

**INTERDISCIPLINARY JOURNAL OF  
SCIENCE EDUCATION (IJ-SED)**

**Volume 2, Number 1, June, 2020**

**Copyright © Interdisciplinary Journal of Science Education (IJ-SED), 2020**

**ISSN: 2695-2054 (Print)**

**e-ISSN: 2659-1901 (Online)**

**All Rights Reserved:**

No part of this Journal may be reproduced, stored in a retrieval system, or transmitted in any form by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior permission of the Department of Science Education, Faculty of Education, University of Calabar, Calabar, Nigeria.

**Published by:**

Sunny-Tech Link & Logistic Concept  
Calabar – Nigeria.

**Tel:** +234 806 1587 467

**Email:** [sunnytechlinkandlogistic@gmail.com](mailto:sunnytechlinkandlogistic@gmail.com)

**Website:** [www.sunnytechlink.com](http://www.sunnytechlink.com)

## **EDITORIAL BOARD**

**Assoc. Prof. E. A. Edoho**

*Editor-in-Chief*

**Prof. (Mrs.) C. O. Ekwueme**

*Managing Editor*

### **SECRETARIAT**

Dr. (Mrs.) Anne Meremikwu

Dr. (Mrs.) C. Nja

Dr. (Mrs.) Hope Neji

Mr. Adie, Emmanuel B.

### **CONSULTING EDITORS**

**Prof. O. I. Erukoha**

*University of Calabar, Calabar – Nigeria*

*obinnaenukoho@gmail.com*

*+2348036744279*

**Prof. S. C. Uche**

*University of Calabar, Calabar – Nigeria*

*stephenuche@yahoo.com*

*+2348039799915*

**Prof. M. I. Kalu**

*University of Calabar, Calabar – Nigeria*

*Iroha7kalu@unical.edu.ng*

*+2348037182834*

**Prof. (Mrs.) A. E. O. Esu**

*University of Calabar, Calabar – Nigeria*

*akonesu@yahoo.com*

*+2348035517018*

**Prof. P. O. Agogo**

*Benue State University (BSU)*

*Poagogo2007@gmail.com*

*+2348037400785*

**Assoc. Prof. (Mrs.) A. Nwanekezie**

*University of Port-Harcourt*

*toniakezie@gmail.com*

**Prof. K. O. Usman**

*University of Nigeria, Nsukka*

*Layiusman@yahoo.com*

*+2347063003468*

**Prof. O. A. Ovute**

*Federal University of Agriculture, (Umudike)*

*ovutealphonsus@gmail.com*

*+2348037502261*

**Prof. I. Kyeleve**

*Benue State University (BSU)*

*iorhemenka@gmail.com*

*08075788732*

## **FROM THE EDITOR**

*Interdisciplinary Journal of Science Education (IJ-SED)* is an official publication of the Department of Science Education, University of Calabar, Calabar, Nigeria. The Journal was established to provide ample opportunity for members of the academia and other sectors to share ideas on educational matters and other areas of interest as to encourage innovations in education. IJ-SED also aims at creating a platform for members to disseminate their knowledge and research findings, amongst others. The Journal is peer-reviewed, and it undergoes thorough scrutiny for excellence and quality.

The Editorial Board is a composition of proven scholars in their various fields. The board embraces scholars from the length and breadth of Nigerian Universities.

IJ-SED is focused on providing quality service to its authors and the reading public through the use of technology. In addition to the traditional print version, the Journal is launching an online version which can be accessed through the link [www.openaccessglobal.com](http://www.openaccessglobal.com).

We appreciate all those whose works/articles are published here after undergoing a tedious review process. We also encourage those whose articles have not yet met our standard to understudy our reviewers' comments so as to produce articles that will qualify for the next volume.

Welcome to the second edition of *Interdisciplinary Journal of Science Education (IJ-SED)*.

**Assoc. Prof. E. A. Edoho**

*Editor-in-Chief*

*Interdisciplinary Journal of Science Education.*

## CALL FOR PAPERS/GUIDELINES FOR AUTHORS

Authors and researchers are hereby invited to submit quality scholarly articles in science and science related fields, general education, and any other discipline, for publication in our quality peer-reviewed journal.

The Interdisciplinary Journal of Science Education (IJSED) has both print and online versions. It is globally visible. Authors will benefit from real time access through the provision of the published articles on our online platform which is open access and free to users/researchers. Accepted articles will be published online at [www.openaccessglobal.com](http://www.openaccessglobal.com).

### Guidelines to Authors

Authors are encouraged to follow the underlisted guidelines:

- The front page of the article should contain detailed information of the author with a functional phone number, email address and affiliates, while the abstract/main article should begin from the second page.
- The abstract should not be more than 220 words, typed in single line spacing, with not more than six keywords.
- The surname of the author(s) should be in bold font.
- The main article should not be more than 15 pages.
- Times New Roman font (12 points) and double line spacing should be used.
- Authors should use indented paragraphing style.
- Articles must be based on well-researched empirical studies.
- Position papers must be with appropriate and relevant subheadings, without numbering.
- Articles must be written in clear and coherent English.
- The APA (American Psychological Association) referencing style should be used.
- Articles must be submitted in typed duplicate copies and a soft copy (in a rewritable CD plate).
- All correspondence should be sent to the secretary or Editor-in-Chief, Interdisciplinary Journal of Science Education (IJSED), Department of Science Education, University of Calabar, Calabar.
  - i. [edohoemmanuel@yahoo.com](mailto:edohoemmanuel@yahoo.com)
  - ii. [emmaadie40@yahoo.com](mailto:emmaadie40@yahoo.com)
- A final corrected copy of an accepted article must be submitted on a CD-ROM or sent by E-mail as an attached file accompanied by N20,000, payable to **Science Education Department**, Account Number: **0110419389 @ Unical Microfinance Bank, University of Calabar**.

## CONTENTS

Effects of Constructivist Method of Teaching Basic Science and Mathematics on the Academic Performance of Junior Secondary Students' in Calabar Municipality, Cross River State, Nigeria. <b>Adie, Emmanuel Benimpuye; Obi, Joy Joseph; Okri John Arikpo &amp; Ogbe Alphonsus Okori</b>	1-9
The Impacts of Political Mathematics on the Endsars Protest and Agitations in Nigeria <b>Orim, Richard Ekonesi (Ph.D) &amp; Egwo, Prince Michael</b>	10-13
Marital Status and Mathematics Teachers' Instructional Delivery in Secondary Schools in Obubra L.G.A., C.R.S. <b>Orim, Richard Ekonesi (Ph.D) &amp; Egwo, Prince Michael</b>	14-20
Comparative Effect of Problem-Based Learning and Concept Mapping Teaching Strategies of Senior Secondary Students and their Achievements in Chemistry <b>Oli, Maryrose Tochi &amp; Obi Joy Joseph</b>	21-28
Concept Mapping Teaching Strategy and Students' Academic Achievement in Chemistry in Calabar Municipality Cross Rive State, Nigeria <b>Oli, Maryrose Tochukwu &amp; Anari, Mary Ideba</b>	29-37
Effect of Youtube-Enhanced Instructional Strategy on Secondary School Students' Achievement in Mathematics <b>Toinpere Mercy Frederick-Jonah Ph.D; Nateinyin Joy Akporehwe Ph.D &amp; Epretari JONAH</b>	38-44
Evaluating the Implementation of the Mathematics Curriculum in Akamkpa Local Government Area of Cross River State <b>Emmanuel Asuquo Edoho, Ph.D; Uwase Uwase Esuong &amp; Ekaette Asuquo Edem</b>	45-50
Audio-Tape Instructional Package and Learners' Performance in Spoken English at Primary Level Of Education in Nigeria <b>Asuquo, Eno Ndarake</b>	51-61

The Use of Social Media (ICT) Sites by Senior Secondary School Students in the Teaching and Learning of Biology in Akwa Ibom State, Nigeria. <b>Ntukidem, Ime Uduak; Asuquo, Eno Ndarake (Ph.D) &amp; Inyang, Esther Romanus</b>	62-73
ICT Competence among Trainees on Online Assessment in Africa: A Case Study of the University of Calabar, Nigeria <b>Asuquo, Eno Ndarake (Ph.D)</b>	74-83
Effect of Problem-Based Learning Strategy on the Academic Achievement and Retention of SSII Chemistry Students in Calabar Education Zone <b>Oli, Maryrose Tochukwu &amp; Ihejimba, Regina</b>	84-89
Effect of Concept Mapping and Gender on Students' Academic Achievement in Physics in Calabar Education Zone of Cross River State, Nigeria <b>Agube, C. C.; Ntibi, J. E. E. &amp; Neji, H. A.</b>	90-102
Relationships and Conflict Management in Organisations in Nigeria <b>Udeme Akaninyene Umo</b>	104-108
Personal Variables and Hygiene Practices among Secondary School Students in Calabar Education Zone, Cross River State, Nigeria <b>Stephen Ushie Akpa &amp; Levi O. Akah, Ph.D</b>	109-116
Teachers' Professional Role in the Development of Academic Integrity Among Primary School Pupils in Calabar South Local Government Area of Cross River State, Nigeria <b>Odey, Samuel Eburu &amp; Ukah, Julius Ukah (Ph.D)</b>	117-124
Teaching Practice Experiences and Teaching Effectiveness of Science Students-Teachers. <b>Nja, Cecilia Obi (Ph.D), Sampson, Rose Sunday</b>	125-133
Effect of School Location on Students' Academic Performance in Mathematics in Calabar Municipality Local Government Area of Cross River State, Nigeria. <b>Emmanuel Asuquo Edoho; Inah, Joseph Odey Okorie, Henry Emeka</b>	134-138



### **LIST OF CONTRIBUTORS AND THEIR AFFILIATES**

**Adie, Emmanuel Benimpuye**

*Department of Science Education, University of Calabar.*

**Obi, Joy Joseph**

*Department of Science Education, University of Calabar.*

**Okri, John Arikpo & Ogbe Alphonsus Okori**

*Department of Science Education, University of Calabar.*

**Orim, Richard Ekonesi (Ph.D)**

*Department of Science Education*

*Faculty of Education, University of Calabar,*

*Calabar, Nigeria.*

**Egwo, Prince Michael**

*Department of Science Education*

*Faculty of Education, University of Calabar,*

*Calabar, Nigeria.*

**Oli, Maryrose Tochi**

*Department of Science Education*

*Faculty of Education, University of Calabar*

*Calabar*

**Anari, Mary Ideba**

*Department of Science Education*

*Faculty of Education, University of Calabar*

**Toinpere Mercy Frederick-Jonah, Ph.D**

*Department of Science Education, Niger Delta University,*

**Nateinyin Joy Akporehwe, Ph. D**

*Department of Science Education, Niger Delta University,*

*Wilberforce Island, Bayelsa State*

**Epretari Jonah**

*Department of Computer Science, University of Lagos*

*Akoka, Lagos.*

**Emmanuel Asuquo Edoho, PhD**

*Department of Science Education  
(Mathematics Education Unit)  
Faculty of Education*

**Uwase Uwase Esuong**

*Department of Science Education  
(Mathematics Education Unit)  
Faculty of Education*

**Ekaette Asuquo Edem**

*Department of Science Education  
(Mathematics Education Unit)  
Faculty of Education*

**Asuquo, Eno Ndarake**

*Department of Curriculum and Teaching  
(Educational Technology Unit)  
Faculty of Education, University of Calabar  
Cross River State-Nigeria*

**Oli, Maryrose Tochukwu**

*Department of Science Education  
University of Calabar, Calabar, Nigeria*

**Ihejimba, Regina**

*Department of Science Education  
University of Calabar, Calabar, Nigeria*

**Agube, C. C.**

*Department of Science Education  
University of Calabar, Calabar, Nigeria*

**Ntibi, J. E. E.**

*Department of Science Education  
University of Calabar, Calabar, Nigeria*

**Neji, H. A.**

*Department of Science Education  
Faculty of Education  
University of Calabar, Calabar, Nigeria*

**Udeme Akaninyene Umo**

*Department of Educational Foundations  
University of Calabar, Nigeria*

**Stephen Ushie Akpa**

*Department of Human Kinetics and Health Education,  
Faculty of Education, University of Calabar,  
Calabar, Cross River State, Nigeria.*

**Levi O. Akah, Ph.D**

*Department of Human Kinetics and Health Education,  
Faculty of Education, University of Calabar,  
Calabar, Cross River State, Nigeria.*

**Odey, Samuel Eburu**

*Department of Curriculum and Teaching  
University of Calabar*

**Ukah, Julius Ukah (Ph.D)**

*Department of Curriculum and Teaching  
Faculty of Education, University of Calabar*

**Nja, Cecilia Obi (Ph.D)**

*Department of Science Education, University of Calabar*

**Sampson, Rose Sunday**

*Department of Science Education, University of Calabar*

**Inah, Joseph Odey**

*Department of Science Education, University of Calabar, Calabar.*

**Okorie, Henry Emeka**

*Department of Science Education, University of Calabar, Calabar.*