

ADAMAWA STATE UNIVERSITY JOURNAL OF SCIENTIFIC RESEARCH

VOLUME 4, NO. 1, APRIL 2016 ISSN:2251-0702

A Publication of

FACULTY OF SCIENCE ADAMAWA STATE UNIVERSITY (ADSU), MUBI P.M.B 25

Mubi, Adamawa state Nigeria. Adsujsr2012@gmail.com www.adsu.edu.ng +234 (0) 8036627553; +234 (0) 8101751685

EDITORIAL POLICY

ADSU Journal of Scientific Research is a journal for publication of original research articles from interested scholars and researchers in the academic community, international agencies, groups, individuals, institutions and other establishments concerning scientific approaches to sustainable development. Manuscript are critically reviewed and published annually. Articles not previously or simultaneously published in any other scientific or technical journal, written in English or French language but not limited to the following areas of research are considered for publication.

- ❖ Agricultural Sciences
- ❖ Biological Sciences
- Computer Sciences
- Environmental Sciences
- Mathematical Sciences
- Medical Sciences
- Physical Sciences
- Science Education and Technology.

PHILOSOPHY

In any knowledge-based system, the currency of exchange is information "To gauge the research temper of African people".

MANUSCRIPT

Manuscripts must be typewritten, doubled spaced on A4 paper with margins on both sides not exceeding twelve (12) pages, abstract and references inclusive.

- The title of the article should convey the topic of the research. Avoid words that add little to the meaningfulness of the article. E.g. "an empirical study of ...", "A field study of ..."etc, such words make the title too lengthy.
- ❖ The abstract should not exceed two hundred words and should contain the aim of the study, methodology, main ideas of the discussion, research findings and conclusion.
- * Research finding should be described in terms of intelligible to non-professionals/expert readers.
- ❖ The manuscripts are reviewed on the understanding that they are original and unpublished works of authors and are not considered for publication elsewhere.
- The title page should contain the Title of the Article, Names of the author(s) and Contact address(es), mobile phone number(s) and e-mail address(es) of the corresponding author(s).
- All references must have in-text citations and all in-text citations must reflect in the references.
- * References must be typed separately and inserted at the end of each article based on the APA referencing format.
- Figures, tables and drawing should be clearly shown and the position(s) marked in the article.

- ❖ The authors are responsible for preparing manuscript copy which is clearly written in **scholarly acceptable** English or French language and contains no spelling, grammatical or punctuation errors.
- ❖ Papers should be submitted in hard and electronic copies or electronic copy alone.
- ❖ The Editorial board reserves the right to accept or reject manuscript(s) where it/they fail to meet the international standard/requirement and such decision is final.

CONTACTS

Editorial correspondence(s) and enquiries address to:

Yonnana Ezekiel (PhD) Department of Geography Adamawa State University, P.M.B. 25 Mubi

Mobile: 234 (0) 8036627553; +234 (0) 8101751685

For online submission, address to adsujsr2012@gmail.com

For more information, search our web page.www.adsu.edu.ng.

OWNER

Faculty of Science,

Adamawa State University (ADSU) Mubi.

EDITOTORIAL BOARD

Editor-in-Chief

Dr. Solomon Mamuru

Editorial Consultants

Prof. A.A. Adebayo MAUTECH, Yola. Prof. D.I. Malgwi UNIMAID.

Prof. Felix Burari ATBU

Prof. J.T. Barminas MAUTECH, Yola. Dr. Mshelia Bello ATBU, Bauchi.

Editors

Prof. W.B Ndahi Crop. Sc. ADSU
Dr. U.A. Okoronka Sci. Edu. ADSU
Dr. Ibrahim Saidu Geog. ADSU

Dr. Philip A. Addas Animal Sc. UNI-Agric. Makurdi

Dr. I. Y. Sudi Biochem. ADSU Dr. Oliver N. Maitera Chem. MAUTECH. Dr. Ezekiel T. Williams Chem. ADSU Dr. E. Yonnana Geog. ADSU Dr. A. A. Zemba Geog. MAUTECH Dr. Joshua Sunday Math. ADSU Dr. T. G. Kassem Math.UNIJOS Dr. Gideon Bibu Comp. Sc. UNIJOS Dr. D. Y. Shingu Chem. ADSU Dr. Danladi Ali Physics ADSU Dr. L. G. Ndatuwong Physics ADSU Dr. Dale W. Medugu Physics ADSU.

Dr. J. Filgona

Dr. Asabe Ibrahim

Math. ADSU

Associate Editors

Mr. Albert Domo Bio. Sc. FU KASHERE

Mr. Toma Ibrahim Biochem. ADSU Mr. J. Wahedi Bio. Sc. ADSU

TABLE OF CONTENTS

Title page	i
Editorial Policy	ii
Editorial Team	iv
Table of Contents	V
Guide to Authors	vii
Assessment of Heavy Metal Pollution on Roadside Dusts from Selected Locations in Ilorin, Nigeria Using AAS Techniques. H. K Okoro, O.T Ogunsemoyin and Mohammed A.	1 - 12
Cloud-Based Mobile Learning for Higher Education in Nigeria: A Review	
Gambo Yusufu and Nachandiya Nathan	13 - 22
Comparative Evaluation of the Condition and Trends of some	
Rangelands in Adamawa State, Nigeria	
Khobe, D ¹ . And Akosim, C ²	23 - 32
Danzig's Simplex Approach to the Optimal Scheduling of Premium Motor Spirit Distribution in Nigeria Bawa M¹*., Omone A¹., Abubakar B²	33 - 40
bawa M ⁻ ., Omone A ⁻ ., Abubakar b ⁻	33 - 40
Delineation of Groundwater Potential Zones in Tanke Area of Ilorin, Southwestern Nigeria	
Olusegun Omoniyi Ige and Jacob Kola Ajiboye	41 - 51
Embryogenetic Studies of <i>Clarobranchus</i> Onyia, L.U, *1 Istifanus, D.D. 1 Ajijola, K.O1 and Duwal, S.D2.	52 - 57
Evaluation of habitat values for conservation of Olive Baboon (<i>Papio anubis</i> f.) at Kopre Game Reserve, Hong, Adamawa State, Nigeria.	
Joseph, J., Mohammed A.L., Mamman, G.S., Yaduma, Z.B. and Kwaga, B.T.	58 - 65
Evaluation of Nutrient and Anti-nutrient Components of Coffee Senna	
(Senna occidentalis (L)) Seed Meal in Mubi	
Augustine C*.,¹ Abdulrahman, B.S.,¹ Sudi I.Y.,² Zira S.P.,³	- 1
Kwari, I.D. ⁴ Tarimbuka, L.I., ⁵ Midiga, R., ¹ and Nyalas B.P. ⁶	66 - 71

Geoelectric Survey for Groundwater Exploration at Sagari Estate, Akure. South-Western Nigeria.	
Abubakar H.O ¹ , Bayode .S ² .Ige O.O ¹ Ajayi C. A ³ and Badmos. A.	.2 72 - 87
One-Step Computational Method for the Determination of Charge on Capacitors using the Hermite Polynomial Sunday, J*., Kwanamu, J. A. and Andest, N. J.	88 - 100
People Perception on the Impediments to the Development of Tourism in Mubi Region, Adamawa State Sunday Ozovehe*¹ Amos and Mshelia Alfred²	101 - 111
Phytochemical Screening and Mineral Content Assessment of the Extract of <i>Pachyrhizus erosus</i> Kangpe N. S, Ogbonna O. J, Audu O. M and Abu I. N	112 - 117
Radiometric and Photometric Investigations on some Table Water produced in Yola Metropolis, Northeastern Nigeria Odoh, Emmanuel O [†] and Shom, Fanen A	118 - 129
Response of Broiler Chickens fed on different commercial and On-farm formulated diets in Mubi and its Environs. Babale, D.M., ¹ Enan, S.C. ² and Muhammad, I.R. ³	130 - 137
Security Policy Verification for Internal Information Security Threats using Answer Set Programming	120 145
Gideon Bibu*1 and Julian Padget ²	138 - 147
Survey of Medically Important Fresh Water Snails in Numan and Mayo-Belwa Local Government Areas of Adamawa State, Nigeria. ¹Demshemino, P. H. M., ²Zaruwa, M. Z., ²Awi, M. ³Zainab, B. M.	148 - 153
The Golden Gravitational Field of a Static Homogeneous Oblate Spheroidal Massive Body Yakubu, N., ¹ Ibrahim, N., ² Lumbi, W. L., ³ Howusu, S. X. K. ⁴	154 - 162
Phytochemicals and Evaluation of Antibacterial Activities of <i>Combretum Fragrans</i> (Bush Willow) S. T., Magili, Y., Musa and C. A., Ternenge	163 - 170
Food Supplementation with Vitamin A in Nigeria: A Critical Review Moses Z. Zaruwa	171 - 178

GUIDE TO AUTHORS

Originality

ADSU Journal of Scientific Research is a journal for publication of original research articles from interested scholars and researchers in the academic community, international agencies, groups, individuals, institutions and other establishments concerning scientific approaches to sustainable development. Manuscript are critically reviewed and published annually. Articles not previously or simultaneously published in any other scientific or technical journal, written in English or French language but not limited to the following areas of research are considered for publication.

- ❖ Agricultural Sciences
- Biological Sciences
- Computer Sciences
- Environmental Sciences
- Mathematical Sciences
- Medical Sciences
- Physical Sciences
- Science Education and Technology.

Copyright

Submission of article for publication implies the transfer of the copyright from author(s) to the publisher upon acceptance. Accepted papers become the permanent property of the "Adamawa State University Journal of Scientific Research" and may not be reproduced by any means without the written consent of the Managing Editor or Editor-in-Chief.

Typescript

All manuscripts must be typewritten, font size 12, double spaced on A4 paper with margins on both sides, not exceeding twelve (12) pages, abstract and references inclusive. Receipts of paper will be acknowledged. Authors will be informed of the referees' report and rejected papers will be returned to the authors.

Manuscript Categories

- (i). Full length paper (maximum: 13 pages 50 references)
- (ii). Short Communication (maximum: 8 pages 25 references)
- (iii). Review (maximum: 40 pages 90 references)

Manuscript Preparation

Title of paper

The title of the article should convey the topic of the research. Avoid words that add little to the meaningfulness of the article. E.g. "an empirical study of ...", "A field study of ..." etc., such words make the title too lengthy

Names and address(es) of the Authors

The title page should contain the Title of the Article, Names of the author(s) and Contact address(es), mobile phone number(s) and e-mail address(es) of the corresponding author(s).

Abstract

The abstract should not exceed two hundred (200) words. Should be written in simple language, clear and concise and should contain the aim(s) of the study, methodology, main ideas of the discussion, research findings and conclusion. Abbreviations should be avoided and if used, should be explained at least once.

Keywords

A minimum of five (5) and maximum of six (6) keywords must be given at the end of the abstract.

Introduction

This should provide a general context for the work, explaining its significance and indicating why it should be of interest to scientist of other areas. Literature cited must be discussed to show the relationship between published work(s) and the research study.

Materials and Methods

Previously described methods should be cited and not elaborated upon. Details should be referred to literature cited. New approaches or methodologies should receive detailed attention. Statistical methods of treatment should be mention if used.

Results and Discussion

Results and Discussions should be combined. The original and important findings should be stated. Results should be illustrated with figures or tables where necessary but these should be kept to the minimum. The discussion should be highlight what is new in the research.

Conclusion

It should summarize the major findings that could be drawn, pointing out their significance and alluding possible future directions.

Acknowledgements

These should be presented at the end of the text and before the references. Technical assistance, financial assistance and advice may be acknowledged.

References

References should follow the current APA format.

Tables

Tables should be typed in separate sheet and numbers consecutively with Arabic numerals (e.g. Table 1, Table 2 etc). They have a short descriptive caption at the top.

Figures

Figures should be numbered consecutively with Arabic numerals (e.g. Fig. 1, Fig. 2 etc). Graphs should preferably be drawn using appropriate computer software and presented on single page ready to mount. These should be constructed in a manner that they understood without reading the text. Appropriate symbols should be used on graphs and explained in the legends. Graphs should not duplicate results presented in the tables. Photographs should be produced in black and white. Titles and comments of the figures and photographs should be provided on a separate page using MS word.

Units and Symbols

SI units should be used for physical quantities. Symbols, units and nomenclatures should conform to the recommendations of International Union of Pure and Applied Chemistry (IUPAC).

Manuscript Submission

Manuscripts should be submitted in hard and electronic copies or preferably electronic copy alone (e-mail) to the above address for publication.

We encourage more submissions from you subsequently.