical power quality on the performance of electric motors of submersible pumps with different capacities and operating ages in Tajora region	Mohamed I. Musa Milad A. Bshiri Ahmed E. Belhaj