**** **CURRICULUM VITAE**

1. **Name:** **ALABI Kazeem Adelani**

2. **Present Position:** **Associate Professor**

3. **College/Department:** Natural and Applied Sciences/ Chemical Sciences

4. **Place and Date of Birth:** Ilobu, Osun State 03/03/1972

5. **Nationality:** Nigerian

6. **State of Origin/Local Govet Area:** Osun State/Irepodun

7. **Marital Status:** Married

8. **Number and Ages of Children:** 5(15, 13, 11, 8 and 6 years)

9. **Residential Address:** Jagun’s Compound. Ilobu

10. **Address for Correspondence:** Dept. of Chem. Sci. Fountain Univ., Osogbo.

P.M.B. 4491, Oke-Osun, Osun State, Nigeria

Telephone No: +2348034705605 Mobile: +234984620208

**Institutional e-mail Address:** alabi.kazeem@fuo.edu.ng

11. **Educational Institutions attended with dates**

i. 2016 Federal University of Technology, Akure, Ondo State

ii. 2010 Federal University of Technology, Akure, Ondo State

iii. 2001 Federal University of Technology, Akure, Ondo State

iv. 1995 Osun State Polytechnic, Iree, Osun State, Nigeria

12. **Academic Qualifications obtained with dates**

i. 2016 Ph.D Organic Chemistry

ii. 2010 M.Tech Industrial Chemistry

iii. 2001 B.Tech Industrial Chemistry

iv. 1995 OND Science Laboratory Technology

v 1989 WAEC Senior Secondary School Certificate

13. **Professional Qualification(s) with dates:** Nil

14. **Training/Professional Courses attend with dates**

2018 Train the Trainers Chemical Security workshop held at Centre for Nuclear Energy Studies, University of Port Harcourt. Port Harcourt.

1. **Membership of Professional bodies/societies**

i. 2001 American Chemical Society (ACS) Member Full

ii. 2018 Nigerian Chemical Society (CSN) Member Full

1. **Work Experience with dates**

**a. Work experience in the University**

**Courses taught:**

**Course taught at the University Level (FUO)**

i. **Undergraduate Programmes (B. Sc. Industrial and Environmental Chemistry from 2011-date)**

CHM - Introductory Experimental Chemistry I

CHM - Introductory Experimental Chemistry II

CHM - Organic Chemistry

CHM - Aromatic and Heterocyclic Chemistry

CHM - Introductory Material Science

CHM - Organic Synthesis and Reaction

CHM - Industrial Law and Management

CHM - Glass Blowing Technique

CHM - Petroleum Chemistry

CHM - Industrial Drawing

CHM - Heat Transfer

ii. **Postgraduate Programmes (2015 - date)**

a. **(M. Sc. Industrial Chemistry)**

CHM - Separation Technique

CHM - Petroleum Chemistry

CHM - Advanced Spectroscopy

CHM - Experimental Chemistry

b. **(M. Sc. Organic Chemistry)**

CHM - Petroleum Geochemistry

CHM - Advanced Organic Spectroscopy

CHM - Experimental Chemistry

CHM - Advanced Natural Product

CHM - Reactive Intermediate

c. **(PGD Chemistry)**

CHM - Organic Reaction and Synthesis

CHM - Separation Technique

CHM - Experimental Chemistry

CHM - Petroleum Chemistry

CHM - Natural Product Chemistry

**Undergraduate Project supervision:**

I have supervised thirteen (13) undergraduate projects (2011-2018), one ongoing

**Postgraduate Project/thesis supervision:**

**PGD Project:**

i. AJIBOLA, Tawa, **(2017)** Synthesis, Characterization and Spectroscopic study of the Solvent effect on the electronic absorption spectra of 3,5-dinitrosalicylic acid derivatives. Completed. Co-supervised with Dr. ADEOYE, D. Mariam. **Graduated 2018**

**M. Sc. Projects:**

i.AJIBOLA, O. Kazeem. Synthesis, Characterization and Wood-Protective Potential of Carboxylates, Urea And Thiourea Complexes derived from Tallow, Bees wax and Shea Butter. **Graduated 2019**

ii. ASHIRU, O. Nafiu. Experimental and Theoretical Characterization of Synthesized Chalcones and their termiticidal application. **Graduated 2021**

|  |
| --- |
|  |

iii. BELLO, Y. Monsurat. Dyeing of cotton and wool fabrics with *Pycnanthus*

*angolensis* sap using different mordanting methods. **Graduated 2021**

iv Taofeeq Abdul Razaq, Synthesis, Characterization and DFT studies of bis-imine

derivatives. **On going**

b. **Work experience  in  other organisation(s)**

i. 1999: SIWES programme, Lagos State water cooperation, Ishasi branch

ii. 2001-2002: NYSC programme, Ajaokuta Steel Company Staff Secondary School, Ajaokuta, Kogi State as Chemistry, Integrated Science and Islamic Religion Knowledge tutor.

1. **Details of Administrative and Leadership Experience in the University system**

a. **Administrative experience (Deanship, HOD etc)**

i. Ag. HOD 2021 till date

ii. Venture Chairman 2019 till date

b. **Other appointments in the University**

i. 2021 Member: Committee on colloquium

i. 2020 Member: Committee on missing diesel

i. Aug. 7 2019 President: FUO Islamic Cooperative, Investment and Credit Society.

ii. 2019 Internal Assessor for M.Sc. Microbiology- AKINLADE, Y. Ridwan- **NAS/11020**

**Title:** Antimicrobial and Radical Scavenging activities of *Nepeta*

*cataria* L. Silver nanoparticle and crude extract.

iii. 2019-date Chairman, Committee on laboratory matters

iv. 2018-2019 Departmental Examination Officer

v. 2018-date Member, CONAS investigative committee

vi. 2018-date Chairman, FUO venture board committee

vii. 2018-date member, Pre-degree and professional programmes committee

viii. 2017-2018 Chaiman, minor works committee- FUO

ix. 2017 Internal-external PG rep. for M. Sc. Microbiology Students:

a. SANUSI, O. Tawakalit- **NAS/15134**

**Title:** Antimicrobial susceptibility profile of Raw Bovine meat bacterial isolates from Osogbo metropolis

b. ELEGBEDE, F. Fatimah- **NAS/15133**

**Title:** Prevalence and Antibiotic sensitivity profile of Pathogenic bacterial isolated from frozen herring.

x. 2017 Coordinator, Departmental research

xi. 2017 Chairman, loans and businesses review committee

xii. 2017-date member, CONAS lecture series committee

xiii. 2017-2018 member, Ali Luxury Hostel management committee

xiv. 2016-2018 staff representative on laboratory matters

xv 2016-date Auditor, College of Natural and Applied Sciences

xvi. 2016-2018 member, Curriculum development committee

xvii. 2016-2017 member, Research committee

xviii. 2016-2018 Coordinator, Industrial and Environmental Chemistry unit

xix. 2015-2016 Chairman, College alumni committee

xx. 2015-2017 member, Ramadan lecture planning committee

xxi. 2015-2018 Hall master, Block C-male

xxii. 2014-2016 Coordinator, Departmental Examination officer

xxiii. 2013-2017 Departmental Coordinator, SIWES

xxiv. 2013-2016 Departmental Examination officer

xxv. 2011-date Level adviser.

c. **Resources (Human/Material) attracted to the University**

i. 2016-date Al-ansaar ventures-photocopying, repair and printing

ii. 2018 Acquisition of NAFDAC approval for FUO-NASFAT global water

iii. 2019 reviving of block industry for FUO-venture

d. **Local/Community Service (e.g. Religious/Social or Political)**

i. 2000-2001 Secretary, MSSN, Dawah committee, FUTA

ii. 2000-2001 Coordinator, INSU, FUTA branch

iii. 2009-2011 Secretary, MSSN, Akure central branch

iv. 2001-2002 Auditor, MCAN, Kogi state branch

v. 2001-2002 Coordinator, MCAN, Ajaokuta branch

vi. 2001-2011 manager, Al-ansarventures, FUTA

vii. 2018-date member, Ilobu descendant union (IDU) education committee

e. **National/International Assignments (including external examiner ship, NUC Accreditation, Assessment for academic posts, Review of academic works for journals and academic publishers etc)**

i. 2018 Examiner, JUPEB conference marking exercise at UNILAG, Lagos State

ii. Reviewer, FUJNAS, Official journal of CONAS, FUO

1. **Thesis/Dissertation**

i.Ph.D. Organic Chemistry, **2016,** “Chemical Modification, Industrial Applications and Bioactivity Study of Four Underutilized Plant Seeds Oil’’ Federal University of Technology, Akure. Ondo State. Nigeria

ii.M. Tech Industrial Chemistry, **2010,** “Synthesis, Characterization and Bioactivity Study of Some Alkylated Compounds’’ Federal University of Technology, Akure. Ondo State. Nigeria

iii.B. Sc Industrial Chemistry, **2001**, “Suitability of Ala river in Akure for Irrigation’’ Federal University of Technology, Akure. Ondo State. Nigeria.

iv.OND Science Laboratory Technology, **1995**, “Construction of A Low Voltage Stabilized Power Supply’’ Osun State Polytechnic, Iree, Osun State

1. **Listing of Academic Publications**

a. **Books, Monograph or Patent**

Nil

b. **Chapter(s) in Book(s**)

i. **ALABI, A. Kazeem,** ABDULSALAMI, O. Ibrahim, ADEOYE D. Mariam, ADERINTO, M.

Shukurat, ADIGUN, A. Rasheed (2020) Synthesis, Characterization and Computational studies

of 1, 3-Bis [(*E*)-furan-2-yl) Methylene] Urea and 1, 3-Bis [(*E*)-furan-2-yl) Methylene]

Thiourea. ***Physical Science Review***

ii. **ALABI, A. Kazeem**, ADIGUN A. Rasheed, ABDULSALAMI, I. O. and ADEOYE, M. D.

(2021) Furfural: A versatile derivative of furan for the Synthesis of various useful Chemicals,

***IntechOpen***

c. **Journal Articles**

iii. **ALABI**  **A. Kazeem**, Ibrahim J. Musa, Akin-Bashiru, F. Basirat Biosynthesis of nanoparticles, antimicrobial, antioxidant, and theoretical Studies of *Pycnanthus angolensis* sap *Journal of nanostructures in Chemistry*-**Under review**

iv. **ALABI**  **A. Kazeem**, Abdulsalami I. O., Ajibola K. O., Sadiku N. A., Adeoye M. D., Lawal A. T. and Adigun R. A, Synthesis, Characterization and Wood-Protective Potential of Wax-based Carboxylates, Urea and Thiourea Complexes *Scientific reports*-**under review**

v. JABAR, M. Jamiu. **ALABI** **A. Kazeem** and LAWAL, K. Abdul Fatai (2020) Synthesis, characterization and application of novel 1, 3‑bis[(furan‑2‑l) methylene]thiourea functional dye on wool and cotton fabrics. *SN Applied Sciences*

vi. ADEOYE D. Mariam, Abdulazeez Tunbosun, Abibat Opeyemi Jimoh, **ALABI, A. Kazeem** (2020) Fasinating Physical-Chemical properties and fiber morphology of selected waste plat leaves as potential pulp and paper making agents. *Biomass conversion and biorefinery*

vii. JAMIU M. Jabar,  YISAU A. Odusote,  **KAZEEM A. Alabi,**  IBRAHIM B. Ahmed (2020) Kinetics and mechanisms of congo‑red dye removal from aqueous solution using activated Moringa oleifera seed coat as adsorbent. *Applied Water Science* 10:136 https://doi.org/10.1007/s13201-020-01221-3

viii. ADEOYE D. Mariam, **ALABI, A. Kazeem** and ABDULSALAMI, O. Ibrahim (2019) Effect of Solvent polarities on the molecular properties of 2-(2-nitrovinyl) furan. *Journal of Physical and Theoretical Chemistry of Islamic Azad University of Iran*, 15 (3, 4) 127-140: Fall 2018 and Winter 2019

ix. ADEOYE, D. Mariam, ABDULSALAMI, O. Ibrahim, OYELEKE, O. Gbenga and **ALABI, A. Kazeem** (2019) Theoretical Studies of Solvent Effects on the Electronic Properties of 1, 3-Bis [(Furan-2yl) Methylene] Urea and Thiourea. *Journal of Physical and Theoretical Chemistry of Islamic Azad University of Iran*, 15 (3, 4) 115-125: Fall 2018 and Winter 2019

x. **ALABI, A. Kazeem**, YUSUF, O. Tawa, JABAR, M. Jamiu, and OWOKOTOMO, A. Ignatus (2019) Chemical Composition and Bioactivity Studies of the Essential oils from *Thevetia peruviana* and *Hura crepitans*. FUTA *Journal of Research in Sciences.* 15 no. 1: 75-84.

xi. OSINEYE O. Suaib. BAKARE-ODUNOLA, T. Moji., **ALABI, A. Kazeem.,** SALAU, K. Amadu., OWOLABI, A. Akeem., BALE T. Fatia., BALOGUN, A. Basheer (2019) Biochemical Changes in Selected Tissues of Normal Albino Rats following Treatment with 1,3-Bis [(Furan-2-yl) Mthtylene] Urea-. *Comparative clinical Pathology*. (**In press**) 10.1007/s00580-019-02978-z

xii. ADEOYE, D. Mariam, ABDULSALAMI, O. Ibrahim, **ALABI, A. Kazeem,** ADEYEMO, J. Azeezat. and TIJANI, O. Kazeem **(2019)**, “Silver nanoparticle (AgNP) of Tridax procumbens Leaf Extract and its Thermodynamic Ensembles in Corrrosion Inhibitory Studies”. *Journal of ChemResearch*. 1 no. 1, 108-120**.**

xiii. **ALABI, A. Kazeem,** ABDULSALAMI, O. Ibrahim, ADEOYE, D. Mariam, MUSA, J. Ibrahim and AKIN-BASHIRU, F. Bashirah **(2019)**, “GC-MS Characterization and Computational analyses of the identified compounds in *Pycnanthus angolensis* root extracts”. *Journal of ChemResearch*. 1 no. 1, 21-32**.**

xiv. **ALABI, A. Kazeem (2019)**, **“**Characterization and Termite Repellence activity of Copper Carboxylates from *Mangifera indica* L.and *Sesamum indica* L. Seed Oils”. *Journal of Chemical Society of Nigeria****.*** 44 no. 1, 145-152.

xv. ABDULSALAMI, O. Ibrahim, ADEOYE, D. Mariam, **ALABI, A. Kazeem,**  ABDULSALAMI, A. Bashirah and ABOLURIN, O. Nushirah **(2018)** Comparative Analysis of Theoretical and Empirical Data of Synthetic Cannabinoids. *Fountain University Journal of Natural and Applied Sciences.* 7 no. 1, 29-41.

xvi.     **ALABI, A. Kazeem,**LAJIDE, Labunmin, OWOLABI, B. Joseph **(2018)**, “Biological activities of oleic acid and its primary amide: Experimental and Computational studies”. *Journal of Chemical Society of Nigeria.* 43 no. 2, 9-18.

xvii. **ALABI, A. Kazeem,** AYILARA, H. Tijjani, LAWAL, Muhammad, ADIGUN, A. Rasheed, and TIJANI, O. Kazeem **(2018)**, “Effects of Chemical Purification on the Fatty acid Composition of plant seed oils: *Carica papaya* and *Citrus sinensis”. Nigerian Journal of Basic and Applied Sciences.*26 no. 2, 23-29. DOI: http://dx.doi.org/10.4314/njbas.v26i2.4

xviii. **ALABI, A. Kazeem**,OYEKU, T. Toluwalase **(2017)**, “The Chemical constituents extractable from Teak tree (*Tectona grandis Linn*) obtained from Fountain University, Osogbo”. *Nigerian Journal of Basic and Applied Sciences.*25 no. 1, 73‑80.[www.ajol.infoindex.php/njbas/index](http://www.ajol.infoindex.php/njbas/index). DOI: http://dx.doi.org/10.4314/njbas.v25i1.10

xix. **ALABI, A. Kazeem**, and JABAR, M. Jamiu **(2017)**, “Sodium *tert* Butoxide a Suitable Catalyst for the Synthesis of 2-(2-Nitrovinyl) furan”. *FUNAI Journal of Science and Technology.* 3 no. 1, 85-90.[www.fjst.org](http://www.fjst.org).

xx.AJIBOYE, O. Taofeek,  **ALABI A. Kazeem**, ARIYO, A. Fuhad, ADELEYE, O. Abdulwasiu, OJEWUYI, B. Oluwayemisi, BALOGUN, A. Abdulraheem, SUNMONU, O. Taofik **(2015)**, “2-(2-Nitrovinyl) furan Promotes Protein, Lipid, and DNA oxidation in the liver and kidney of male Rats”. *Journal of Biochemistry Molecular Toxicology*.  29 no. 3, 114‑122. DOI 10.1002/jbt.21674

xxi. OWOLABI, B. Joseph, **ALABI, A.** **Kazeem, a**nd LAJIDE, Labunmi (2015) Synthesis and characterization of copper metal soaps from *Thevetia peruviana* and *Hura crepitans* seed oils, ***Scientific research and Essays***, 10(23) 649-654.

xxii. **ALABI, A. Kazeem**, LAJIDE, Labunmin, OWOLABI, B. Joseph **(2013)**, “Analysis of Fatty Acid Composition of *Thevetia peruviana* and *Hura crepitans* Seed oils using GC-FID”*Fountain University Journal of Natural and Applied Sciences.* 2 no. 2, 32–37. [www.fountainjournals.com](http://www.fountainjournals.com)

xxiii. OWOLABI, U. Rasheed, **ALABI, A. Kazeem**, OKE, O. Busayo **(2013)** “Reclamation Of spent Engine Lubricating Oil”.  *Fountain University Journal of Natural and Applied Sciences.* 2 no. 1, 11-16 [www.fountainjournals.com](http://www.fountainjournals.com)

xxiv.YUSUF, Lamidi, YUSUF, D. A. Daudu, **ALABI A. Kazeem** **(2012)**, “Phytochemical Screening and Pesticidal Effects of Mistletoes (*Viscum album*) Growing On Cocoa Tree in Nigeria”. Futa *Journal of Research in Science and Management*. 8, no. 1, 42-47.”. Futa *Journal of Research in Science and Management*. 8, no. 1, 42-47.

xxv.OWOLABI, B. Joseph, **ALABI, A. Kazeem** (2012), “Synthesis, Characterization and Bioactivities Studies of Selected Alkylated Compounds”. Futa *Journal of Research in Science and Management.* 8, no. 1, 48-56.

xxvi. **ALABI**, **A. Kazeem** and OWOLABI, B. Joseph (2011), “Synthesis and Antimicrobial Property Of 2-(2-Nitrovinyl) Furan”. *International Journal of pure and applied Microbiology*. 6(1) 131-134. [www.microbiologyjournal.org](http://www.microbiologyjournal.org)

**d. Encyclopaedia entries**

Nil

**e. Refereed Conference Proceedings**

i. **ALABI, A. Kazeem,** ADEOYE, D. Mariam, AREWA, A. Nusirat, SHITTA O. AbdulRazak (2017), “Evaluation of corrosion inhibition Potential of Ca and Zn carboxylates from *Jatropha* seed oil on aluminum in 1 M H2SO4”. 225-232, Proceeding of 5th Annual Conference of School of Science (SOS), Prof. V. Oyetayo, Dr. A. T. Adediji, Dr. I. J. Kade, Dr. S. J. Ojo, Dr. A. O. Kolawole, Dr. A. O. Olalemi and Mr. C. O. Ogidi. Federal University of Technology, Akure. Ondo State: Publisher: Graceland.

ii. **ALABI, A. Kazeem** (2014), “Chemical characterization of soluble soap prepared from milk bush (*thevetia peruviana*) seed oil”. 558-563, Proceeding of 37th Annual International Conference, Workshop and Exhibition of the Chemical Society of Nigeria (CSN) from 7th – 12th September 2014, Prof. Essien D. Udosen, Uyo, Akwa Ibom State, Nigeria, Publisher: Andikonkan’s Touch.

iii. **ALABI, A. Kazeem,** LAJIDE, Labunmi and OWOLABI, B. Joseph (2013), “Analysis of Fatty Acids Extracted from *Thevetia peruviana* and *Rothmannia longiflora* seed using FT-IR and GC-FID spectrometer”: 51-54, Proceeding of 36th Annual International Conference Workshop and Exhibition of Chemical Society of Nigeria: vol.2. Between 16th and 20th September 2013, Dr. Abdullahi Mann, at Justice Legbo Kutigi International Conference Centre, Minna, Niger State, Nigeria.. Publisher: Abbey + Plus Prints

iv. JABAR, M. Jamiu, MOJIBOLA, A. Akeem, **ALABI, A. Kazeem** (2011), “Effect of rate of dyeing on the fastness properties of indigo dyed cotton fabrics”. 26-29, Proceeding ofthe 4th Annual Conference of The Association of Textile Technologists of Nigeria between 10th and 13th October 2011. Dr. A. Giwa, Yaba College of Technology, Yaba, Lagos. Publisher: Association of Textile Technologists of Nigeria (ATTN).

**f. Review Articles/Book Reviews**

i. Lawal, A. T., Bolarinwa, S. Hakeem, Adeoye, D. Mariam, Abdulsalami, O. Ibrahim, Animasahun, O. Lukman and **ALABI, A Kazeem** Progress in Carbon Nanotube-Based Electrochemical Biosensors: A Review *Fountain University Journal of Natural and Applied Sciences.* 7 no. 1, 29-41

**g.** **Speciale.g. Grant/fellowship, Web Presence, Award Winning Play/film, Landmark Judgement (Case)**

i.Certificate of invitation by IntechOpen Limited

1. **Research Interest:**

Synthetic Chemistry, Natural Product and Computational Chemistry.

1. **Research in progress**

**i. List as many research projects as are in progress but provide details of only 3 stating, among others:**

i. Experimental and Theoretical Characterization of Synthesized Chalcones and their termiticidal applications

ii. Instrumental analyses and antioxidant evaluation of mature and immature leaves extracts of *Pycnanthus angolensis*.

iii. Characterization of Urea and Thiourea-Carboxylate Copper complexes and their applications as wood protective agents.

iv. Extraction, Fatty acid and Phospholipid evaluations of two varieties of castor seed oil in southern part of Nigeria.

v. Synthesis, Characterization and Density Function Theory studies of Ricinoleic acid, (*R,Z*)-12- chlorooctadec-9-enoyl chloride, and (*R,Z*)-12-aminooctadec-9-enamide as potential antimicrobials

vi. Synthesis, characterization and application of (*E*)-3-(Furan-2-yl)-1-phenylprop-2-ene-1-one as a potential wood preservative.

vii. Synthesis, Characterization, and DFT evaluation of (Z)-1-phenyl-3-(0-tolyl)prop-2-en-1-one

viii. Biosynthesis of nanoparticles, antimicrobial, antioxidant, and theoretical Studies of *Pycnanthus angolensis* sap

**Project Details:**

i.Experimental and Theoretical Characterization of Synthesized Chalcones and their termiticidal applications

a. **Introduction:** Chalcone is a generic term used in describing compounds with the 1,3-diphenylpro-2-en-1-one frame work. They are natural compounds that are largely found in plants, fruits and vegetables (Satyanarayana *et al.,* 2004). Most of aromatic rings of natural chalcones are found as hydroxylated. Chalcones, dihydrochalcones and aurones are composed of pigments whose colour changes from yellow to orange in some plant species.

b. **Aim/Objectivs:** The aim was to evaluate the termicidal effect of Chalcones while the objectives include to Synthesis Chalcones, to Characterize, to compare the theoretical and experimental data and to evaluate their termiticidal effects.

c. **Methodology:** Chalcones will be synthesized following the established methods and Spatan-14 software would be used to derive the theoretical values.

d. **Expected Result:** They may also possess termiticidal effects in addition other established uses already recorded in the literatures.

e. **Contribution to knowledge/society:** Chalcones have diverse uses in medicine and agrochemical

ii.*Pycnanthus angolensis* sap: Biosynthesis of Silver and Sodium nanoparticles and their antioxidant activities.

a. **Introduction:** The Traditional healers add sodium chloride salt (common salt) to *Pycnanthus angolensis* sap before using as cough-inhibitory drug without scientific proof(s). Therefore this research work has chosen to identify the chemical constituents in the sap and as well prepare silver (**AgNP**) and sodium (**NaNP**) nanoparticles for comparison.

b. **Aim/Objectivs:** The aim is to synthesize Sodium and Silver Nano particles while the objectives include to Synthesize Nano particles, to characterize them and to determine the antioxidant properties

c. **Methodology:** The nano-particles were synthesized following standard methods.

d. **Expected result:** It is expected that sodium and silver will impart different activities on the crude extract.

e. **Contribution to knowledge/society:** The experiment will inform us more why sodium chloride is added by traditional healers and if it should be stopped or continue.

iii.Determination of chemical constituents of root extracts and sap of *Pycnanthus angolensis* using U-vis and GC-MS

a. **Introduction:** By definition, ‘traditional ’use of herbal medicines implies substantial historical use, and this is certainly true for many products that are available as ‘traditional herbal medicines’ (Warren, 2002). In many developing countries, a large proportion of the population relies on traditional practitioners and their armamentarium of medicinal plants in order to meet health care needs. Although modern medicine may exist side-by-side with such traditional practice, herbal medicines have often maintained their popularity for historical and cultural reasons (Martinez, *et al.,* 1996).

b. **Aim/Objectives:** The sap of *Pycnanthus angolensis* is used to cure cough in folk-medicine, this work is trying to determine the active constituents present that is responsible for the action while the objective include to analyze the sap, to determine the potency of the major constituents theoretically

c. **Methodology:** The sap would be tapped from the tree, analyzed using Gas Chromatography-Mass Spectrometer. The major constituents would be confirmed using computational analysis.

d. **Expected result:** This work is likely to inform us of what constituent is responsible for the cough inhibition.

e. **Contribution to knowledge/society:** At the end of the research, we would be able to advise people if they should continue or stop using it as cough medicine.

1. **Research Collaboration Experience (Date/Institution/Project)**

2016/2017 – Federal University of Technology, Akure- Comparative Studies oF *Thevetia peruviana* and *Hura crepitans* leaves essential oils.

2019 - Federal University of Technology, Akure- Colour and fastness properties of soda ash mordanted 1, 3-bis [(furan-2-yl) methylene] thiourea dyed wool and cotton fabrics

1. **Conferences/Workshops attended and papers presented with dates**

i. 60th Obafemi Awolowo University, Ile-Ife. Faculty of Science, International conference (Virtual) THEME: Building partnerships for sustainable development through scientific interventions. 8th and 9th, June 2021.

**Papers read:**

* Comparative studies of Photophysical studies and the thermodynamic Functions of Metronidazole and its derivatives.
* Optimum Conditions of the Preservatives Potentials of Cymbopogon Citratus and Citrus Limon fruits Peels Oils on Orange Juice

ii.EKSU-HUMBOLDT KOLLEG International Conference held at SSANU Cooperative Hall, Beside UBA Bank, Ekiti State University, Ado-Ekiti. Theme: The Social, Economic, Political and Scientific Implications of the drive towards Green and Sustainable Development through Utilization of Renewable Resources. April 7th and 11th 2019.

**Paper read:**

* Instrumental Analysis and Antioxidant Evaluation of Mature and Immature Leaves Extracts of *Pycnanthus angolensis*

iii.3-Day Workshop and Conference of Lautech Nano 2018 held at the Hall and Laboratory of Industrial Microbiology and Nanobiotechnology of Lautech. Ogbomoso. Oyo State. Theme: Nanotechnology for Sustainable Development: Prospect for Africa, October 23th to 25th 2018.

**Papers read:**

* *Pycnanthus angolensis* Sap: Biosynthesis of Silver and Sodium nanoparticle
* Silver Nanoparticles (AgNPs) of *Tridax procumbens*and *Phyllantus amarus* leaf extracts”: corrosion inhibition and antimicrobial potential

iv. 41st Annual International Conference, Workshop and Exhibition held at Conference Centre, University of Ibadan, Ibadan, Nigeria. Theme: Chemical Sciences in an Emerging Economy: Issues, Prospects and Opportunities, September, 16th to 21st 2018,

**Papers read:**

* Experimental and Computational Studies Of Bis-Imine Derived From Furfural

v. 6th Annual Conference of School of Science (SOS): held at Federal University of Technology,

Akure. Pp 62. Theme: Nano Science and Technology Research: A veritable tool for National

Development, June, 25th to 28th 2018.

**Papers read:**

* Biosorption Kinetic Studies of Congo-Red Dye on Ground *Moringa oleifera* seed and seed coat.
* Composition and Bioactivity studies of the Essential oils from *Thevetia peruviana* and *Hura crepitans.*

vi. 51st Annual Conference of Science Association of Nigeria (SAN) held at Covenant

University, Canaanland, Ota Ogun State. Page 60 of 113. Theme: Science: The Key to

renewable Energy, Green Environment, Empowerment and Sustainable Development,

July, 9th -13th 2017

**Paper Read:**

* Kinetic and Equilibrium Studies of the Heavy Metal Remediation Potential of 1,3-Bis[(Furan-2-yl) methylene] Urea

vii. 5th Annual Conference of School of Science (SOS): Held at T. I. Auditorium between 27th and 30th 2017. Federal University of Technology, Akure. Ondo State. Theme: Scientific Research: Key to promoting Green Revolution in Nigeria, 269-279.

**Papers read:**

* Biological activities of oleic acid and its primary amide: Experimental and Computational studies
* Evaluation of corrosion inhibition Potential of Ca and Zn carboxylates from *Jatropha* seed oil on aluminum in 1 M H2SO4.

viii. 3rd Annual Conference of School of Science (SOS): held at Federal University of Technology, Akure. 8. Theme: Academia-Industry Relationship: Key to Technological Development in Nigeria. July, 30th – August, 3rd 2015.

**Paper read:**

* Synthesis, Characterization and Bioactivity of Benzamide and Its Copper and Nickel Complexes against *Aspergillus niger* and *Rizhopus stolonifera*.

ix. 37th Annual International Conference, Workshop and Exhibition of the Chemical Society of Nigeria (CSN) held at Uyo, Akwa Ibom State, Nigeria. Theme: A century of 1914-2014: Contributions, Prospects and Challlenges of Chemistry September, 7th – 12th 2014.

**Paper read:**

* Chemical characterization of soluble soap prepared from milk bush (*Thevetia peruviana*) seed oil.

x. 36th Annual International Conference Workshop and Exhibition of Chemical Society of Nigeria: (CSN) at Justice Legbo Kutigi International Conference Centre, Minna, Niger State, Nigeria. Theme: Chemistry and Global Sustainable Economic Development: Challenges and Opportunities for the Developing Nations. September, 16th to 20th 2013.

**Paper read:**

* Analysis of Fatty Acids Extracted from *Thevetia peruviana* and *Rothmannia longiflora* seed using FT-IR and GC-FID spectrometer.

xi. Unilag Golden Jubilee Research Conference and Fair: Sciences (Engineering, Environmental Sciences and Science). Held at University of Lagos Akoka-Yaba,

Lagos.Nigeria. Theme: November, 6th-8th, 2012.

**Paper read:**

* Reclamation of spent Engine Lubricating Oil

xii. 13th International Congress of Toxicology, held at Seoul, South Korea. Theme:

Translational **Toxicology**: From Basic Science to Clinical and Environmental June 30-July 4, 2013

**Paper read:**

* 2-(2-Nitrovinyl) furan induces redox imbalance of male rats’ liver and kidney.

xiii.1st Annual Conference of The School of Sciences, Federal University of Technology, Akure.

Theme: July 17th -21st 2012

**Paper read:**

* Effect of Temperature on Quantity and Quality of Extracted *Thevetia Peruviana* Oil from Its Oil Bearing Seeds.

xiv. 4th Annual Conference of The Association of Textile Technologists of Nigeria. Held at Yaba

College of Technology, Yaba, Lagos. Theme: Revitalization of Textile Industry in Nigeria: Current and Prospective Innovations In Textile Science, Technology And Design October, 10th-13th 2011

**Paper Read:**

* Effect of rate of dyeing on the fastness properties of indigo dyed cotton fabrics.

xv 24th Annual Conference of Biotechnology Society of Nigeria (BSN): held at Joseph Ayo

Babalola University, Ikeji-Arakeji. Osun State. Nigeria. Theme: Biotechnology: A ‘lever’

to Sustainable development. August 2011.

**Paper Read:**

* Synthesis, Characterization and Bioactivities Studies of Selected Alkylated Compounds.

xvi.   42nd Annual Chemical Society of Nigeria (CSN)/ ACRICE-4 International

Conference which will be held at the Academy Inn, Agidingbi, Ikeja, Lagos. Theme:

Chemistry Education and Sustainable Development. September 8th – 13th, 2019.

Papers to be Read:

* Synthesis, Characterization and wood-protective potential of Urea and Thiourea Complexes derived from Tallow, Bee-wax and Shear butter.
* Colour and fastness properties of soda ash mordanted 1, 3-bis [(furan-2-yl) methylene] thiourea dyed wool and cotton fabrics

1. Extra Curricular activities

i. Petty farming

ii. Riding

iii. Indoor exercise

iv. Buying and selling

1. **Referees**

i. Professor L. Lajide, Department of Chemistry, School of Sciences, Federal University of Technology, Akure, Ondo State, Nigeria.+2348034705605. [Labunmilajide2000@yahoo.com](mailto:Labunmilajide2000@yahoo.com). My Ph.D supervisor/mentor.

ii. Professor A. G. Adeagbo-Akeyo, Department of Mathematics, Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria. +2348033816149. My uncle and mentor.

iii. Professor A. T. Lawal, Department of Chemical Sciences, Fountain University, Osogbo. Nigeria. +2348131826098. [Abdul.lawal@yahoo.com](mailto:Abdul.lawal@yahoo.com). My dean and mentor.

1. Signature/Date