



**ADAMAWA STATE UNIVERSITY  
JOURNAL OF SCIENTIFIC RESEARCH**

VOLUME 3, NO. 1, MAY 2015

ISSN:2251-0702

TETFUND/UNIBOKKOS/ARJ/3

*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

## **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. Manuscripts 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, double 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 findings 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- ❖ The manuscripts are reviewed on the understanding that they are original and unpublished works of authors and are not considered for publication elsewhere.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  
 Department of Geography  
 Adamawa State University,  
 P.M.B. 25 Mubi

Mobile: (+234) 08036627553.

For online submission, address to [adsujr2012@gmail.com](mailto:adsujr2012@gmail.com)

For more information search our web page. [www.adsu.edu.ng](http://www.adsu.edu.ng).

**OWNER**

Faculty of Science,  
Adamawa State University (ADSU) Mubi.

**EDITOR IN CHIEF**

Professor Mercy O. Bandele (ADSU), D Sc, PhD, M.Ed, LLB, BI.

**EDITORIAL CONSULTANTS**

Prof. A.A. Adebayo	MAUTECH, Yola.
Prof. D.I. Malgwi	UNIMAID.
Prof. J.T. Barminas	MAUTECH, Yola..
Dr.Mshelia Bello	ATBU, Bauchi.
Prof. A.H. Bichi	BUK

**EDITORS**

Prof. A.M. Gani	Bio. Sci. ATBU
Prof. W.B Ndahi	Crop. Sc. ADSU
Prof. G.M. Wajiga	Comp. Sci. MAUTECH
Prof. Saquib Mohammed	Bio. Sci. ADSU
Dr. U.A. Okoronka	Sci. Edu. ADSU
Dr. Ibrahim Saidu	Geog. ADSU
Dr. Philip A. Addas	Animal Sc. UNI-Agric. Makurdi
Dr.Arun Kumar Chourdhory	Math. ADSU
Dr. Felix Burari	Physics ATBU
Dr. Oliver N. Maitera	Chem. MAUTECH.
Dr. Ezekiel T. Williams	Chem. ADSU
Dr. A. A. Zemba	Geog. MAUTECH
Dr. Sam Musa	Math. MAUTECH

**ASSOCIATE EDITORS**

Dr. A.I Onen	Chem. ADSU
Dr. Dale W. Medugu	Physics ADSU.
Mr. Albert Domo	Bio. Sc. ADSU
Dr. Mohammed Jajua	Sc. Edu. ADSU

## TABLE OF CONTENTS

<i>Title page</i>	i
<i>Editorial Policy</i>	ii
<i>Editorial Team</i>	iv
<i>Table of Contents</i>	v
<i>Guide to Authors</i>	vii
A survey of Background Radiation Dose rates and Effective Dose in two selected mines in South-West Nigeria <b>Odoh, Emmanuel O. and Ajetunmobi, A. E</b>	1-9
Analysis of the Spatio-Temporal Dynamics of Mubi Area, Adamawa State, Nigeria <b>Peter, Y., Gadiga, B. L and David, N. F</b>	10-20
Analyses of Solid Waste Generation in Jimeta Town, Adamawa State <b>Tanko, S. B. and Anjorin, O. J.</b>	21-32
Drought Characteristics in the Savannah Region of Nigeria <b>Binbol, N. L, Adebayo, A. A and Zemba A. A</b>	33-50
Field and Laboratory Calibration of Water Content and Dielectric Permittivity of Pontian Peat Soil, Southwest Malaysia <b>Idi, B. Y and Kamarudin, M. N</b>	51-68
Hydro-geomorphic Implications of In-stream Sand Mining activity in a tributary channel of Asa River in Ilorin, Kwara State, Nigeria. <b>Iroye, K.A.</b>	69-83
Measurement of <sup>222</sup> Rn Concentrations in Mineral Processing Industries within Jos and Bukuru Mertopolis <b>Adetona .A. E, Mangset .E. W and Masok .F. B</b>	84-92
Natural Attenuation of an Oil-Polluted Soil after exposure to Compost <b>Ikhajiagbe, B., Anoliefo, G. O and Mshelmbula B. P</b>	93-109

- Physicochemical Analysis of Bread sold in Mubi Town of adamawa state. 110-118  
**Musa, Y. Alexander, P. Barminas, J. T. Ezekiel, W. T. and Magilli S.**
- Prevalence of *bla<sub>ndm-1</sub>* and *bla<sub>oxa-48</sub>* in multidrug resistant enterobacteriaceae (mdre) isolated from a tertiary hospital in North India 119-137  
**Filgona, J. and Banerjee, T.**
- Distribution of Organochlorine Pesticides Residue in Fish, Water and Sediment in Lake Gokra Adamawa State Nigeria 138-153  
**Shinggu, D.Y., Maitera, O. N. and Barminas, J.T**
- Aeromagnetic Mapping of Basinal Structures over part of Niger Delta, and its implication for Hydrocarbon Migration and Accumulation 154-167  
**Ali I., Edino F., Ibrahim K. O., Johnson L. M. and Folorunso I. O.**
- Phytochemical Analysis, some Elemental and Vitamins Composition of Blood Plum (*Anacardiaceae*) 168-176  
**Toma, I., Felix, D., Williams, E. T. , Magili, S. T and Kaigama, I**

## **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 submission from you subsequently.

***Address for Submission and Enquiries***

All enquiries should be addressed to:

**Yonnana Ezekiel**

Department of Geography

Adamawa State University,

P.M.B. 25 Mubi

Mobile: (+234) 08036627553.

For online submission, address to [adsujr2012@gmail.com](mailto:adsujr2012@gmail.com)