# Journal of Natural Sciences, Engineering and Technology

**Formerly - ASSET: An International Journal (Series B)** 

**Journal of Natural Sciences, Engineering and Technology** provides an appropriate medium for disseminating high quality and original research findings, critical topical reviews, technical notes/short communications on emerging technologies and innovations among researchers worldwide and promoting scholarship. All papers published in the Journal are independently peer-reviewed by selected referees on the recommendations of the Editor-In-Chief on behalf of the Editorial Board.

**Editor-In-Chief:** Professor Chryss F.I. Onwuka **Editor:** Professor M. Kadiri

Postal Address: FUNAAB Journals Management Office,
Federal University of Agriculture, P.M.B 2240, Abeokuta, Ogun State, Postcode 110001, Nigeria.

E-mail Addresses: unaabassetjournal@unaab.edu.ng, unaabasset@yahoo.com
Phone Numbers: +2348033376854; +2348139183107; +2348138456373

#### **Editorial Board**

**Professor C.F.I. Onwuka,** Ph.D., M.Sc., B.Sc. FNSAP Department of Animal Nutrition, Federal University of Agriculture, Abeokuta, Nigeria.

**Professor M. Kadiri,** Ph.D., M.Sc., B.Sc. Department of Biological Sciences, Federal University of Agriculture, Abeokuta, Nigeria.

**Professor A.B. Adewumi,** Ph.D., M.Sc., B.Sc. Department of Agricultural Engineering, Federal University of Agriculture, Abeokuta, Nigeria.

**Professor M.O. Iwe,** Ph.D., M.Sc., B.Sc. Department of Food Science and Technology, Michael Opara University of Agriculture, Umudike, Nigeria.

**Professor (Mrs.) O. Eromosele**, Ph.D., M.Sc., B.Sc. Department of Chemistry, Federal University of Agriculture, Abeokuta, Nigeria.

**Professor L.O. Sanni,** Ph.D., M.Sc., B.Sc. Department of Food Science and Technology, Federal University of Agriculture, Abeokuta, Nigeria.

**Professor I. Funtua,** Ph.D., M.Sc. B.Sc. Centre for Energy Research and Training, Ahmadu Bello University, Zaria, Nigeria.

**Professor Zibokeri,** Ph.D., M.Sc., B.Sc. Niger Delta University, Wilberforce Island, Bayelsa State, Nigeria

#### **Editorial Officers**

Mrs. S. Odunaro, -PGDM., B.Sc. (Ed), NCE Mrs. O.O. Ayoola - Secretary Mr. O.I. Adebisi, -Editorial Assistant

## **International Editorial Advisory Board**

Professor Sandro Scandolo, Italy Professor Alessandro Laio, Italy Professor Joel Koech, Kenya Professor Jerome Nriagu, USA Dr. Arch. Barnabas Nawangwe, Uganda

Dr. Tomlins Keith, UK

Dr. Olaniran Fasina, USA Dr. (Mrs.) Prajeab Jammne, India

Mr. V. Prakash, India

### **Subscriptions**

Publications are sold at N1,500.00 per issue. Overseas requests at \$50 (or equivalent) per issue inclusive of postage and packing; subscription prices and discount terms are subject to review by the Editorial Board.

**Publication Frequency -**Two times in a year

Funded by Tertiary Education Trust Fund (TETFUND)

website: www.unaab.edu.ng/asset