# CURRICULUM VITAE

## A. GENERAL INFORMATION

| | | |
|---|---|---|
| 1. | Name: | AWOJIDE Shola Hezekiah |
| 2. | Date and Place of Birth: | 21st March, 1979; Jos |
| 3. | Gender: | Male |
| 4. | Nationality: | Nigerian |
| 5. | State of Origin: | Osun State |
| 6. | Local Government Area: | Ife-East |
| 7. | Marital Status: | Married |
| 8. | Names and Ages of Children: | i. AWOJIDE Hephziba A. (13 years, 9 months)<br>ii. AWOJIDE Joseph O. (11 years)<br>iii. AWOJIDE Phebe A. (8 years, 11 months) |
| 9. | Name & Relationship of Next of kin/ Phone: | AWOJIDE Adewumi Grace (Wife)<br>+234 (0) 81-67194824) |
| 10. | Permanent Contact Address: | Olorunlogbon community, Konkobilo Area, Okinni, Osogbo, Osun State, Nigeria |
| 11. | E-mail Address: | shola.awojide@uniosun.edu.ng |
| 12. | Registration with Research Gates (Yes/No): | Yes |
| 13. | If Yes, Provide the link: | https://www.researchgate.net/profile/Shola-Awojide |
| 14. | If No, Why: | Not Applicable |
| 15. | Registration with Google Scholar (Yes/No): | Yes |
| 16. | If Yes, Provide the link: | Shola Awojide- Google Scholar |
| 17. | If No, Why: | Not Applicable |
| 18. | Cell Phone Number(s): | +234 (0) 8161753730, +234 (0) 80531068 |
| 19. | College/Faculty: | SET/Basic and Applied Sciences |
| 20. | Department: | Pure and Applied Chemistry |
| 21. | Position on First Appointment with the University: | Assistant Lecturer; 4th January, 2010 |
| 22. | Present Position & Salary (Grade Level and Step): | Associate Professor ; CONUASS 6/3 |
| 23. | Date of Present Position (Promotion /Regrading): | 1st October, 2023 |
| 24. | Is your appointment confirmed? | Yes |
| 25. | If No, Why Not?: | Not Applicable |
| 26. | Date of Confirmation of Appointment: | 20th October, 2017 |

## B. EDUCATIONAL BACKGROUND

### 1. Educational Institutions Attended with Dates

| | | |
|---|---|---|
| i. | Federal University of Technology, Akure, Nigeria | 2010–2017 |
| ii. | Federal University of Technology, Akure, Nigeria | 2005–2008 |
| iii | University of Jos, Plateau State, Nigeria | 1995–2001 |

### 2. Academic and Professional Qualifications with Dates/Issuing Authority and Class of Degree/Grade

| | | | | | |
|---|---|---|---|---|---|
| i | Ph.D. | Industrial Chemistry | Federal University of Technology, Akure, Nigeria | Ph.D | (2017) |
| ii | M.Tech | Industrial Chemistry | Federal University of Technology, Akure, Nigeria | (Ph.D grade) | (2010) |
| iii | B.Sc | Applied Chemistry | University of Jos, Jos, Nigeria | Second Class (Lower) Division | (2001) |

### 3. Other Relevant Qualifications

Nil

### 4. Honours, Awards and Distinctions

| | | |
|---|---|---|
| (i) | Meritorious Leadership Award (Rotaract Club of Osogbo) | (2019) |
| (ii) | Outstanding Lecturer of the year (South West Education Award) | (2018) |
| (iii) | The Advocate of the Students of the year (FABASSA) | (2018) |
| (iv) | Most supportive Lecturer (FABASSA) | (2017) |
| (v) | Best Lecturer ANBC honorary award of excellence | (2017) |
| (vi) | Best Lecturer (Students Chemical Society of Nigeria) | (2016) |
| (vii) | Meritorius Award of Excellence (Matadors Leadership Institute) | (2015) |

### 5. Research Fellowship with date

(i) Tertiary Education Trust Fund Ph.D Sponsorship
2013

(ii) Co- Winner Tertiary Education Trust Fund research grant
2016

## C. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM

(i) **Teacher,** National Youths Service Corps, New day Secondary School,
Uzebba, Edo State, Nigeria
(2003–2004)

(ii) **Teacher,** New Lagos College, Onipanu, Lagos, Nigeria
(2004-2010)

## D. WORK EXPERIENCE IN OTHER UNIVERSITIES

(i) **Adjunct Lecturer,** Adeleke University Ede, Nigeria (2019/2020 academic sessions)

(ii) **Adjunct Lecturer,** Ekiti State University, Nigeria (2020/2021 academic session)

## E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY

(i) **Associate Professor,** Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (since 2023)

(ii) **Senoir Lecturer,** Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (since 2020)

(iii) **Lecturer I,** Department of Pure and Applied Chemistry, Faculty of Basic and Applied Sciences, College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (2017–2020).

(iv) **Lecturer II,** Department of Chemical Sciences, College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (2013–2017).

(v) **Assistant Lecturer,** Department of Geological and Chemical Sciences, College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (2010–2013).

## F. CO-CURRICULAR PROFESSIONAL EXPERIENCE

(i) **Reviewer,** UNIOSUN Journal of Science, Osun State University, Osogbo

(ii) **Reviewer,** Chemistry Africa (A Journal of Tunisian Chemical Society, Springer)

(iii) **Reviewer,** UNIOSUN Journal of Engineering and Environmental Sciences

(iv) **Reviewer,** Fountain Journal of Natural and Applied Sciences

## G. MEMBERSHIP OF PROFESSIONAL BODIES

(i) **Member,** Chemical Society of Nigeria

## H. SERVICE:

### 1. University

#### (a) University

(i) **Deputy Director,** Was the deputy director for the Directorate of Academic Planning (July 2024 Till Date)

(ii) **Postgraduate College Representative,** External examinations of two M.Sc. theses, Department of Biochemistry (January 14, 2021

(iii) **Deputy Director,** Was the deputy director for the Directorate of Intercampus and Public Affairs (August 2019 –July 2021

(iv) **Deputy Director,** Was the deputy director for the Directorate of Intercampus and Public Affairs

(v) **Internal Examiner,** Was internal examiner for several Postgraduate examination

(vi) **Member Ad-hoc,** Conference of Pro-Chancellor of State University in Nigeria

**(b) College**

(i) **Chairman, College Time table Committee,** College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (2017–2019)

(ii) **Chairman, College Examinations Committee,** College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (2017–2019)

(iii) **Member, Space Allocation,** College of Science, Engineering and Technology, Osun State University, Osogbo, Nigeria (2019– 2023)

**(c) Faculty**

(i) **Chairman, Faculty Examinations Committee,** Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria (2017–2019)

(ii) **Chairman, Faculty Time table Committee,** Faculty of Basic and Applied Sciences, Osun State University, Osogbo, Nigeria (2017–2019)

(iii) **Member,** Faculty Academic Board for Postgraduate Studies (since 2019)

(iv) **Member,** Faculty of Basic & Applied Sciences Board of Examiners (since 2016)

**(d) Department**

(i) **Ag**, **Head of Department**, Department of Pure & Applied Chemistry (August 21- July 2023)

(ii) **Member,** Departmental Academic Board for Postgraduate Studies (since 2019)

(iii) **Examinations Officer**, Department of Pure & Applied Chemistry (2012-2018)

(iv) **Member,** Quality Control/Assurance Committee (since 2021)

(v) **SIWES Coordinator,** Department of Pure & Applied Chemistry (2012–2017)

**2. Community**

(i) **Member,** Olorunlogbon Community, Okinni (since 2012)

(ii) **Member,** Interview Panel for Post-UTME Screening (2011–2012)

**3. National**

(i) **Proctor,** Joint Admissions and Matriculation Board, Nigeria (JAMB) for the Unified Tertiary Matriculation Examination (June, 2021; March, 2020; April, 2019 & March, 2018)

## I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION

### 1. Harmattan Semester 2019/2020 Academic Session

| | | | |
|---|---|---|---|
| i | CHM 101 | General Chemistry I | 3 units |
| ii | CHM 104 | General Chemistry III | 2 units |
| iii | CHM 291 | Practical Chemistry | 1 units |
| iv | CHM 202 | Organic chemistry 1 | 2 unit |
| v | CHM 303 | Organic chemistry II | 2 units |
| vi | CHM 391 | Practical Chemistry III | 1 unit |
| vii | ICH 461 | Research Project I | 2 units |
| viii | CHM 102 | General Chemistry II | 3 units |
| ix | ICH 303 | Heavy Inorganic Materials | 2 units |
| xi | CHM 311 | Colour and Textile Chemistry | 2 units |
| xii | ICH401 | Fertilizer and Agrochemicals | 3 units |
| xiii | ICH 407 | Drug Design | 2 units |
| xiv | CHM 711 | Natural Product | 2 units |
| xv | CHM 739 | Polymer Chemistry | 2 units |

## J. GRADUATE STUDIES SUPERVISION

### 1. M.Sc. Thesis Supervision

i. AKINLADE Boluwatife Akinade (BASP/19/20/H0089)
Comparative study on the medicinal snd chemical components of fractions and crude essential oil of *Monodora myristica* **(completed).**
M.Sc Chemistry (Industrial Chemistry option)

ii. ADEGBOYE Adeola Adepeju (BASP/19/20/H0113)
Comparative studies on the synergistic and antagonistic activities of fractions and crude essential oil of *Syzygium aromaticum* **(completed)**
M.Sc Chemistry (Industrial Chemistry option)

iii. ADEGBITE Aishat Olasunnbo (BASP/19/20/H0111)
Investigation of phytochemical composition and medicinal properties of fractions and crude essential oil of *Pinus sylvestris* **(Completed)**
M.Sc Chemistry (Industrial Chemistry option)

iv. AJAYI Opeyemi Paulinah (2020/33013
Comparative study of the medicinal activities of polar and non-polar extracts of *Daniellia oliveri* **(Completed).**

M.Sc Chemistry (Industrial Chemistry option)

v. OLADIPUPO-OLALEKAN Omolara
Investigation on the medicinal activities of polyphenols from fermented and unfermented seeds of Annona squamosal **(Completed)**
M.Sc Chemistry (Industrial Chemistry option)

vi. ADEYEMO Aminat Adebola
Medinal activities of the blend of Three indigenous essential oils
M.Sc Chemistry (Industrial Chemistry option) **((Completed).**

## K. PUBLICATIONS

### 1. Thesis/Dissertations

(i) **Awojide S. H.** (2001). Investigation of physicochemical parameter and heavy metals in irrigation water in Jos (*B.Sc Project*)

(ii) **Awojide S. H.** (2010). Determination of chemical composition and insecticide activities of essential oil from clove bud (*M.Sc Dissertation*)

(iii) **Awojide S. H.** (2016). Biocidal activities of essential oil from *Piper umbellatum*, *Piper nigrium*, *Pinus sylvestris* amd *Monodora myristica* (*Ph.D Thesis*)

### 2. Articles in Learned Journals

1. **Shola Hezekiah Awojide**, Abayomi Gideon Adeyemo, Luqmon Adeyemi Azeez, Emmanuel Oluwafemi Adeniyi, Zainab Omotolani Hammed, Rahmat Tayo Toyin, Ojo Temitope Sikiru and Boluwatife Akinbade Akinlade (2026). Green synthesis, characterization, determination of antioxidant, antidiabetic, and anti-inflammatory activities of silver nanoparticles from *Syzygium aromaticum* essential oil. Discover Chemistry 3:543 https://doi.org/10.1007/s44371-026-00976-z

2. Yemisi Elizabeth Asibor, Abel Kolawole Oyebamiji, Dayo Felix Latona, Banjo Semire, Adebanjo Jacob Anifowose, **Shola Hezekiah Awojide**, Abayomi Gideon Adeyemo, Nathaniel Oladoye Olatunji, Tolulope Emmanuel Odedunmoye (2026). Leveraging on Computational Strategies to Alleviate Vaso-Occlusive Crises in Sickle Cell Disease. Journal of Pharmaceutical Innovation. 21:577 https://doi.org/10.1007/s12247-026-10794-6

3. Rukayat O. Opatokun-Saliu1, Luqman A. Azeez, Jacob A. Anifowose, **Hezekiah S. Awojide**, Hassan K. Busari, Adewinbi Saheed, Abayomi A. Oladejo and Kazeem O. Ajibola (2026). Characterization and comparative antioxidant study of calcium oxide and zinc nanoparticles mediated by Annona muricata leaves. Discover Chemistry 3:459. https://doi.org/10.1007/s44371-026-00915-y

4. **Awojide, S. H**, Adedayo O. A, Omolara O, Aminat Adebola Adeyemo, Yemisi Elizabeth Asibor, Emmanuel Oluwafemi Adeniyi, Bunmi Regina Bankole, Ezekiel Olumide Fadunmade (2026). Fermentation-Induced Modulation of

Polyphenolic Contents and Medicinal Activities in Annona squamosa Seeds. Food Chemistry International, 00:1–15 https://doi.org/10.1002/fci2.70055

5. **Shola Hezekiah Awojide**, Rahmat Tayo Toyin1, Abayomi Gideon Adeyemo1*, Ezekiel Olumide Fadunmade2, Adebanjo Jacob Anifowose1, Ayotunde Gabriel Olorunniyi1 and Adeyemi Umar-Farouq Adeyemo (2026). Sustainable nitrogen management using Indigenous essential oils for nitrification inhibition and synergistic effects. Discover Plants 3:23 https://doi.org/10.1007/s44372-026-00484-5. **Published by Springer**
6. Anifowose, A. J., Muritala, M. A., Bello, A. O., Oguntolu, A. S., Ibrahim, K. A., and **Awojide, S. H.** (2026). Quantitative profile, sources and health implications of polychlorinated biphenyls (PCBs) in the strategic Otin River water, Nigeria. Journal of Contaminant Hydrology, 277, 104826. **Published by Elsevier**
7. Anifowose, A. J., Elenwo, N. N., Ganiyu, K. F., Abdullahi, M. T., Odeyemi, A. O., and **Awojide, S. H.** (2025). Contamination Level, Sources and Risk Assessment of Leaked Petroleum n-Alkanes in the Groundwater of Okinni Area, Osogbo, Nigeria. *Chemistry Africa* 8, 2019–2033. **Published by Springer**
8. Olaniyan, O. P., Adesoye, A. A., **Awojide, S. H.,** Oyewole O. I., Afolabi-Balogun N. B., Olajide O. A., and Akinde S. B. (2025). Phytochemical profiling, antioxidant activity, and structural elucidation of bioactive compounds from anaerobically digested cow dung slurry. *Discover Chemistry,* 2, 211. **Published by Springer**
9. **Awojide, S. H.,** Adeyemo, A. G., Adeyemo, A. A., Blessing, E. T., Anifowose, A. J., Oladipo, O., Adeniyi, E. O., and Abdulazeez, U. T. (2025). Assessment of the medicinal properties and components of the blend of three indigenous essential oils (*Syzygium aromaticum, Monodora myristica,* and *Xylopia aethiopica*) from Africa. *Bulletin of National Sciences Research* 15, 1.
10. **Awojide, S. H.,** Ajayi, O. P., Adeyemo, A. G., Olabintan, O. M., Obunadike, C., Adetunji, J. B., and Anifowose, A. J. (2025). Phytochemical profiling and pharmacological activities of ethanol and n-hexane extracts of *Daniellia oliveri. Discover Chemistry* 2, 212. **Published by Springer**
11. Anifowose, A. J., Arowosaye, G. T., Akintola, E. O., Adaramodu, O. E., Otunniya, J. A., Makinde, A. D., Kolawole, T. O., and **Awojide, S. H.** (2025). Distribution dynamics and health risks of polyaromatic hydrocarbons and heavy metals in the anthropogenically impacted Omi-Asoro Stream, Nigeria. Journal of Geochemical Exploration 271, 107675. **Published by Elsevier**
12. **Awojide, S. H., Fadunmade**, E. O., Adegboye, A. A., Oyewole, K. A., Adedotun, I. S., Adeyemo, A. G., and Ayeni, J. V. (2024). A comparative study on the synergistic activities of fractions and crude essential oil of Syzygium aromaticum. Bulletin of the National Research Centre 48, 47. **Published by Springer**

13. Agbaje, W. B., Fadunmade, E. O., Azeez, L. A., **Awojide, S. H.,** Adewale, O. O., Wahab, A. A., Abiona, O. O., Akintade, O. O., and Oni, P. G. (2024). Quality parameter assessment of water, accessible for drinking and general purpose in some selected local government areas in Osun state, South-western Nigeria. Journal of Materials and Environmental Science, 15, 1, 25-41

14. Fasasi, K. A., Awodiran, O. F., Ayeni, D. J., Awoniyi, O. I., and **Awojide, S. H**. (2024). Assessment of Bee Honey in some Districts in South-Western Nigeria for Agricultural Pesticide Residues and Polycyclic Aromatic Hydrocarbons (PAHs). The Journal of Agricultural Sciences - Sri Lanka, 19, 1, 142-15.

15. Anifowose, A. J., Gbadamosi, A. K., Oguntope, T. M., Olarinde, O. S., Fasoiro, O. S., and **Awojide, S. H.** (2024). First forensic quantification, source-identification and health risk estimation of volatile organic carbons in the anthropogenically impacted Omi-Asoro Stream in Ilesa, Nigeria. Cleaner Water 1, 100002. **Published by Elsevier**

16. **Awojide S. H**., Adegbite A. O., Oyewole A. K., Adeyemo G. A., Fadunmade E. O and Anifowose A. J. (2023). The effect of fractionation of essential oil from *Pinus sylvestri* on the synergistic and antagonistic medicinal activities. *Kabale University Interdisciplinary Research Journal,* 2(1): 141–154**. Published by Kabale University.**

17. **Awojide S. H**., Fadunmade E. O., Oyewole A. K., Adeyemo G. A., Adeniyi E. O and Adebayo E. A. (2023). Comparative study on insecticidal activities of the crude and fractions of two essential oils *Adeleke University Journal of Sciences,* 2(1): 119–130. **Published by Adeleke University Ede, Osun State.**

18. Adeleke A. E., Onifade A. P., Adegbite A. A., **Awojide S. H.,** and Olawoye B. M. (2023). Adsorption of heavy metals from wastewater using chitosan-oxalic modified kolanut pod adsorbent. Nigeria Journal of Pure and Applied Sciences, 36(1):4582-4591. **Published by University of Ilorin.**

19. Oyewole A. K., Oyedara O. O., **Awojide S. H.,** Olawade M. O., Abioye O. E., Adeyemi F. M., Sadivar A. J., Adetunji C. O and Elufisan T. O. (2023). Antibacterial and in silico evaluation of β-lactamase inhibitory potential of Pinus sylvestris L. (Scots pine) essential oil. *National Academy of Science, Section B Biological Science*, **Published by springer.**

20. **Awojide S. H**., Fadunmade E. O., Oyewole A. K., Adeyemo G. A., Ogunniran T. D., Ademikanlu D. E and Adebayo E. A. (2023). Monodora myristica essential oils bioactivity against two grain storage insects. *Adeleke University Journal of Engineering and Technology*, 6(1): 123–129. **Published by Adeleke University Ede, Osun State.**

21. **Awojide S. H**., Dare C. A., Adeleke A. E., Oyewole A. K., Anifowose A. J., Fadunmade E. O., Adeyemo G. A and Tayo S. A. (2023). The effect of fermentation on the quality of oil extracted from the seeds of *Annona squamosa*. *UNIOSUN Journal of Engineering and Environmental Sciences*,

5(1) 150–159. **Published by the College of Engineering, Osun State University, Nigeria].**

22. **Awojide S. H**., Abiona O. O., Fadunmade E. O., Agbaje W. B., Tayo S. A., Oyewole A. K., Adeyemo G. A and Adedotun I. S. (2023). Determination of nitrification retarding activities of four plant essential oils. *Premier Journal of Engineering and Applied Sciences*, 4(1): 10–18. **Published by Nigerian Society of Engineers, Ibadan Branch, Nigeria.**

23. Adeleke M. A., **Awojide S. H**., Oyewole A. K., Oforka C.L., Surakat O. A., Fasasi K. A., and Mafiana C. F. (2023). Chemical composition and repellent activities of formulated creams from essential oils of three tropical plants against adults of *Simulium damnosum*. *Egyptian Academic Journal of Biological Sciences*, 16(1): 155–163. **Published by Egyptian Society of Biological Sciences.**

24. **Awojide, S. H.,** Akinlade, B., Oyewole, K. A., Adeyemo, A. G., Adeniyi, E. O., Fadunmade, O. E., and Anifowose, A. J. (2023). Synergistic and antagonistic medicinal activities of essential oil of Monodora myristica. CTU Journal of Innovation and Sustainable Development, 15(3), 1-11.

25. **Awojide, S. H.,** Ajayi, T. M., Oyewole, K. A., Adeyemo, A. G., Fadunmade, O. E., Adebayo, E. A., and Abdullahi, M. T. (2023). Phytotoxicity activities and chemical composition of the seed essential oil of Monodora myristica. CTU Journal of Innovation and Sustainable Development, 15(3), 55-63.

26. Oyewole, K. A., **Awojide, S. H.,** and Tayo, A. S. (2023). Chemical composition of essential oil in Piper nigrum from Nigeria and its bioactivity against stored-grain insects. Hue University Journal of Science: Natural Science, 132, 1B, 123–131.

27. **Awojide, S. H.,** Ajayi, G. T., Oyewole, K. A., Tayo, A. S., Adeleke, A. E., and Fadunmade, E. O. (2023). Phytotoxicity Activities of Essential Oil of Pinus sylvestris against Zea mays, Solanum lycopersicum, and Vigna unguiculata as Potential Bio-pesticides in Africa. *Asian Health, Science and Technology Reports*, *31*(4), 42–51.

28. **Awojide S. H**., Fadunmade E. O., Agbaje W. B., Tayo S. A., Adedotun I. S., Adeyemo G. A and Abdullahi M. T. (2022). Allelopathic activities and chemical composition of essential oil from *Piper umbellatum* as a potential Bio-herbicide in Africa. *Premier Journal of Engineering and Applied Sciences*, 3(3):1-9. **Published by Nigerian Society of Engineers, Ibadan Branch, Nigeria**

29. Anifowose A. J**.**, Salawudeen C., Osundiya F. O., Adelele A. E., **Awojide S. H**. and Kolawole T. O. (2022). Estimation of health risk to humans and source identification of heavy metals in a perennial river across the Osogbo Metropolis, Nigeria. *Environmental Sustainability,* https://doi.org/10.1007/s42398-022-00256-3. **Published by Springer]**

30. Agbaje W. B**.**, Abiona O. O., **Awojide S. H**., Azeez L. A. and Tayo S. A. (2021). Evaluation of pasting properties of plantain, cooking banana, selected cereals and their composites as indicators for their food values. *Tanzania Journal of Science*, 48(1):22-33. **Published by College of Natural and Applied Sciences, University of Dar es Salaam.**

31. Abiona O. O., **Awojide S. H**., Anifowose A. J**.**, Adegunwa A. O., Agbaje W. B. and Tayo A. S. (2021). Quality characteristics of extracted oil from the head and gills of Catfish and Titus fish. *Bulletin of the National Research Centre* 45:101. https://doi.org/10.1186/s42269-021-00557-3. **Published by Springer.**

32. **Awojide S. H**., Oyewole K. A., Abiona O. O and Agbaje W. B. (2021). Phytotoxicity of essential oil from *Piper nigrium* L. on some selected food crops as a potential herbicide in Africa. *African Journal of Pure and Applied Sciences*, 2(2): 93-99. **Published by University of Kenyatta.**

33. Adebisi S. A**., Awojide S. H**., Bakare R. A., and Adedotun I. S. (2021). Comparative study on insecticidal activity of permethrin with dust formulated essential oils of *Monodora myristica*, *Syzgium caryophyllatum* (L) Alston and *Pinus sylvestris*. Africa Journal of Physical Sciences, 6: 77-87. **Published by University of Nairobi.**

34. Anifowose A. J**.**, Ogundola A. O., Babalola B. M. and **Awojide S. H**. (2020). Measurement, source-profiling and potential toxicity of polycyclic aromatic hydrocarbons in an agrarian soil. *Environmental Processes*, 7, 827–844. DOI:10.1007/s40710-020-00446-3. **Published by Springer.**

35. **Awojide S. H**., Oyewole K. A., Abiona O. O., Agbaje W. B and Adebisi S. A. (2020). Comparative study of insecticides formulated from essential oils with two commercial insecticides. *LAUTECH Crop and Environmental Reviews*, 1(2): 75-82. **Published by the faculty of Agricultural Sciences, Ladoke Akintola University, Ogbomosho, Nigeria.**

36. Abiona O. O., Anifowose A. J., **Awojide S. H**., Adebisi O. C., Adesina B. T. and Ipinmoroti M. O. (2019). Histopathological biomarking changes in the internal organs of Tilapia (*Oreochromis niloticus*) and catfish (*Clarias gariepinus*) exposed to heavy metals contamination from Dandaru pond, Ibadan, Nigeria. *Journal of Taibah University for Science*, 13:1, 903-911, DOI: 10.1080/16583655.2019.1658400 **[Published by Tailor and Francis group].** Impact Factor: 2.688.

37. Adebisi S. A., Olasunkanmi A. O., Azeez L. A., **Awojide S. H**. and Adetoro R. O. (2019). Proximate and phytochemical analysis of *moringa oleifera* leaf and seed in Osogbo, Nigeria. *FUOYE Journal of Pure and Applied Sciences*, 4(1): 33-41. **Published by Federal University Oye-Ekiti, Nigeria.**

38. Abiona O. O., **Awojide S. H**., Odesanmi O. R., and Omiwole T. (2018). Quality assessment of oil extracted from commercially sold fried plantain chips within

Osogbo metropolis. *Journal of life and Physical Sciences*, 10(1): 91-101. **Published by Babcock University, Iwo, Nigeria.**

39. Fayemiwo K. A., Adeleke M. A**.**, Okoro O. P., **Awojide S. H**., B. T. and Awoniyi I. O. (2014). Larvicidal efficacies and chemical composition of essential oils of *Pinus sylvestris* and *Syzygium aromaticum* against mosquitoes. Asian Pacific Journal of Tropical Biomedicine, 4(1): 30-34. **Published by Elsevier.**

40. Abiona, O. O., **Awojide, S. H.,** Anifowose, A. J., Tayo, A. S., Yusuf, B. A., and Awoyemi, O. A. (2019). Quality Change of Fatty Acids in Oils Extracted from Oven - Dried and Smoked Clarias gariepinus based on Length of Drying and Smoking as Index. Uniosun Journal of Agriculture and Renewable Resources, 3.

41. Abiona, O.O., Adegunwa, A. O., **Awojide, S. H.,** Anifowose, A. J., Adeboye, A O., and Ogunsade, O. (2018). Determination of heavy metal contents in fresh and used oils of street-fried foods within Ibadan and Lagos, Nigeria. Uniosun Journal of Agriculture and Renewable Resources, 2.

42. Abiona, O.O., Adegunwa, A. O., **Awojide, S. H.,** Awoniyi I. O., Adeboye, A. O., and Ogunsade, O. (2020). Chemical and physicochemical properties of water samples obtained from Oke-Ola & Mafowurosere streams and Osun river as affected by Jaleyemi & Asubiaro hospitals eflluents (Osogbo, Nigeria). Science Focus Journal, 25, 166-177.

43. Abiona, O.O., Adegunwa, A. O., **Awojide, S. H.,** Anifowose, A. J., and Tayo, A. S. (2021). Incidences of polycyclic aromatic hydrocarbons in roasted plantains obtained within Osogbo metropolis, Nigeria. Journal of Science and Arts, 2, 55, 539-546.

44. Abiona, O. O., Adegunwa, A. O., **Awojide, S. H.,** Agbaje, W. B., and Tayo, A. S. (2020). Impact Assessment of Smoking Duration on Polycyclic Aromatic Hydrocarbons (PAH's) Contamination of Clarias gariepinus. UNIOSUN Journal of Engineering and Environmental Sciences, 2, 2.

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## L. CURRENT RESEARCH ACTIVITIES

### 1. Funded Research

(i) **Co-Investigator,** Chemical composition and repellent activities of formulated creams from essential oils of three tropical plants against adults of *Simulium damnosum*.
**Sponsor:** TETFund

Team Leader, Prof. Adeleke M. A, Osun State University.

### 2. Non-funded/self-sponsored Research

## M. CONFERENCES/ WORKSHOPS ATTENDED

(i) College of Science, Engineering and Technology Conference, UNIOSUN, Osogbo, Nigeria themed: Science, Engineering and Technology for enhanced national production and development: ongoing beyond theory, March 15–18, 2011.

(ii) Train-the-Trainer Workshop on Chemical Security held at the University of Port Harcourt, Nigeria, Jan. 9–11, 2018. (**Workshop**).

(iii) Workshop on Open and Distance Learning Course Materials held at Osun State University, Okuku, Nigeria, Mar. 20–21, 2019 (**Workshop**).

(iv) Workshop on Advance Digital Appreciation Programme for Tertiary Institutions held at Osun State University, Osogbo, Nigeria, Aug. 13–17, 2019 (**Workshop**).

(v) Research Training Webinar: Multidisciplinary training in research by the UNIOSUN Collaborative Research Group, Osogbo, Nov. 2-7, 2020.

(vi) Second International conference on Engineering and Environmental Sciences (ICEES)

(vii) Osun State University, Osogbo, Nigeria, November. 23–25, 2021

(viii) 7th Annual Symposium of the American Chemical Society, Nigeria International Chemical Sciences Chapter held at the Raw Materials Research and Development Centre, Abuja, Mar. 6-9, 2022.

(ix) 2022 ABUAD Annual International Conference, Afe Babalola University. March 6-10th, 2022.

(x) 2023 ACS Nigeria Chapter Annual symposium, Uyo, Akwa Ibom State. June 4-8, 2023.

## N. EXTRA-CURRICULAR ACTIVITIES

(i) Reading books

(ii) Playing football

## O. ANY OTHER RELEVANT INFORMATION

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## P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE

My research focuses on extractions from natural sources and accessing the activities of the extract in the control of insect infestations and weeds. My research also focuses on the evaluation of plant extracts as a possible medicinal use. More specifically,

(i) My research has shown evidence that essential oils from some plants can be used in the control of some storage pests.

(ii) My research has revealed the chemical components of some essential oils from Nigeria

(iii) My research has also shown that the vast components present in the essential oils could result in synergistic activity in some cases, but the activity could be antagonistic in others.

(iv) I have also produced dust formulations of the essential insecticides to see how their activity compares to some synthetic insecticides

(v) My research also led to the production of an essential oil-formulated cream to repel black flies so as to make it available as a safe repellent for the locals

(vi) My research has also determined the antioxidant activities of some essential oils for medicinal purposes.

(vii) The antidiabetic as well as anti-inflammatory activity of some essential oils was accessed to find their usefulness medicinally.

(viii) It also studied health effects of pollutants in several water bodies

These and many more findings of my scientific research have been published in reputable national and international journals.

| Awojide Shola Hezekiah |  | 04/03/2026 |
|---|---|---|
| STAFF NAME | SIGNATURE | DATE |