



Volume (6) № (2) August 2024

# 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**

**Dr Musa Fineer**

**Technical Board**

**Site and internet management Dr Musa Fineer**

---

**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:**

**ULR: [www.alacademia.org](http://www.alacademia.org) , Email:**

## **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 All papers and reports are subject to evaluation and may not be published unless all the required corrections are met and the author's guide for publication is followed.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
1-Analysis and Calculation Of Refrigeration Capacity Of GTU intake Air Cooling Systems For Climatic Conditions with Saving Fuel Cost For Libyan Hon City	Rami Kamel El Gerbi , Ali Mohmmmed Ali Etohami , Abdurraouf Fadel , Farhat Giuma Ali Giuma
2-Assessment and Performance Comparison between Patch and Rectangular Resonators through Suitable Computational Method	Marai Abusetta Abdussalam Masaud Ammar

<p><b>3-Automated ECG Classification for Myocardial Infarction Diagnosis using CNN and Wavelet Transform</b></p>	<p><b>Jazy Mofteh Amed Amshaer<sup>1</sup>.</b> <b><sup>2</sup>Sanaa matoug belhaj</b></p>
<p><b>4- CERTAIN SUBCLASSES OF BI-UNIVALENT FUNCTIONS RELATED TO NEW GENERALIZED DERIVATIVE OPERATOR</b></p>	<p><b>Farida Abdallah Abufares<sup>1</sup> and Aisha Ahmed Amer<sup>2</sup></b></p>
<p><b>5-Comparative histological study of (<i>Hemiechinus auritus</i>) the Libyan Long-eared hedgehog liver.</b></p>	<p><b>Laila A. Ibrahim<sup>1</sup>, Abdulkarem A. Ilfergane<sup>1</sup> and Marwa M. Elomami<sup>1</sup></b></p>
<p><b>6- Comparison Between High Order Compact and Central Difference Methods For Evaluating Electromagnetic Fields From Power Transmission Lines</b></p>	<p><b>Marai M. Abousetta), Salwa M. Ibrahim).</b></p>
<p><b>7- Determine the Chemical Composition Present in Coriander, (<i>Coriandrum sativum</i>). by GC/MC technique</b></p>	<p><b>Dr: Saud A. Alshiteewi Eng. Mohamed Almbrouk</b></p>
<p><b>8- Development of Method Oxidation <math>\beta</math>-methylanthraquinone for the synthesis of Aloe-emodin, Rhein and Rheinal.</b></p>	<p><b>Dr. Khaled Taha Muhammad Abu thaher</b></p>

<p><b>9-The relationship between glycated hemoglobin (HbA1c) and normal hemoglobin (HG) level in diabetics and non-diabetic Libyan women</b></p>	<p><b>Munya Rajab Altahir <sup>a</sup>, Najat Hadi Omar Bahroun<sup>b*</sup>, Namat Ali Soliman <sup>c</sup>, Mohammed Khalid Mohammed Almahjoub <sup>a</sup>, Ayoub Abdulkarim Abou ikrays <sup>a</sup></b></p>
<p><b>10- Discontinuity Stress Analysis Of Metallic Pressure Vessel Using Finite Element Method</b></p>	<p><b>Dr. Ramadan Shamiss Wadil, Mohammad Elbahloul elbakai2</b></p>
<p><b>11 -Diversify of higher filamentous Marine fungi from different regions of the west and east coasts of Libya Review study. 2023</b></p>	<p><b>Kafu. R</b></p>
<p><b>12- DO POTASSIUM SUPPLY, SOIL WATER AND GENOTYPE INFLUENCE CONCENTRATIONS OF POTASSIUM IN BARLEY TISSUES?</b></p>	<p><b>Khaled Shaheen</b></p>
<p><b>13-Early Diagnosis of Endometrium Cancer using image processing techniques</b></p>	<p><b>Laila Mohammed Ramadan Nadia Fathe Hmad</b></p>
<p><b>14-E-Learning Facilitator Team solution of Problems and Challenges in the distance education</b></p>	<p><b>Abdulahkim M. TREKI, Tarek A. Khalifa, Naser and Ali Alfed, Gharyan University</b></p>
<p><b>15-Estimation of transmission coefficient of a propagating</b></p>	<p><b>.Marai M. Abousetta, Hawa Ayad</b></p>

electromagnetic waves through a plasma slab Using MW-MOMENT method.	
16 Evaluation the Antimicrobial Activity of Methanolic and aqueous Extracts of the Aerial Parts of <i>Chrozophora oblongifolia</i> Against some Microbes	Adeel Abdulkarim Altuhaish * <sup>1</sup> , Marwa Waleed <sup>2</sup> , Nagla Abdullah
17- Formation of <i>st</i> II:: Tnpho A gene fusion	Dr. Ali Ownis and Pro. C. Dow,
18-Green Synthesis of Gold Nanoparticles from Extract of <i>Origanum majorana</i> L	Fatema. H. almajdou
19- Libyan families satisfaction with their traditional and modern houses	Abubaker MOHAMED shawesh
20-ON THE EXTREME POINTS OF CLASSES OF UNIVALENT FUNCTIONS	Samah Khairi Ajaib <sup>1</sup> , Aisha Ahmed Amer <sup>2</sup> and Hanan Mohamed Almarwm
21-PREVALENCE AND ANALYSIS OF CUTANEOUS LEISHMANIASIS: A COMPARATIVE STUDY BETWEEN GENDERS IN DIFFERENT AGE GROUPS IN THE TRIPOLI AREA, LIBYA.	Mustafa Rahouma <sup>1</sup> , Omaro A. Aburas <sup>2</sup> , Asma Indbha <sup>3</sup> , Aisha Maidon <sup>4</sup> , Emni Hussin <sup>5</sup> , Emhamed Boras <sup>6</sup> .

<p><b>22-Real-Time Stroke Detection in MRI Imaging Using YOLOv8x</b></p>	<p><b>Basma Emhamed Ali Dihoum<sup>1*</sup> , Zahrah Mohammed Bileid<sup>2</sup></b></p>
<p><b>23-The Role of Virtual Reality Technique on Children with Cerebrl Palsy: A Review article</b></p>	<p><b>Lutfia Ali Ellsahli</b></p>
<p><b>24-STUDIES ON THE FLORA OF YEMEN:</b>  <b>Flora of Yabraq valleyand villages of Al-Mihwery, , Alwadeea District , Abyan Governorate-Yemen</b></p>	<p><b>Madleen Abdullah Obel<sup>1</sup> , Fuad Abdulla Al-Hood<sup>2</sup>, Mohammed Abdullah Hussein<sup>3</sup> Abdul-Nasser Al-Gifri<sup>4</sup>,</b></p>
<p><b>25-Study the effect of turning parameters on surface characteristics of the die tool steel (D3) by using Taguchi method</b></p>	<p><b>Mohamed. R. Budar <u>Mohamed. Etuohami. Swei</u> <u>Abdel hafid. B. Kridan</u> <u>Farhat Giuma Ali Giuma</u></b></p>
<p><b>26-Study the effects of the microstructure and microhardness on the external joint welding of stainless steel 316 pipe in sea water</b></p>	<p><b>Mohamed. R. Budar    Mohamed. Etuohami. Swei__Sami. Abdullah. Almashat Fathi. Rabie. Ashou</b></p>
<p><b>27-Teaching Aid of Electric Field On Parallel Plate Capacitor Using Matlab</b></p>	<p><b>Abdulatif A. Shaban</b></p>
<p><b>28- Exploring Newly</b></p>	



<b>Discovered Dinosaur Trackways in the Messak Formation, Sebha Region, Southwest Libya</b>	<b>Mustafa A. Abdullah<sup>*1</sup>, Alsharif A. Albaghdady<sup>2</sup> and Alsedik Abousif<sup>1</sup></b> <b><sup>1</sup>University of Sebha -Libya</b> <b><sup>2</sup>Libyan Academy-Libya*</b>
<b>29-NECESSARY CONDITIONS FOR THE GENERALIZED DERIVATIVE OPERATOR IN CLASSES OF UNIVALENT FUNCTIONS</b>	<b>Aisha Ahmed Amer<sup>1,*</sup>, Maslina Darus<sup>2</sup> and Nagat Muftah Alabbar<sup>3</sup></b>
<b>30- ANALYSIS OF THE EUPHRATES EARTH DAM'S SLOPE STABILITY</b>	<b>Amer Al Aouth<sup>1</sup>, Faeza R Elnaji<sup>2*</sup></b>
<b>31- Implementing Digital Medical Prescriptions in Libya: A Strategy to Minimize Medical Errors in Hospitals and Pharmacies</b>	<b>Dr.Musa Kh A Faneer<sup>1</sup>, Dr.Ali Alejenef<sup>2</sup></b>
<b>31-Audio Generation Using AudioML Approach on Arabic Databases</b>	<b>Abeer Ali Aoun<sup>1</sup>, Karim Dabbabi<sup>2</sup></b>