ISSN: 1116-753X (Print) E-ISSN: 2955-084X (Online)

# NIGERIAN JOURNAL OF ECOLOGY

**Volume 19 Number 2 (July – December 2023)** 

Publisher: *Ecological Society of Nigeria* 

# **Nigerian Journal of Ecology**

Volume 19 Number 2 (July – December 2023)

ISSN: 1116-753X (Print); E-ISSN: 2955-084X (Online)

Publisher:

Ecological Society of Nigeria

Editor-in-Chief: Dr. O. S. Olubode Website: http://nigerianjournalofecology.org/

### Editorial Board:

Professor (Mrs.) Mary O. Agbogidi, Dept. of Botany, Delta State University, Abraka, Delta State, Nigeria. Dr. Ejikeme Albert, Plant Science and Biotechnology, University of Port-Harcourt, Port-Harcourt, Rivers State, Nigeria. Dr. Clement O. Ogunkunle. Dept. of Plant Biology, University of Ilorin, Ilorin, Kwara State, Nigeria.

Business Manager: Prof. A. O. Oladoye

Production Team:

Dr. O. S. Olubode Prof. R. O. Awodoyin Mr. H. A. Badmus

Journal Secretariat: c/o Department of Crop Protection and Environmental Biology,

Faculty of Agriculture, University of Ibadan, Nigeria.

# The Ecological Society of Nigeria

## **National Officers and Board of Trustees**

National President: Treasurer:

Professor R. O. Awodoyin Dr. O. J. Oyelowo Board of Trustees:

Professor Samson O. Oke, Obafemi Awolowo Univeristy, Ile Ife.

Professor Sunmaila S. Sanusi, University of Maiduguri, Bornu. Vice-President: Business Manager:

Professor Mary O. Agbogidi, Delta State University, Abraka.

Professor Rabiu U. Aliyu, Uthman dan Fodiyo Univeristy, Sokoto.

Professor Christian O. Nwoko, Fed. University of Tech., Owerri.

Dr. Ayodele A. Oyedeji Dr. O. S. Olubode Professor Celestine U. Aguoru, Fed. University of Agric., Makurdi.

Professor Rasheed O. Awodoyin, University of Ibadan, Ibadan.

Public Relations Dr. Ayodele A. Oyedeji, Niger Delta University, Bayelsa. Financial Secretary:

Dr. Albert Ejikeme Officer:

Professor F. B. G. Tanee

National Secretary:

Dr. C. U. Okolie

Editor-in-Chief:

The Ecological Society of Nigeria was founded in 1973. The objects of the Society are to advance the education of the public, and to advance and publish research in the subject of ecology as a branch of natural science, holds regular conferences, seminars and workshops on ecology related themes and publishes the proceeding of such conferences and Nigeria Journal of Ecology. Membership of the society is opened to all, whether or not they reside in Nigeria, who are genuinely and personally interested in Ecology and wish to receive the society's Journal or Proceedings for their own use. The minimum subscription for membership is \$\frac{\pmathbf{Y}}{2}\$, 000. 00, subject to review from time to time. This entitles members to attend the meetings and make use of other facilities that the society may offer, to vote in the election of council and officers and to be eligible for election to council and offices. For this subscription, a member is entitled to a copy of each of the Journal and the Proceedings.

Full details of membership and an application form may be obtained on request from the Secretary (+234 803 808 5958).

# Nigerian Journal of Ecology ISSN: 1116-753X (Print), E-ISSN 2955-084X (Online)

# **Contents**

# Volume 19 Number 2 (July – December, 2023)

<b>Ibrahim, S.E., Ochekwu, E.B. and Ngobiri, N.C.:</b> ALLELOPATHIC ACTIVITY OF FOLIAR EXTRACT OF <i>Chromolaena odorata</i> ON GERMINATION OF <i>Solanum lycopersicum, Citrullus lanatus, Abelmoschus esculentus</i> and <i>Mucuna pruriens</i>	1
Ayodele Adelusi Oyedeji, Oluseye Faith Oyedeji and Olanike Olasumbo Olubayo: PHYTOREMEDIATION: GERMINATION AND GROWTH OF <i>Peltophorum pterocarpum</i> (DC.) Baker ex Heyne IN CRUDE OIL-CONTAMINATED SOIL	10
Orodele, Oluwaseun Joshua, Awodoyin, Rasheed Olufemi and Olubode, Oluseun Sunday: EVALUATION OF FARMERS' PERCEPTION ON DAMAGES TO MAIZE BY VILLAGE WEAVERBIRD ( <i>Ploceus cucullatus</i> Muller) IN SASA-AJIBODE AGROECOSYSTEM, IBADAN, SOUTHWEST NIGERIA	20
Ige, P. O. and Adesina, A. S.: TREE SPECIES DIVERSITY AND GROWTH CHARACTERISTICS IN THE UNIVERSITY OF IBADAN BOTANICAL GARDENS, IBADAN, NIGERIA	33
Adeniyi, A. O. Akinwole, A. O. and Sunday, Y. A.: WATER QUALITY STATUS OF LOWER RIVER NIGER, AGENEBODE, EDO STATE, NIGERIA	44
Amadi, G. O, Nnadi, P.C, Augustus, M. U.: ASSESSMENT OF DEFORESTATION IMPACT ON LIVELIHOODS OF RURAL DWELLERS IN ETCHE LOCAL GOVERNMENT AREA OF RIVERS STATE, NIGERIA	54
Ishaku, A. H., Yusuf, Z. A., Ali, M. E., Idris, H. A., <sup>4</sup> Salisu, A. S., Inah, N. U., Yusuf, S. K., Ahmed, Y.: LETHAL AND TOLERANCE CONCENTRATIONS OF CHLORAMPHENICOL TO THE FINGERLINGS OF AFRICAN CATFISH: <i>Clarias gariepinus</i> (Burchell, 1822)	63
Wahab Abideen Akinkunmi, Iyanuoluwa Ayobami Oyebanji, Nana Aisha Yusuf-Omoloye, Habibat O. Ajigbewu, Muibat Folasade Adeyemi, Dare Alabi Peter: WATER PURIFICATION AND ANTIMICROBIAL EFFICACY OF <i>Moringa Oleifera</i> DRIED AND MACERATED SEED	69
<b>Tajudeen B. Akinrinola., Olufunto T., Adedokun and Adebayo A., Olowoalake:</b> PERFORMANCE OF AFRICAN SCARLET GARDEN EGG AND ASSOCIATED SOIL MICROBIAL POPULATIONS AS AFFECTED BY SINGLE SUPER PHOSPHATE FERTILISER IN IBADAN, NIGERIA	82
Wahab Abideen Akinkunmi., Akinleye Grace Oluwabusola., Dare Alabi Peter., Nana Aishat Yusuf-Omoloye., Adeyemi Muibat Folasade: ASSESSMENT OF CRUDE EXTRACT OF PLEUROTUS PULMONARIUS FOR LARVICIDAL EFFICACY AGAINST FEMALE ANOPHELES MOSQUITO LARVAE	96
Udeagbala, T. N., Ochekwu, E. B., Ogazie, C. J.: DIVERSITY AND COMPOSITION OF SOIL SEED	111
BANKS IN SELECTED MAIN ROADSIDES IN PORT HARCOURT METROPOLIS, NIGERIA  Ehika Joseph Ighodaro and Raymond Nduweze Opeh: SEDIMENTOLOGICAL, BIOSTRATIGRAPHIC	118
AND WIRELINE LOG ANALYSIS OF ELE-1 WELL, NIGER DELTA BASIN, NIGERIA	110
Aliyu Mohammed, Anas Aliyu Umar and Zikrullah A. YusufCHECKLISTS OF MEDICINAL	131
PLANTS USED FOR TREATING SNAKEBITES AND SOCIO-ECONOMIC CHARACTERISTICS	
OF ENVENOMATION HERBALISTS IN NORTH-EASTERN NIGERIA	

# Nigerian Journal of Ecology ISSN: 1116-753X (Print), E-ISSN: 2955-084X

### **Instruction to authors**

**Scope of Journal:** The Ecological Society of Nigeria [ECOSON] publishes Nigerian Journal of Ecology which covers researches in all aspects of both plants and animals, in aquatic and terrestrial ecosystems. Descriptive, experimental, theoretical and in-depth review articles and position papers are acceptable.

Manuscripts: Manuscript should be typed in double spacing with at least 2.54 cm margins on all sides. The pages should be numbered consecutively including those containing acknowledgement, references, tables and figure legends. Manuscript must be in English and spelling should conform to the Concise Oxford Dictionary of Current English. Text should be typed in Microsoft Word 98 and above. Editors reserve the right to modify manuscripts that do not conform to scientific, technical, stylistic or grammatical standards and minor modifications of this nature will normally be seen by authors only at the proof stage. The manuscript should be emailed to the Editor-in-Chief at njeeditor@gmail.com. Manuscript, whether accepted or refused by the editors may be returned to the authors. Do not send original figures until the paper has been accepted. Receipt of manuscript will be notified within three months Further enquires may be made at the Journal Secretariat:

Department of Crop Protection and Environmental Biology, University of Ibadan, Ibadan, Nigeria.

Refereeing: All papers are subjected to peer refereeing. If a paper is returned for revision, the correspondence author should return two hard copies of the revised manuscript and the diskette within two months. Otherwise, revisions may be treated as new submissions and sent for further evaluation. Papers are typeset from author's diskette. Galley proofs will be sent to the corresponding author's address as given on the title page. Alteration in the text other than printer's errors may be charged to the author. The editors reserve the right to correct proofs themselves, using accepted version of the manuscript if the authors corrections are overdue and the journal will be otherwise delayed.

### Page charge:

There is a page charge of N20,000.00 for publishable paper after acceptance. A Handling/Referring fee of N5,000.00 must, however accompany the manuscript on submission, with proof of payment emailed to njeeditor@gmail.com. However, if the paper is recommended for further review, it will be re-submitted with N3,500.00. The charges are subject to review. All papers accepted for publication become the *copyright of the Ecological Society of Nigeria* 

**Offprint:** A copy of the Journal will be given to the corresponding author of each paper and additional copies may be purchased at current rates.

**Preparing the Paper:** A standard paper should not exceed 10 printed pages and should be divided into Abstract, Introduction, Materials and Methods, Results, Discussion (or merging Results and Discussion), acknowledgements (very brief if necessary) and References.

Articles cited in the text are referred to by author's name and year of publication e.g. Sanford (1987). Articles by up to three

authors should be abbreviated e.g. Sola et al., (1987) or (Sola et al., 1987).

Title page must contain a concise and informative title (as short as possible), a list of authors names and addresses of institutions and a running title of not more than 45 characters. The abstract (not exceeding 350 words) must be followed by key words (not exceeding five words), arranged alphabetically and excluding words used in the title. The references should be in alphabetical order with the Journal names unabbreviated. The format for papers, entire books and chapters in books, is as follows:

Barber, N. and Harrod, J. O. (1997). Strategies for assessing animal population dynamics. *Journal of Animal Biology* **79**:56-64

Gates, D. R. (1980). *Bio physical Ecology*. Springer Verlag, Berlin.

Susan, R. M. (1985). Population dynamics of five species of *Vernonia* in natural habitats. *Physiological Ecology* (eds. C. R. Townsend and Pcarlow) pp. 109-139.

References should only be cited (in press) if the paper has been accepted for publication. Other references should be cited as "unpublished" and not included in the list. One copy of any paper cited "in press" must be included with the manuscript so that it can be seen by the editors. Work not yet submitted for publication may be cited in the text and attributed to its authors as "full author's name, unpublished data".

Tables, Figures and Plates: Do not present the same data in both figure and table form. Table must be presented in Microsoft word using appropriate number of columns and rows. Figures in the form of line diagrams should be drawn or laser printed in black and white on white paper or on good quality tracing paper. Where possible, they should not be bigger than A4 and designed appropriately if they are to be reduced in size for publication. Photographs should be black and white in glossy prints of good contrast. Four copies should be submitted with the manuscript. Colour photographs may be allowed where the author is prepared to contribute to the cost of inclusion.

**Units, Symbols and Abbreviations**: Authors are requested to use the International System of Units (SI) for all measurement. Note that mathematical expressions should contain symbols not abbreviations. If the paper contains many symbols, it is recommended that they should be defined in the materials and methods section.

Scientific Names: Give Latin names of each species in full together with the authority for the name at first mention in the main text. If there are many species, cite a Flora or Checklist which may be consulted for authorities instead of listing them in the text. Do not give authorities for species cited from published references. Give priority to scientific names in the text (with colloquial name in parentheses if desired).

Numbers in Text: Numbers from one to nine should be spelt out except when used with units e.g. two eyes; 10 stomata; 5°C:

**Editorial Team**