

CURRICULUM VITAE

01. PERSONAL DATA

- i. Name: Prof.(Mrs) OLAYINKA Oluwafunmilayo Olasunbo
ii. Date of Birth: 24th May 1970
iii. **Place of Birth:** Akure
iv. **Age:** 52 years
v. **Sex:** Female
vi. **Marital Status:** Married
vii. **Nationality:** Nigerian
viii. **Town and State of Origin:** Ilesa, Osun State
ix. **Contact Address :** Department of Environmental Management and Toxicology, Federal University of Agriculture, Abeokuta
x. **Phone Number:** +2348079897529 or +2348030706497
xi. **Email Address:** fummy2favour@yahoo.com.ph

02. EDUCATIONAL BACKGROUND

- (i) **Educational Institutions Attended (With Dates)**
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| a) Oluyole Estate Grammar School, Ibadan | 1983-1988 |
| b) Ondo State University (Ekiti State University), Ado-Ekiti | 1991- 1996 |
| c) University of Ibadan, Ibadan, Nigeria. | 1998- 1999 |
| d) University of Ibadan, Ibadan, Nigeria. | 2003- 2010 |
- (ii) **Academic and Professional Qualifications (With Dates)**
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| a. Senior Secondary School Certificate | 1988 |
| b. B.Sc Chemistry | 1996 |
| c. M.Sc Analytical Chemistry | 1999 |
| d. Ph.D Industrial Chemistry | 2010 |

Prizes, Honours, Scholarships, National and International Recognition,

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| a) University of Ibadan , Postgraduate School Award | 2009 |
| b) Netherlands Fellowship Programme (NFP): Certificate in Industrial Effluents Treatment and Residuals Management | 2018 |

03. WORK EXPERIENCE

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| a) Science Teacher, St. Brigid's Social Centre, Sabo, Ibadan. | 1997-1998 |
| b) Food Development Analyst, Batog Nigeria Limited, Ibadan. | 2000- 2002 |
| c) Assistant Lecturer, Ondo State University, Akungba (Ibadan Campus). | 2001-2002 |
| d) Lecturer III : Chemistry Lecturer, Department of Science Laboratory and Technology, Osun State Polytechnic, Iree. | 2002-2004 |
| e) Lecturer I : Chemistry Lecturer, Federal College of Wildlife Management New Bussa. | 2004 –2011 |

a. Details of Teaching at University Level.

- i. **Lecturer 1, Department of Environmental Management and Toxicology,
Federal University of Agriculture, Abeokuta** **2011 – 2014**
- ii. **Senior Lecturer, Department of Environmental Management and Toxicology,
Federal University of Agriculture, Abeokuta** **2014 – 2017**
- iii. **Reader, Department of Environmental Management and Toxicology,
Federal University of Agriculture, Abeokuta** **2017 – 2020**
- iv. **Professor, Department of Environmental Management and Toxicology,** **2020- Date**
Federal University of Agriculture, Abeokuta

b. Courses Taught

Course Code	Course Title	Unit(s)	Contact Hours	No. of Stds	No. of Lecturers	Session
EMT 201	Intro. to Environmental Sci.	3	2	73	2	2012-2013
EMT 202	Methods in Environmental Analysis	3	2	137	3	2012-Date
EMT 304	Hazardous Substance Mgt	3	3	125	2	2012-Date
EMT 305	Metals & the Environment	2	2	95	1	2011-Date
EMT 312	Environmental Aspect of Pesticides & Toxicants Usage	3	2	14	2	2011-2012
EMT 512	Petroleum & Environment	3	2	65	1	2012-Date
EMT 513	Environmental Biotechnology	3	2	65	1	2011-Date
EMT 515	Radionuclides	2	2	18	1	2012-Date

Courses Taught at Postgraduate Level

Course Code	Course Title	Unit(s)	Contact Hours	No. of Stds	No. of Lecturers	Session
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EMT 802	Environmental Pollution Studies	2	2	30	1	2011-Date
EMT 823	Toxicant in the Environment	2	2	28	2	2011-Date
EMP 825	Water Quality Ass. & Control	2	2	20	2	2011-Date
EMP 804	Environmental Monitoring	2	2	25	2	2011-Date

Undergraduate Students Supervision

BSc. Environmental Management and Toxicology Projects
 2011/2012 – 2019/2020 Session 56 students (Completed)
 2020/2021 Session 6 students (On-going)

04. SPECIAL ASSIGNMENTS/COMMUNITY SERVICE

Departmental Assignments

i.	SIWES Coordinator	2012- 2019
ii.	Departmental Laboratory Coordinator	2011- Date
iii.	Welfare Committee	2011- Date
iv.	PG Representative for Postgraduate Examinations	2014-Date
v.	Seminar Coordinator	2011/2012 Session
vi.	Member Equipment Maintenance Committee (EMC)	2011- Date
vii.	Level Adviser (100 Level)	2011/2012 Session
viii.	Level Adviser (400 Level)	2012/2013 Session
ix.	Level Adviser (400 Level)	2013/2014 Session
x.	Level Adviser (400 Level)	2014/2015 Session
xi.	Level Adviser (500 Level)	2015/2016 Session
xii.	Level Adviser (400 Level)	2016/2017 Session
xiii.	Level Adviser (400 Level)	2017/2018 Session
xiv.	Head of the Department	2018-2019 Session
xv.	Level Adviser (FNG1 &FNG11)	2020- Date

College Assignments

i.	Member, College Board College of Environmental Resources and Management (COLERM)	2011-Date
ii.	COLERM Representative at College of Natural Sciences Board	2011-2016
i.	COLERM Representative at College of Physical Sciences Board	2016-2018
ii.	COLERM Representative at College of Plant Science and Crop Production (COPLANT)	2017- 2019
iii.	Member, COLERM Ceremonial and Building Management	

- iv. Committee (CCBMC) 2014-2019
COLERM SIWES Coordinator 2018- 2019

Community Service

- i. Minister, Redeem Christian Church of God (RCCG), Parish, Oluyole, Estate, Ibadan. 2000-2011 His Lordship
- ii. Motivator for Young Ladies in Ashi, Bodija, Ibadan on Development. 2009-Date Successful Career
- iii. Annual Donation to Orphanage Homes. 2011-Date
- iv. Church Usher, Living Faith Church, Basorun, Ibadan 2011-Date
- v. Chairperson, Children Harvest at the Ebenezer Anglican Ijebu-Ode. February 2013 Church Wasimi,
- vi. Chairperson, Holy Trinity Anglican Church, Omutedo, Ilugun-Ijebu, Harvest of Restoration. November 10th 2013
- vii. Donation to Good Women, Holy Trinity Anglican Church, Ijebu 2016 Omutedo, Ilugun-

05. TRAINING PROGRAMMES ATTENDED WITH DATES

- i. Advanced Digital Appreciation Programme Tertiary (ADAPT) March 2008.
- ii. Workshop on Sound Training in Organic Agriculture at the Second FUNAAB International Summer School Opening Ceremony Programme. Organic Agriculture in Tertiary Institutions in Nigeria (OAPTIN), Senate Chamber, Federal University of Agriculture, Abeokuta. 2nd July 2012
- iii. 2-Day Step down capacity-building training for departmental SIWES coordinators and college representatives on: “Work-based learning, job analysis and career placement, held at International Scholars and Resource Centre (ISRC), FUNAAB, Monday 7-8th July 2014.
- iv. Write-shop for European Commission Funding Opportunities. Organized by the Directorate of Grants Management, Federal University of Agriculture, Abeokuta held at the Postgraduate School Auditorium, 8-9 April, 2014.
- v. Building Academic Leadership Capacity for Higher Education in the 21st Century Organized Centre for Innovation and Strategy in Learning Technologies (CISLT) Federal University of Agriculture, Abeokuta 21ST June, 2016.

06. COMMENDATION

Nil

07. MEMBERSHIP OF PROFESSIONAL BODIES

- i. Member, Institute of Chartered Chemists of Nigeria
- ii. Member, Chemical Society of Nigeria
- iii. Member, Science Association of Nigeria

08. RESEARCH INTEREST OR COMMISSIONED PROJECTS

Completed Projects

- i. Remediation of the polluted soil from Exide Battery, Iwofun Olodo, Ibadan 2016
- ii. Effect of brewery effluent on the soil and crop plant. 2015
- iii. Determination of the adhesive strength of modified sorghum starches 2014

In Progress

- i. Water quality assessment for drinking water in Abeokuta Metropolis
- ii. Determination of organic pollutant (aliphatic and aromatic hydrocarbons in dumpsites in Abeokuta metropolis
- iii. Determination of heavy metals in roadside soil and vegetable
- iv. Determination of heavy metals and PCB in Eleyele Lake sediment, water and fish
- v. Phosphorous speciation and heavy metals in Ogun river sediment.

09. PUBLICATIONS

- i. Research Reports, Dissertation and Thesis
 - i. **Olayinka, O.O. (1996):** Extraction and Physico-chemical properties of cashew nut oil (*Anacardium occidentale*) B.Sc Research Report, Submitted to Department of Chemistry, University of Ado-Ekiti, Ado-Ekiti, Nigeria. 50 p.
 - ii. **Olayinka, O.O. (1999):** Determination of iron and manganese in Nigerian foodstuffs M.Sc. Dissertation, University of Ibadan, Ibadan, Nigeria. 80 p.
 - iv. **Olayinka, O.O. (2010):** Physicochemical properties, retrogradative behaviour and x-ray diffraction of native and modified starches of three varieties of sorghum (Bicolor *L. Moench*. Ph.D Thesis, University of Ibadan, Ibadan, Nigeria. 201 p.
- ii. Articles in **Learned Journals**
 - f1. Adebowale, K. O., Olu-Owolabi, B. I, **Olayinka, O.O.** and Lawal, O.S. (2005): Effect of Heat-Moisture Treatment and Annealing on Physico-Chemical Properties of Red Sorghum Starch. *African Journal of Biotechnology*. 4(9):928-933. Published by Academic Journals. P.O. Box 5170-00200 Nairobi, Kenya.
 - f2. **Olayinka, O.O.**, and Adebayo, E.A. (2006): Extraction and Analysis of the Oil obtained from *Anacardium occidentale* (Cashew nut). *International Journal of Chemistry*. 16(4):241-244. [Published by Institute of Science and Technology, India](#)
 - f3. **Olayinka, O.O.**, B.B. Adeleke., Ajayi, O.A., Onifade, A.J. (2007): Proximate Analysis and Physicochemical Properties of *Cola millenii* Seed Oil. *International Journal of Chemistry*. 17(1):73-75. [Published by Institute of Science and Technology, India](#)
 - f4. **Olayinka, O.O.**, Adebowale, K.O., Olu-Owolabi, B.I. (2008): Effect of Heat-Moisture Treatment on Physicochemical Properties of White Sorghum Starch. *Journal of Food Hydrocolloids*. 22:225-230. Published by Elsevier. Germany
 - f5. **Olayinka, O.O.** and Ipeaiyeda, A.R. (2011): Chromium and lead concentrations in tomatoes (*Solanum lycopersicum*) and red pepper (*Capsicum frutescens*) cultivated in roadside farmland around high traffic density area of Ibadan, Nigeria. *Soil and Sediment, Contamination*. 20:1-11. Published [by](#) Taylor and Francis. United Kingdom
 6. **Olayinka, O.O.**, I. B. Ariyo, T .R. Fasola and J.A. Oyeniran. (2011): Phytochemical Constituents, Anti-Microbial Activity and Elemental Analysis of *Zanthoxylum zanthoxyloides* (Lam.) Watern. *Journal of Forestry Research and Management*. 8:80-91. Published by Forestry Research Institute of Nigeria.

- f7. **Olayinka, O.O.**, Olu-Owolabi, B.I. and Adebowale, K. O. (2011): Effect of Succinylation on the Physicochemical, Rheological, Thermal and Retrogradation Properties of Red and White Sorghum Starches. *Journal of Food Hydrocolloids*. 25(2):515-520. Published by Elsevier, Germany
- f8. Ashifat, A.A., Omotugba, S.K., Kehinde, A.S. **Olayinka, O.O.** and Edugbola, G.O. (2012): Proximate Evaluation of Nutritional Value of Mango (*Magnifera indica*). *International Journal of Research in Chemistry and Environment*. 2(4): 244-245. Published by International Journal of Research in Chemistry and Environment (IJRCE). India.
- f9. **Olayinka, O.O.**, Kareem, A.M., Ariyo, I.B., Omotugba, S.K. and Oyebanji, A.O. (2012): Antioxidant Contents (Vitamin C) of Raw and Blanched Different Vegetable Samples. *Food and Nutrition Sciences*. 3(1):18-21. Published by Scientific Research, USA.
- f10. Adedeji, O.H. and **Olayinka, O.O.** (2013): Heavy Metal Concentrations in Urban Stormwater Runoff and Receiving Stream. *Journal of Environment and Earth Sciences*. 3(7): 141-150. Published by International Institute for Science, Technology and Education (IISTE), USA. Available online at: <http://www.iiste.org>
11. Adedeji, O.H., **Olayinka, O.O.** and Oyebanji, F.F. (2013): Assessment of Traffic Related Heavy Metals Pollution of Roadside Soils in Emerging Urban Centres in Ijebu-North Area of Ogun State, Nigeria. *Journal of Applied Science and Environmental Management*. 17 (4):509-514. Published by World Bank assisted National Agricultural Research Project (NARP) University of Port-Harcourt, Nigeria. Available online at www.bioline.org.br/ja
- f12. **Olayinka, O.O.**, Adedeji, O.H. and Oladeru, I.B. (2013): Water Quality and Bacteriological Assessment of Slaughterhouse Effluent on Urban River in Nigeria. *Journal of Applied Science in Environmental Sanitation*. 8(4):277-286. Published by Department of Environmental Engineering Sepuluh Nopember Institute of Technology, Surabaya and Indonesian Society of Sanitary and Environmental Engineers (IATPI) Jakarta, Indonesia. Available online at <http://www.trisanita.org/jases>
- f13. **Olayinka, O.O.**, Adebowale, K.O. and Olu-Owolabi, B.I. (2013): Physicochemical Properties, Morphological and X-Ray Pattern of Chemically Modified White Starch. (Bicolor-Moench). *Journal of Food Science and Technology*. 50(1):70-77. Springer, Published by Association of Food Scientists and Technologists, Germany.
- f14. Adedeji, O.H., **Olayinka, O.O.** and Nwanya, F.C. (2014): Soil and Water Pollution Levels in and Around Urban Scrapyards. *Journal of Environmental Science, Toxicology and Food Technology*, 8(4). Ver. II: 01-08, Published by International Organization of Scientific Research, USA. Available online at www.iosrjournals.org.
- f15. Adedeji, O.H. and **Olayinka, O.O.** (2014): Concentrations of Heavy Metals in Dumpsite Leachate and Effects on Adjacent Stream on Ajakanga, Ibadan, Nigeria. *Journal of*

Applied Science in Environmental Sanitation. 9(2):113-122. Published by Department of Environmental Engineering, Sepuluh Nopember Institute of Technology (ITS) Surabaya, and Indonesian Society of Sanitary and Environmental Engineers (IATPI) Jakarta, Indonesia. Available online at <http://www.trisanita.org/jases>

- f16. Adedeji, O.H. and **Olayinka, O.O.** (2014): Micro-Pollutants in Urban Residential Roof Runoff: Environmental and Health Implications. *[Journal of Environmental Science, Toxicology and Food Technology.](#)* 8(2) Ver.III: 55-63 Published by International Organization of Scientific Research, USA. Available online at www.iosrjournals.org
- f17. **Olayinka, O.O.** Adedeji, O.H. and Sanni, S.S. (2014): Water Quality of Hand-Dug Wells at Close Proximity To Pit Latrine And Its Health Implication in Isara-Remo. *[Journal of Environmental Science, Toxicology and Food Technology.](#)* 8(6) Ver. II:56-64. Published by International Organization of Scientific Research, USA. Available online at www.iosrjournals.org
- f18. **Olayinka, O.O.**, Adedeji, O.H. and Dada, O. (2014): Determination of Concentrations of Heavy Metals in Municipal Dumpsite Soil and Plants at Oke-Ogi, Iree, Nigeria. *[International Research Journal of Pure & Applied Chemistry.](#)* 4(6): 656-669, Published by Science Domain International, Third Floor, 207 Regent Street, London, W1B 3H. United Kingdom. Available online at <http://www.sciencedomain.org>
- f19. Olu-Owolabi, B.I., **Olayinka, O.O.**, Adegbemile, A.A. and Adebowale, K. O.(2014): Comparison of Functional Properties between Native and Chemically Modified Starches from Acha (*Digitaria* Stapf) Grain . *[Food and Nutrition Sciences.](#)* 5:222-230. Published by Scientific Research, USA.
- f20. **Olayinka, O.O.** and Adedeji, O.H. (2014): Concentration of Heavy Metals in Soils and Water near Some Mechanic Villages in Abeokuta Metropolis, Ogun State, Nigeria. *[Journal of Advances in Chemistry.](#)* 8(3):1667-1679. Published by Council for Innovative Research, USA. Available online at www.cirworld.com
- f21. Adedeji, O.H. and **Olayinka, O.O.** (2015): Assessment of Groundwater Contamination by Textile Effluent of Discharges in Ikorodu, Nigeria. *[Applied Environmental Research.](#)* 37 (1): 35-48. Published by Environmental Research Institute, Chulalongkorn University, Bangkok., Thailand Available online at <http://www.tci-thaijo.org/index.php/jer>
22. **Olayinka, O.O.**, Adedeji, O.H. and Ajibola, F.O. (2015): Monitoring Gaseous and Particulate Air Pollutants near Major Highways in Abeokuta, Nigeria. *[Journal of Applied Science and Environmental Management.](#)* 19(4):751-758. Published by World Bank assisted National Agricultural Research Project (NARP) [University of Port-Harcourt, Nigeria](#) Available online at www.bioline.org.br/ja
23. **Olayinka, O.O.**, Adedeji, O.H. and Balogun, Yewande. (2015): Air and Heavy Metal Pollution around a Steel Foundry in Ogijo, Ogun State, Nigeria. *[Journal of Science Research,](#)* 14:9-16. Published by the Faculty of Science, University of Ibadan, Ibadan, Nigeria

- f24. **Olayinka, O.O.**, Adedeji, O.H. and Ipeaiyeda, R.A. (2015): Determination of Polycyclic Aromatic Hydrocarbons (PAHs) on selected Dumpsites in Abeokuta Metropolis, SW, Nigeria. *Applied Environmental Research*. 37 (3): 33-48. Published by Environmental Research Institute, Chulalongkorn University, Bangkok., Thailand. Available online at <http://www.tci-thaijo.org/index.php/jer>
- f25. **Olayinka, O.O.**, Adebowale, K.O. and Olu-Owolabi, B. I. (2015): Effect of Chemical Modifications on Thermal, Rheological and Morphological Properties of Yellow Sorghum Starch. *Journal of Food Science and Technology*. 52(12): 8364- 8370, Springer, [Published by Association of Food Scientists and Technologists. Germany](#)
- f26. Adedeji, O.H., **Olayinka, O.O.**, and Tope-Ajayi, O.O. (2016): Mapping of Traffic- Related Air Pollution Using GIS Techniques in Ijebu-Ode, Nigeria. *Indonesian Journal of Geography*. 48 (1): 76 – 86. Published by the Faculty of Geography, Gadjah Mada University (UGM) and The Indonesian Geographers Association, Indonesia Available online at: <http://jurnal.ugm.ac.id/index.php/ijg>
- f27. **Olayinka, O.O.**, Adedeji, O.H., Oresanya, O.J. and Alabi-Thompson, O.F. (2016): Environmental and Health Impact of Cement Factory Production in Ibese, Ogun State, Nigeria. *Applied Environmental Research*. 38 (2): 93-110. Published by Environmental Research Institute, Chulalongkorn University, Bangkok., Thailand
28. Adedeji, O.H., **Olayinka, O.O.**, and Oladimeji, O (2017): Physicochemical and Microbiological Examination of Hand-Dug Wells, Boreholes and Public Water Sources in Selected Areas of Ibadan, Nigeria. *Journal of Applied Science and Environmental Management*. 21(3): 576-584. Published by World Bank Assisted National Agricultural Research Project (NARP) University of Port-Harcourt. Available online at www.bioline.org.br/ja
29. Adedeji, O.H., **Olayinka, O.O.**, Badejo, A.A. and Osunde, E.O. (2016): Assessing Heavy Metals in Soil and Groundwater Around Petrol Stations in Abeokuta Metropolis, Nigeria. *Journal of Science Research*. Faculty of Science, University of Ibadan, Ibadan, Nigeria Vol. 15. Published by Faculty of Science, University of Ibadan, Ibadan, Nigeria.
30. Adedeji, O.H., **Olayinka, O.O.**, Badejo, A.A. and Adedokun, N. (2017): An Assessment of Ambient Air Quality Around Diesel Powered Telecommunication Base Stations in Abeokuta, South-western Nigeria. *International Journal of Ecology and Environmental Studies (IJEES)*. 4(1), Published by Institute of Ecology and Environmental Studies. Obafemi Awolowo University, Ile-Ife, Osun State, Nigeria.
- *31. **Olayinka, O.O.**, Akande, O.O., Bamgbose, K. and Adetunji, M.T. (2017): Physicochemical Characteristics and Heavy Metal Levels in Soil Samples Obtained from Selected Anthropogenic sites in Abeokuta, Nigeria. *Journal of Applied Science and Environmental Management*. 21(3): 883-891. Published by World Bank Assisted National Agricultural Research Project (NARP) University of Port-Harcourt. www.bioline.org.br/ja
- *f32. **Olayinka, O.O.**, Adedeji, O.H. and Akinyemi, A.A. and Oresanya, O.J. (2017): Assessment of the Pollution Status of Eleyele Lake, Ibadan, Oyo State, Nigeria. *Journal of Health and Pollution* Vol. 8, No. 15.

- *f33. **Olayinka, O.O., Adewusi, A.A., Olujimi, O.O. and Aladesida, A.A. (2018): concentration of Polycyclic Aromatic Hydrocarbons and Estimated Human Health Risk of Water Samples Around Atlas Cove, Lagos, Nigeria. *Journal of Health and Pollution* Vol. 8, No. 20**
- *f34. Azeez, J. O., Ojewande, B. O. **Olayinka, O. O.** and Adesodun, J. K. (2018): Impact Assessment of Organic Farming on Soil Nutrients and Heavy Metal Content. *Pertanika Journal Tropical Agricultural Science* 41 (4): 1811-1831.
- *35 Soyingbe, A.A., **Olayinka, O.**, Bamgbose, K. and Adetunji, M.T. (2019): Effective Management of Faecal Sludge through Co-Digestion for Biogas Generation. *Journal of Applied Science and Environmental Management*. 23(6): 1159-1168. Published by World Bank Assisted National Agricultural Research Project (NARP) University of Port-Harcourt. www.bioline.org.br/ja
- *36. Terebo, O., **Olayinka, O.O.**, Bamgbose, O., Abdul, W.O. and Martins, O. (2019): Physicochemical Quality of Borehole water of selected Settlements in the Coastal Area of Ondo-State, *Nigeria Journal Chemical Society. Nigeria*, Vol. 44, No. 5, pp 846 -857
- *37. Soyingbe, A.A., **Olayinka, O.O.**, Bamgbose, O. and Adetunji, M.T. (2019): Compositional Analysis of Biogas Produced from Faecal Sludge Co-digested with organic feedstocks, *Journal Chemical Society. Nigeria*, Vol. 44, No. 5, pp 858 -870
- *38. Adedeji, O.H., **Olayinka, O.O.**, and Tope-Ajayi, O.O and Awosika, D.A. (2019): Spatial Distribution and Health Risk Assessment of Heavy Metals in Urban Parks and Gardens Soils in Lagos State, Nigeria. *Journal of Agricultural Science and Environment*, 18(1&2): 16-35.
- *f39. Adedeji, O.H., **Olayinka, O.O.**, and Tope-Ajayi, O.O (2019): Spatial Distribution and Health Risk Assessment of Soil Pollution by Heavy Metals in Ijebu- Ode, Nigeria. *Journal of Health and Pollution*, Vol. 9, No. 22
- *f40. **Olayinka, O.O.**, Adewusi, A.A., Olujimi, O.O. and Aladesida, A.A. (2019): Polycyclic Aromatic Hydrocarbons in Sediment and Health Risk of Fish, Crab and Shrimp Around Atlas Cove, Nigeria. *Journal of Health and Pollution*, Vol. 9, No. 24
- *f41. Olujimi, O.O., Ayoola, R., **Olayinka, O.O.**, Dosunmu, O., Rotimi, S. and Aladesida, A.A. (2020): Evaluation of antioxidant enzymes performances and DNA damage induced by bisphenol A and diisobutylphthalate in *Hyperiodrilus africanus*-earthworms. *Journal of Emerging Contaminants*, Vol.6, pp 1-9.
42. Adedeji, O.H., **Olayinka, O.O.**, Tope-Ajayi, O.O. and Azeez, O.I. (2020): Land use/Land cover changes due to Quarrying in Odeda Local Government Area of Ogun State, Nigeria: An Assessment and Implication for Rural Livelihood. *Journal of Meteorology and Climate Science*, 18 (1): 113-122.
43. Adedeji, O.H., **Olayinka, O.O.**, and Tope-Ajayi, O.O and Adekoya, A.S. (2020): Assessing spatial distribution, potential ecological and human health risks of soil heavy metals contamination around a Trailer Park in Nigeria. *Scientific African*, 10: 1-14.

44. Adedeji, O.H., **Olayinka, O.O.**, Ogundiran, T and Tope-Ajayi, O.O (2020): Urban Flood Impacts, Flood Water Quality and Risk Mapping of Olodo area, Ibadan, Nigeria.
Journal of Natural Science, Engineering and Technology, 19(1&2): 56-73.
45. **Olayinka, O.O.**, Adedeji, O.H. and Ahmed, S.A. (2020): Oil spillage measures caused drastic reduction in total petroleum hydrocarbon levels in petroleum depot in Ibadan, Southwestern Nigeria. *Cogent Environmental Science*, Vol. 6, No 1826744 :1-19.
46. Terebo, O., **Olayinka, O.O.**, Soyingbe, A.A., and Bambgose, O. (2022): Levels of Polyaromatic Hydrocarbons in Borehole water of Selected Settlements in the Coastal Area of Ondo-State, Nigeria. *International Journal of Current Research and Applied Studies*, 1 (2): 74-82.
47. Terebo, O., Soyingbe, A.A., **Olayinka, O.O.**, and Bambgose, O. (2022): Microbial Quality of Borehole water and prevalence of water-related diseases in Selected Settlements in the Coastal Area of Ondo-State, Nigeria. *International Journal of Advanced Research in Science, Engineering and Technology*, 9 (6): 19394 -19402.
48. Terebo, O., **Olayinka, O.O.**, Soyingbe, A.A., and Bambgose, O. (2022): Endemicity of water-related diseases and Efficacy of Questionnaire based Indices in Selected Riverine settlements of Ondo-State, Nigeria. *Palgo Journal of Biological Science*, 1(1): 1-10.

49. Adedeji, O.H., **Olayinka, O.O.**, Badejo, A.A. and Osunde, E.O. (2022): Spatial distribution and Environmental Risk Assessment of Petrol Stations in Abeokuta Metropolis. *Journal of Applied Science and Environmental Management*, Vol.26, No 11:1843-1850.
- iii. Chapters in Books
Nil
- iv. Edited Conference Proceedings
50. Omotugba S. K., Meduna A. J., **Olayinka O. O.**, Akhigbe B. I., Ajibade, E. A and Inuwa M. (2009): Physicochemical Study of Borehole Water in Some Selected Areas of Kainji Town. Book of Abstract (2009). **44th Annual Conference and 50th Anniversary Celebration Science Association of Nigeria (SAN)**. Adebowale, O.A. and Ogunniyi, A.B. (Eds.). 1-2. Published by SAN
51. Olafadehan, O.A. Olafadehan, O.O., Obun, C.O., Yusuf, A.M., Adeniji, A., **Olayinka, O.O.**, and Abdullahi. B. (2009): Intake and Digestibility of Red Sokoto Goats Fed Varying Proportions of Andropogon Gayanus and Pterocarpus Erinaceus Forage. **Proceedings of 14th Annual Conference of Animal Science Association of Nigeria (ASAN)**. Akinlade, J.A., Olayemi, T.B., Rafiu, T.A., Akinwunmi, A.O., Aderinola, O.A., Ojebiyi, O.O and Odunsi, A.A. (Eds.). 572-575. Published by ASAN.
52. Yusuf, A.M., Garba, M.B., Irokanulo, U.O., **Olayinka, O.O.**, Fajobi, A. Obun, O. and Adeleke. A.M. (2010): Effect of Mango (*Magnifera Indica*) Seed Kernel Meal Based Diets on the Heamatology of Grower Rabbits (2010). **Proceeding of 35th Annual Conference of the Nigeria Society for Animal Production (NSAP)**. Babayemi, O.J., Abu, O.A. and Ewuola, E.O. (Eds.). 194-196. Published by NSAP
53. Adedeji, O.H., Olayinka, O.O., Awojobi, T.G. (2019): Assessment of Radionuclides and Potential Health Risk of Exposure to Heavy Metals in Soils of Residential Areas in Odeda, Nigeria. **Proceeding of the 2nd International Medical Geologists Association (IMGA-Nigeria Chapter)** Olatunji, A.S, and Olajide-Kayode, Jerry. (Eds.). 12-14. Published by IMGA.
- a. Technical Reports/Exhibition/Patents
Nil
- b. **Papers Submitted for Publication**
54. **Olayinka, O.O.**, Adebowale, K.O. and Adetoro, B.I. Functional Properties of Native, Physical and Chemical Modified Breadfruit (*artocarpus aralis*) Starch. *Journal of Agricultural and Food Chemistry*.
55. **Olayinka, O.O.**, Olujimi, O.O, Azeez, J.A. and Opatoyinbo, B.E Phosphorous speciation and heavy metals in Ogun river sediment. *Arabian Journal of Chemistry*.
10. MAJOR CONFERENCES ATTENDED WITH PAPER READ
- i. **2nd Annual Conference on Environmental Health Sciences held at the University of Ibadan, Nigeria, November 10 -15, 2014.**
 Paper presented: Heavy Metals and PCBs Concentrations in Eleyele Lake, Ibadan, Oyo State, Nigeria.
- ii. **3rd Annual Conference on Environmental Health Sciences held at the University of Ibadan, Nigeria,**

November 1 -5, 2015.

Paper presented: Heavy metals and PCBs concentration in Eleyele lake, Ibadan, Oyo State. Nigeria.

iii. **3rd Annual Conference on Environmental Health Sciences held at the University of Ibadan, Nigeria, November 1 -5, 2015.**

Paper presented: Environmental Pollution around Petrol Stations in Abeokuta Metropolis, Ogun State, Nigeria.

iv. **57th Annual Conference of the Nigerian Geographical Association (ANG) University of Lagos 2016. 10-15th April 2016.**

Paper presented: Urban Flood Risk and Vulnerability Mapping around Olodo River, Ibadan, Nigeria.

11. INFORMATION ON FELLOWSHIP, MASTER'S PROJECTS AND PHD THESIS SUPERVISED
MEM Research Supervised

S/No	Title of Report	Name of Student	Date/Year of commencement	Completed/Ongoing (anticipated date of completion)	Sole/ collaborative Supervision
1	Impact assessment of water quality of hand-dug wells at close proximity to pit latrine and its health implication in Isara –Remo.	Sanni, S.S. Matric No PG 10/0225	2012	Completed	Major supervisor
2	Water quality and bacteriological assessment of slaughterhouse effluent on urban river in Nigeria.	Oladeru, I.B. Matric No PG 10/0221	2012	Completed	Major supervisor
3	Assessment of gaseous and particulate pollutants along high traffic roads and its impacts in	Ajibola, F.O. Matric No PG 12/0254	2013	Completed	Major supervisor

**Abeokuta
Metropolis.**

4.	Effect of cement dust on the environment: A case study of Dangote Cement Plant, Ibese Ogun State.	Balogun, M.Y. Matric No PG 12/ 0244	2013	Completed	Major supervisor
	Effect of cement dust on the environment: A case study of Dangote Cement Plant Ibese, Ogun State.				
5.	Urban Flood Risk and Vulnerability Mapping around Olodo River, Ibadan, Nigeria.	Alabi- Thompson O.F. Matric No PG 13/0656	2014	Completed	Major supervisor
6.		Ogundiran, T. Matric No PG 13/0922	2014	Completed	Major supervisor
7.	Environmental and health impact of solid waste management.	Durojaiye, A.A. Matric No PG 14/0759	2015	Completed	Major supervisor
8.	Impact of pulp and paper waste on the environment.	Qtusanya, K.G. Matric No PG 14/0038	2015	Completed	Major supervisor

9	Effects of Anthropogenic activities on water quality of Iju River.	Omoroga, T. Matric No PG 15/0666	2016	Completed	Major supervisor
10	Effects of Marine Pollution on Aquatic Organisms in Lagos, Nigeria.	Aderoh, J. Matric No PG 15/ 0677	2016	Completed	Major supervisor
11	Determination of PCBs from Olusosun Dumpsite Soil, Lagos.	Balogun, O. Matric No PG 16/0416	2017	Completed	Major supervisor
12	Effects of Pesticide on different Vegetables in Kajola LG, Iseyin	Tijani, S.O. Matric No PG 16/ 0490	2017	Completed	Major supervisor
13	Assessment of Hospital Wastes Generation and	Bamishe, M.F. Matric No PG 17/0565	2018	Completed	Major supervisor
14	quantity at Federal Medical Center, Lagos	O.A. Matric No PG 18/0128	2019	Completed	Major Supervisor
15	Effects of Toxic Chemicals on the Environment Effect of Cold room	Falola, M. PG 19/0864	2020	On-going	Major supervisor

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Industry.**

MEMP Dissertations Supervised

S/No	Title of Dissertation	Name of Student	Date/Year of commencement	Completed/Ongoing (anticipated date of completion)	Sole/ collaborative Supervision
1	Phytoremediation of Heavy metals in crude oil polluted soils using wild and improved variety of Eleusine indica and side corynbosa.	Aina, O.T. Matric No PG 11/0405	2012	Completed	Major-supervisor
2	Speciation and bioavailability of phosphorous in Ogun River sediments.	Opatoyinbo, O.E. Matric No PG 12/0277	2012	Completed	Major-supervisor
3	Determination of PCB and heavy metals in sediments and fish of Eleyele Lake in Ibadan.	Oresanya, O.J. Matric No PG 12/ 0278	2012	Completed	Major-supervisor
4	Determination of heavy metals in vegetables planted along Iba road in Lagos.	Efengbe, F.O. Matric No PG 12/ 0270	2012	On-going	Major-supervisor

5	Bioremediation of automobile spent oil contaminated soil using cow dung, poultry Manure and Kenaf.	Akinyode, K.T. Matric No PG 10/0212	2012	On-going	Co-supervisor
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6	Geospatial assessment of air quality and noise from generators used in base/transceiver stations in Abeokuta Metropolis, Ogun State.	Adedokun, N.A. Matric No PG 12/ 0264	2012	Completed	Co-supervisor
7.	Spatial distribution and environmental risk assessment of petrol stations in Abeokuta Metropolis.	Osunde, E. Matric No PG 12/0279	2012	Completed	Co-supervisor
8	Soil organic carbon and levels of heavy metals relationship as indicator of environmental pollution.	Akande, O.O. Matric No PG 12/ 0267	2012	Completed	Co-supervisor
9	Impact assessment of organic amendments on soil nutrients and heavy metals content in FUNAAB organic farm.	Ojewande, O.B. Matric No PG 13/ 0102	2013	Completed	Co-supervisor
10.	Evaluation of combustion characteristics of briquettes produced with sawdust and male inflorescent of <i>Elaeis guineensis</i> .	Afolabi, O.O. Matric No PG 12/302	2012	Completed	Co-Supervisor
11.	Determination of Bisphenol A and Nonylphenol in Soil, Leachate and ground water from selected Dumpsites in Ogun State.	Olanite, K.A. Matric No PG 13/0369	2013	On- going	Major Supervisor

12.	Aquatic Organisms as Bioindicators of Total Petrol Hydrocarbon Pollution Around Atlas Cove, Lagos.	Adewusi, A. A. Matric No PG 14/0029	2014	Completed	Major-supervisor
13.	Effects of storage temperature on leaching of Bisphenol A from Polyethylene Terephthalate Bottled water.	Akindele, O.D. Matric No PG 14/0102	2014	Completed	Major-supervisor
14.	Assessment of Anticancer Properties of <i>Launea taraxacifolia</i> (Wild Lettuce).	Arabambi, I.T. Matric No PG 14/0737	2014	On-going	Major-supervisor
15.	Toxicological assessment of treated dumpsite leachate using <i>Clarias gariepinus</i> (Burchell, 1822).	Raphael, A.O. Matric No PG 14/0953	2014	Completed	Co-supervisor
16.	Effect of solar radiation on Vitamin C content of selected Tropical fruits.	Oketooto, G.O. Matric No PG 14/0622	2014	On-going	Co-supervisor
17.	Assessment of the impacts land use change on water quality in Iju River in Ado-Odo LGA, Ogun State.	Akapo, T.O. Matric No PG 14/0112	2014	On-going	Co-supervisor
18.	Evaluation of the effect of Bisphenol A (BPA) and Diisobutylphthalate (DIBP) on	Ayoola, R.T.	2014	Completed	Co-supervisor

	DNA damage and the activities of antioxidant enzymes in earthworms. (<i>Hyperiodrilus africanus</i>).	Matric No PG 14/0006			
19.	Biofuel production from plant's seed oils and constraints to its large scale.	Sodipo, O.A. Matric No PG 15/0077	2015	On-going	Major supervisor
20.	Anti-nutritive factors in fluted pumpkin (<i>Telfaira occidentalis</i>) as influenced by fertilizer types and levels.	Aibangbee, M.O Matric No PG 15 0030	2015	On-going	Co-supervisor
21.	Impact of treated leachate on growth and yield of vegetables.	Amusat, L. Matric No PG 15/ 0229	2015	On-going	Co-supervisor
22.	Atmospheric deposition along rural-urban gradient in Abeokuta Area	Kehinde, H Matric No PG15/0456	2015	On-going	Co-supervisor
23.	Geochemical, risk assessment and source identification, of selected metals in water and bottom sediments of Oyan Lake in Abeokuta, Ogun State.	Bakre, A. Matric No PG 16/0005	2016	Completed	Co-supervisor
24.	Effects of storage temperature on leaching of Bisphenol A and antimony from Polyethylene Terephthalate Bottled water	Kayode, S.	2016	On-going	Major

	Bioremediation of crude oil polluted soil using different Microorganisms	Matric No PG 16/0526			supervisor
25.	Determination of Heavy Metals and PAHs in Warri River	Okeniyi, E.T. Matric No PG 16/0078	2016	On-going	Major supervisor
26.	Profile distribution of potentially toxic element in plantain and banana production in Ovia South West, Edo State	Aderibigbe, O.J. Matric No PG 17/0035	2018	On-going	Major supervisor
27.	Environmental impact of Abattoir on water bodies. Case Study- Lafenwa Abattoir.	Oladipupo, S.O. Matric No PG 18/0384	2019	On-going	Major supervisor
28.	Assessment of Polycyclic Aromatic Hydrocarbons and Volatile Organic Compounds in Groundwater and Leachate from Landfill Sites in Southwest, Nigeria.	Oladosu, Z.A. Matric No PG 18/0524	2019	On-going	Major supervisor
29.	Evaluation of Pollution Level of Total Petroleum Hydrocarbon in Soil around	Ogunjinmi, O.F. Matric No PG 18/0053	2019	On-going	Major Supervisor

30.		Tank Farm in NNPC Depot, Apata, Ibadan	Oyebisi, Z.O.	Matric No PG 19/0115	2020	On-going	Major Supervisor
		Phytoremediation of Heavy Metals and Radionuclides from Ratcon Quarry Site Ibadan, Oyo State, Nigeria					
31.	22.	Atmospheric deposition along rural-urban gradient in Abeokuta Area	Ahmed, S.A.	Matric No PG 19/0187	2020	On-going	Major Supervisor
32.	23.	Geochemical, risk assessment and source identification, of selected metals in water and bottom sediments of Oyan Lake in Abeokuta, Ogun State.	Adetola, O.O.	Matric No PG 19/0897	2020	On-going	Major Supervisor
	24.	Effects of storage temperature on leaching of Bisphenol A and antimony from Polyethylene Terephthalate Bottled water					
	25.	Bioremediation of crude oil polluted soil using different					

	Microorganisms	PG 16/0078			
26.	Determination of Heavy Metals and PAHs in Warri River	Aderibigbe, O.J. Matric No PG 17/0035	2018	On-going	Maj or supe rvis or
27.	Profile distribution of potentially toxic element in plantain and banana production in Ovia South West, Edo State	Oladipupo, S.O. Matric No PG 18/0384	2019	On-going	Maj or supe rvis or
28.	Environmental impact of Abattoir on water bodies. Case Study- Lafenwa Abattoir.	Oladosu, Z.A. Matric No PG 18/0524	2019	On-going	Maj or supe rvis or
29.	Assessment of water quality parameters in Ofiki River, Shaki.	Ogunjinmi, O.F. Matric No PG 18/0053	2019	On-going	Maj or supe rvis or
30.	Assessment of Polycyclic Aromatic Hydrocarbons and Volatile Organic Compounds in Groundwater and Leachate from Landfill Sites in Southwest, Nigeria.	Oyebisi, Z.O. Matric No PG 19/0115	2020	On-going	Maj or supe rvis or

31.	Evaluation of Pollution Level of Total Petroleum Hydrocarbon in Soil around Tank Farm in NNPC Depot, Apata, Ibadan	Ahmed, S.A. Matric No PG 19/0187	2020	On-going	Maj or Sup ervis or
32.	Phytoremediation of Heavy Metals and Radionuclides from Ratcon Quarry Site Ibadan, Oyo State, Nigeria	Adetola, O.O. Matric No PG 19/0897	2020	On-going	Maj or Sup ervis or

Maj or Sup ervis or

PhD Theses Supervised

S/ Title of Thesis

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- 1** Assessment of faecal sludge disposal methods at Abeokuta metropolis for its economic potential and Ecosanitation.

 - 2** Comparative assessment of groundwater quality and upland rural settlements of Ondo State.

 - 3** Levels and effects of persistent organic pollutants (PCBs and PAHs) in breast milk, blood and urine of selected pre-exposed donors in Ogun State, Nigeria.

4	Effect of Tomato (<i>Lycopersicon esculentum</i>) plant extracts on the hematology and histopathology of <i>Claria gariepinus</i> , (Burchell, 1822) and <i>Oreochromis niloticus</i> (Trewavas , 1972) under laboratory condition.	Awogbade, A.A. Matric No PG 13/0769	2013	Ongoing	Co-supervisor
5	Electrospun Chitosan pyrrole-2-carboxyldehyde Schiff base for Complexation and Sensing of Toxic Metals.	Olugbemi, S.A. Matric No PG 13/0187	2013	Completed	Co-supervisor
6	Electrospun Diazenyl Functionalized Chitosan Compound as Chemsensor for in Aqueous Solutions.	Akinwunmi, F PG08/0114	2013	Completed	Co-supervisor
7	Chemical Speciation , Sorption Characteristics and Bioavailability of Selected Heavy Metals in Degraded Ultisol Amended with Biosolid in Imo State, Nigeria	Okoli,N.H PG16/0712	2021	Ongoing	Co-supervisor

12. EXTRA CURRICULAR ACTIVITIES

Reading
Listening to music

THRUST OF MY RESEARCH ACTIVITIES AND

CONTRIBUTION TO KNOWLEDGE

My postgraduate training gave me a broad background in Analytical, Environmental and Food Chemistry. Further research provided the opportunity of depth of knowledge in diverse analyses of chemical parameters of environmental importance. In this regard my contribution to knowledge is primarily on application of analytical techniques to detect and characterize toxic materials and its health implication in the environment, as well as production and analysis of starch novel of starch from sources and biogas for domestic and industrial uses.

Environmental Assessment of Organic Pollutants.

I demonstrated the sensitivity and specificity of atomic absorption spectrometry (AAS) and Gas Chromatography- Mass Spectrometry as versatile analytical techniques. Heavy metals as toxicants (lead, cadmium, zinc, copper, chromium and iron etc) in various environmental media were determined in water (**Publications 28,21,20,17,16, 14,15,12, 10 and 29**),soils (**Publications 27,20,18,14,11, 5,29 30,32, 42 and 43**) and plants (**Publications 23 and 5**). Effect of organic farming on soil nutrients and heavy metal contents was assessed. Findings showed that manure used in organic farming has liming effect on the soil while nutrients are concentrated at the soil surface (**Publication 34**). Anthropogenic activities from different urban land uses contribute significantly to the pollution levels (**Publications 38 and 39**).

Health Risk Assessment of Pollutants in the Environment .

Furthermore, pollutants in the environment were reported to have diverse effects on human health. I also investigated the health implication of some pollutants such as air pollutants in cement factory, steel foundry and major highways to examine the effects on the environment with particular reference to humans. The findings indicated unacceptably high concentrations of total suspended particulate matter, carbon monoxide, sulphur dioxide and nitrogen oxide. Water quality of hand-dug wells, boreholes and public water sources were analysed and results indicated higher physicochemical parameters and presence of some microorganisms including coliforms (**Publications 28, 27, 26, 23,22,21,17,16,14,12 and 36**).

Toxicity of polycyclic aromatic hydrocarbons (PAHs) remains a global challenge. PAHs on selected dumpsite soils were examined to provide base line data on Nigeria dumpsites. It was observed that some dumpsites were heavily polluted with PAHs due to the types of materials deposited on the sites (**Publication 24**). PAHs were also determined in water from various sources and human health risk estimated. The reports showed higher carcinogenic risks in children than adults (**Publication 33**). Very high concentrations of Polychlorinated biphenyl (PCBs) and heavy metals were found in lake water, sediments and fish above the World Health Organization (WHO) limits (**Publication 31**). Aquatic organisms as bio-indicators of PAHs pollution and its associated health risk were also investigated and concentrations of total PAHs was higher in fish than acceptable limits (**Publication 40**). In this vein, bisphenol A (BPA) and diisobutylphthalate (DIBP) in soil were found to induce oxidative stress and DNA damage in earthworms (**Publication 41**).

Analytical and Food Chemistry

Analysis of Vitamin C from raw and blanched vegetables at different time intervals was determined. The findings revealed that increase in duration of blanching caused reduction in level of the Vitamin. Extraction and compositional analysis of oil from under-utilized seed oils were studied. Findings showed that the oils obtained were comparable in quality to standard oils. In search for novel, cheap and sustainable raw materials for the production of starch due to overdependence on corn starch. I conducted research on isolation, physical and chemical modifications and characterization of the starch produced from under-utilized cereals such as varieties of Sorghum and Acha. The starch obtained were of comparable quality to corn starch which is used in food and pharmaceutical industries (**Publications 25, 19,13,9,8,7, 6,4,3,2 and 1**). Production of biogas using faecal sludge co-digested with various types of organic feed stock materials was investigated and materials were effective in producing quality biogas and nutrient rich bio-slurries as organic fertilizer (**Publication 35**). Biogas was highly rich in methane and comparatively more efficient than liquefied petroleum gas and kerosene in terms of cooking time (**Publication 37**). The frontiers of knowledge have also been extended by attending conferences and presentation of scientific paper as evidenced in the listed conference papers (**Publications 44, 45, 46 and 47**). In view of the fact that most of my studies centred on environmental pollution assessment using principles of analytical chemistry, it is appropriate that my Professorship be in Analytical and Environmental Chemistry.