

**ASSEREN JOURNAL OF EDUCATION (AJOE)**



**A JOURNAL OF THE ASSOCIATION OF  
EDUCATIONAL RESEARCHERS AND EVALUATORS  
OF NIGERIA (ASSEREN)**

**ISSN 2504 - 9968  
online: ISSN 2814 - 3647**

**Vol. 9, No. 1, July 2024**


**ASSEREN JOURNAL OF EDUCATION (AJOE)**  
**A Journal of the Association of Educational Researchers and Evaluators of**  
**Nigeria (ASSEREN)**

All rights reserved

No part of this publication should be reproduced or transmitted in any form, or by any means, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system without written permission from the copyright owner.

© ASSEREN JOE, 2022

ISSN 2504 - 9968  
ISBN 2814 - 3647

*Printed by:*  
 Fab Anieh Nigeria Limited.  
Plot 7, Kabong Layout, near PW Construction Yard,  
Rock Haven, Jos, Nigeria.  
P.O. Box 1441, 930001 Jos, Plateau State  
Tel: 0703 229 8131, 0803 452 7025,  
E-mail: [fabanieh1976@gmail.com](mailto:fabanieh1976@gmail.com)

# **ASSEREN JOURNAL OF EDUCATION (AJOE) OFFICIALS OF THE ASSOCIATION**

## **PRESIDENT**

Name: Dr. Chinyere Ihekweba  
Institution: Alvan Ikoku University of Education, Owerri  
Email: chiihekweba@yahoo.com

## **VICE PRESIDENT**

Name: Professor Yusuf A. Mustapha  
Institution: University of Jos  
Email: bbsmusty@gmail.com

## **SECRETARY**

Name: Dr. Hamman Mathew Joseph  
Institution: Directorate of Research and Innovations  
Nigerian Army University, Biu  
Email: josephhamman@yahoo.com

## **ASSISTANT SECRETARY**

Name: Dr. Abdullahi Adamu Dan'inna  
Institution: Umaru Musa Yar'adua University, Katsina  
Email: abdullahi.adamu@umyu.edu.ng

## **TREASURER**

Name: Dr. Hager Atisi E. Amakiri  
Institution: Ignatius Ajuru University of Education, Port Harcourt  
Email: amakriatisi@yahoo.com

## **FINANCIAL SECRETARY**

Name: Dr. Christiana Ikpoyi Agi  
Institution: Joseph Sawuan Tarka University of Agriculture, Makurdi  
Email: ladyagi2@gmail.com

## **PUBLIC RELATIONS OFFICER**

Name: Dr. Richard Ogunka  
Institution: University of Port Harcourt  
Email: iheanyirichie@gmail.com

## **EX-OFFICIO MEMBER**

Name: Professor Henry o. Owolabi  
Institution: University of Ilorin  
Email: olumuyiwa.owolabi@gmail.com

## **CHIEF EDITOR**

Name: Professor Adams O.U. Onuka  
Institution: Institute of Education, University of Ibadan  
Email: ada.otuoze@gmail.com

## LIST OF CONTRIBUTORS

Ezekiel Olubayo Ojo, Ph.D.	Research, Measurements and Evaluation Unit Educational Foundations Department, Faculty of Education, University of Jos
Yusuf A. Mustapha, Ph. D.	Research, Measurements and Evaluation Unit Educational Foundations Department, Faculty of Education, University of Jos
Umaru Abdullahi, Ph.D.	Department of Education, Yobe State University, Damaturu, Yobe State
Terhemba Godwin Atsua, Ph.D.	Mutual Links & Data Services Ltd., Web 73 Academic Area, University of Maiduguri
Ikokide K.V.	accesslife100@gmail.com
Wali Agbowu F.N.	fawalin4you@gmail.com
Ndukwu F.C.	faithchinem@gmail.com
Florence Obiageli Ifeanyieze	Department of Agricultural/Home Science Education, Michael Okpara University of Agriculture, Umudike, Abia State
Clara Ukamaka Nwankwo	Department of Agricultural Education, University of Nigeria, Nsukka
Edward. C. Isiwu	Department of Agricultural Education, University of Nigeria Nsukka
C. U. Ene; C. O. Ezeanya	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
I. J. Okere	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
I. L. Okpara	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
S. B. Charles	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
T.O Ukwueze	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
A. D. Nnaji	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
J. J. Agah	Department of Science Education, University of Nigeria, Nsukka.

C. A. Ocheni	Esprmc, University of Alabama, Tuscaloosa, Al, USA.
I. J. Ezugwu	Esprmc, University of Alabama, Tuscaloosa, Al, USA.
A. D. Nnaji	Department of Science Education, University of Nigeria, Nsukka.
G. C. Nnenanya	Department of Science Education, University of Nigeria, Nsukka.
J. C. Eke	Department of Science Education, University of Nigeria, Nsukka.
B. C. E Ouguo	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
S. U. Nwani	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
E. A. Onoja	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
L. I. Anyiam	Department of Educational Psychology, Alvan Ikoku Federal College of Education, Owerri, Imo State, Nigeria
T. A. Odiniya	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
T. P. Nahanga	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
J. E. Aikoye	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
Thompson, Mfon Edet	Department of Educational Foundations Akwa Ibom State College of Education, Afaha Nsit
Abdullahi Adamu Dan'inna, Ph.D.	Department of Science and Vocational Education, Umaru Musa Yar'adua University, Katsina, Katsina State, Nigeria
Ihekwa Chinyere Ngozi, Ph.D.	Department of Educational Psychology, Alvan Ikoku University of Education, Owerri, Imo State, Nigeria
K. C. Nwani	Department of Science Education, Faculty of Education, Federal University of Kashere, Gombe State, Nigeria

A. O. Ukeje	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
C. K. Ugah	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
G. C. Asanga	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
Joshua Adamu	Department of Science Education, Faculty of Education, Federal University of Kashere, Gombe State, Nigeria
E.p. Okeke	Department of Science Education, Faculty of Education, University of Nigeria, Nsukka
Aminu Abubakar Danladi	Department of Educational Foundations, Nasarawa State University, Keffi, Nigeria
Agomuo John Kemdirim	Department of Educational Foundations, Nasarawa State University, Keffi, Nigeria
Osu Tanimu	Department of Educational Foundations, Nasarawa State University, Keffi, Nigeria
Naziru Aminu	Department of Science and Vocational Education, Umaru Musa Yar'adua University, Katsina, Katsina State, Nigeria
Amatari, Veronica O	Department of Educational Foundations, Faculty of Education
Kebbi, Janet A.	Niger Delta University, Wilberforce Island, Bayelsa State, Nigeria
Abrakasa, Roland	Niger Delta University, Wilberforce Island, Bayelsa State, Nigeria
Usman Mohammed	Federal College of Education, Jama'are, Bauchi State
Ezekiel Olubayo Ojo, Ph.D.	Department of Educational Foundations, Faculty of Education, University of Jos
Yusuf A. Mustapha	Faculty of Education, University of Jos, Nigeria
Unamba Eugene Chukwuemeka	Department of Primary Education Studies Alvan Ikoku Federal University of Education, Owerri
Dr Zita Opara	Department of Educational Psychology/ G/C Alvan Ikoku Federal College of Education, Owerri

Ezeonye Sussan.C.

Department of Educational Psychology/ G/C Alvan  
Ikoiku Federal College of Education, Owerri

Dr Duru Ngozi Damasisus

Department of Educational Psychology/ G/C Alvan  
Ikoiku Federal College of Education, Owerri

Dorcas Sola Daramola

Department of Social Sciences Education, University  
of Ilorin, Ilorin

## INSTRUCTIONS TO AUTHORS

The Journal of Education (JOE) publishes empirical and theoretical papers presented at the yearly Annual Conference of the Association of Educational Researchers and Evaluators of Nigeria (ASSEREN) which discuss conceptual, theoretical and methodological issues as well as original empirical works in education that are related to the Conference theme. The goal of the Journal is to bring together researchers, practitioners and stakeholders in education to focus on research and methods in education and establish collaboration in these areas. To develop a high quality manuscript, authors are advised to adhere to the following suggestions of the American Psychological Association (APA) Publication Manual (6<sup>th</sup> Edition, 2010).

For empirical papers, the main headings should consist of abstract, introduction and literature review, method, results, discussion, recommendations, conclusion and references; while theoretical papers should have an abstract, introduction, theoretical or conceptual framework and position, recommendations, conclusion and references.

Manuscripts should be typed double spacing and should not be more than 12 pages in Microsoft word, 12pts font size and Times New Roman, with adequate margins on A4 paper. An abstract of between 200 and 250 words with a maximum of eight keywords is required. Presentation of tables and figures should be in line with APA format and style.

### **Empirical Papers**

**Abstract.** The abstract for an empirical paper should provide a comprehensive summary of the article and should include the purpose, participants, procedures, major findings and conclusion; while the one for a theoretical paper should include the purpose, theoretical model, position and conclusion.

**Introduction and Literature Review.** The introduction and literature review should introduce the problem and describe previous research on the topic. There is need for relevant data for establishing existence of problem. Summary of literature review should be presented and existing gaps to be filled identified. At the end of the literature review, the purpose of the study should be stated as well as the research questions and hypotheses that will be addressed.

**Method.** A detailed description of methods and procedure adopted for a research study is required. Components to address here include the design, participants, instruments description, development and validation, procedure for administration of treatment in experimental study and how data are collected and analysed.

**Results.** Results of the study describes the outputs of data analysis. Present results in tables and figures where appropriate, according to the research questions and hypotheses that are addressed. Then interpret the findings without discussing them.

**Discussion.** The discussion section should relate the findings of study to earlier ones in literature in terms of similarities and differences. It should also present probable explanations to the findings as well as implications for theory and practice in the field of education.



**Recommendations.** The essence of recommendations is to base educational practice based on research findings. Recommendations should be directly related to the variables measured in the study. The answers to the research findings and results of test of hypotheses should guide researchers in making recommendations based on any study.

**Conclusion.** Conclusion should summarize the findings of the study and should be based on the purpose of the study.

**Reference.** All cited works in text must be referenced in alphabetical order according to APA format and style.

**Theoretical Papers.** For theoretical papers, the author should consider theoretical and practical applications of existing theories in Nigerian context. The researcher should ensure the feasibility of application of theoretical frameworks adopted within the cultural context and practical constraints of the education system in Nigeria.

**Introduction.** The problem and its importance should be clearly stated.

**Theoretical or Conceptual framework.** The theoretical or conceptual framework should be clearly explained and how it relates to the problem or topic.

**Position.** The author needs to describe his/her position on how a particular problem in education can be solved based on the theoretical or conceptual framework.

**Recommendations.** All recommendations should be based on the theoretical or conceptual framework or a new model developed by the researcher.

**Conclusion.** The findings of the paper should be summarized and presented as they relate to the modified or new model developed.

## EDITORIAL

The Association of Educational Researchers and Evaluators of Nigeria (ASSEREN) presents to its members and non-members alike volume 9 of the ASSEREN Journal of Education (AJoE). The articles included in the volume are well researched and pair-reviewed articles presented at the 25<sup>th</sup> Annual National Conference of the Association which was held from **July 10<sup>th</sup> to July 14<sup>th</sup> 2023** at Postgraduate Boardroom, Ignatius Ajuru University of Education, Rumuolumeni, Port Harcourt, Nigeria. The Theme of the Conference was **“Innovative Research and Assessment for National and Global Change”**.

The ASSEREN Journal of Education is a peer-reviewed Journal for publication of Original Theoretical papers that are presented during the annual conference of the association. This edition will provide the much-needed insights into professional issues and ethics in teaching and learning, and enhance quality education and assessment in Nigeria through research. The editorial board acknowledged the efforts of the editors, contributors, the executives of the Association and all others that have in one way or the other contributed immensely towards the actualization of the production of this Ninth edition of the Journal. Special thanks to the consulting editors who are distinguished senior citizens and also members of the association.