

Profile

i. Brief Biography

Olayinka, Oluwafunmilayo O. obtained B.Sc in Chemistry (1996) from Ondo State University Ado-Ekiti, Ekiti State, Nigeria now Ekiti –State University, Masters (1999) and Ph.D. (2010) in Analytical Chemistry from the University of Ibadan, Nigeria. She also had a Certificate in Industrial Effluents Treatment and Residuals Management from the Institute for Water Education, UNESCO – IHE, Delft, Netherlands (2018). She roses through the ranks to the level of professor of Analytical and Environmental Chemistry in the Department of Environmental Management and Toxicology, Federal University of Agriculture, Abeokuta, Nigeria. She has about two decade of experience in teaching and training of students. Her research areas of interest are analytical and food chemistry, environmental pollution, toxicology, health risk assessment and environmental analysis of heavy metals, organic pollutants such as PAHs – (Polycyclic Aromatic Hydrocarbons), PCBs- (Polychlorinated Biphenyl), and endocrine disruptors such as nonyl phenol (NP), bis phenol A (BPA) and phthalate in river, water, soils, air, food, sediment, fish, electronic waste, plants, beverage and their impact on the environment and health. She has attended some conferences related to areas of her interest and also served in several committees. She is a member of some scientific societies like Science Association of Nigeria, (SAN), Chemical Society of Nigeria, (CSN), Institute of Chartered Chemist of Nigeria, (ICCON), Environmental Health Scientists Association, Nigeria. (EHSAN) and The Society of Environmental Toxicology and Chemistry (SETAC). She was appointed as the acting head of the Department from 1st August, 2019 to October, 2021. She teaches toxicology related courses to both undergraduate and postgraduate students. She has mentored thirty postgraduate students. She has over fifty-three academic publications in reputable peer review journals.

ii. Passport photography



iii. Personal Information

Sex:	Female
Marital Status:	Married
Nationality:	Nigerian
Town and State of Origin	Ilesa, Osun State

iv. Department Environmental Management and Toxicology,
Federal University of Agriculture, Abeokuta.

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olayinkaoo@funaab.edu.ng
- vi. Phone Number: +2348079897529 or +2348030706497
- vii. Rank: Professor
- viii. Designation: Professor
- ix. Research gate Address: [O. O. Olayinka \(researchgate.net\)](#)
- x. LinkedIn Address: [Funmi Olayinka | LinkedIn](#)
- xi. Google Scholar Profile: [O Olayinka - Google Scholar](#)
- xii. ORCID Number: <http://orcid.org/0000-0002-5773-1707>
- xiii. Qualification: Ph.D
- xiv. Membership of Professional Bodies: Member, Institute of Chartered Chemists of Nigeria
Member, Chemical Society of Nigeria
Member, Science Association of Nigeria
Member, Environmental Health Scientist Association, Nigeria
Member, The Society of Environmental Toxicology and Chemistry
- xv. Award Received: University of Ibadan, Postgraduate School
- xvi. Research Conducted: Water quality assessment of drinking water in Abeokuta Metropolis.
- Determination of organic pollutants on selected dumpsites in Abeokuta Metropolis, SW, Nigeria.
 - Determination of Heavy metals in soil and water in the vicinity of mechanic village in Abeokuta.
 - Identification and determination of polycyclic aromatic hydrocarbons (PAHs) from diesel engine exhaust.
 - Determination of BTEX and polycyclic aromatic hydrocarbons (PAHs) in petrol engine exhaust.
 - Determination of heavy metal concentration in selected brands of canned foods.
 - Qualitative assessment of greywater and its reuse for irrigation of vegetation. Determination of Cr from wastewater using sugarcane fibre
 - Determination of nicotine in tobacco leaves.
 - Comparative studies of biogas yield using poultry droppings and cow dung.
 - Persistent organic pollutants from incinerator soil in Abeokuta Metropolis.

- Determination of heavy metals and physico-chemical properties in pharmaceutical effluents.
- Environmental and Health Implications of Diesel Exhaust Particles.
- The Bio-protective efficacy of Garlic on Wister Rats exposed to DEP.
- Heavy Metals in crude oil polluted sites.
- Phthalate Ester in Baby Toys.
- Effect of Cement Factory on Air, Water and Plants.
- Polychlorinated Biphenyls in dumpsite soil and leachate
- Determination of Phenol in Textile wastewater.
- Determination Polychlorinated Biphenyl in Leachate and Groundwater from Dumpsite.
- Determination of Polycyclic Aromatic Hydrocarbon (PAHs) in Charcoal production in Alabata and Environs.

xvii. Conferences Attended: Edited Conference Proceedings

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

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.

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

Adedeji, O.H., Olayinka, O.O. and 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.

MAJOR CONFERENCES ATTENDED WITH PAPER READ

- **Olayinka, O.O.** and Adedeji, O.H. (2014): Air and Heavy Metal Pollution around a Steel Foundry in Ogijo, Ogun State, Nigeria. **Paper presented at Conference on Environmental Health Sciences- Ibadan 2014. 10th November to 14th November 2014, Adewole Hall, CESDEV, Bodija, Ibadan.**
- **Olayinka, O.O.**, Adedeji, O.H., Akinyemi, A.A. and Oresanya, O.J. (2015): Heavy Metals and PCB Concentrations in Eleyele Lake, Ibadan, Oyo State, Nigeria. **Paper presented at 3rd Annual Conference on Environmental Health Sciences held at the University of Ibadan, Nigeria, November 1 -5, 2015**
- Adedeji, O.H., **Olayinka, O.O.**, Osunde, E.O. and Badejo, A.A. (2015): Environmental Pollution around Petrol Stations in Abeokuta Metropolis, Ogun State, Nigeria. **Paper presented at 3rd Annual Conference on Environmental Health Sciences held at the University of Ibadan, Nigeria, November 1 -5, 2015**
- **Olayinka, O.O.**, Adedeji, O.H. Tope-Ajayi, O.O. and Ogundiran, T. (2016): **Urban Flood Risk and Vulnerability Mapping around Olodo River, Ibadan, Nigeria. Paper Presented at the 57th Annual Conference of the Nigerian Geographical Association (ANG) University of Lagos 2016. 10-15th April 2016**
- **Olayinka, O.O.** and Egbeyemi, M.M. (2021): Concentration of Phenolic Compounds in the Effluent and Water of a local Textile Industry. **Paper presented at 9th Annual Conference on Environmental Health Sciences held at the Adewole Hall, CESDEV, Bodija, Ibadan, November 21 -25, 2021.**

xviii. Publications.

- 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.
2. **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.
3. **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.
4. **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.
5. **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.
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.
7. **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.
8. 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.
 9. **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.
 10. 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.
 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.
 12. **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.
 13. **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.
 14. 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.
 15. 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.
 16. Adedeji, O.H. and **Olayinka, O.O.** (2014): Micro-Pollutants in Urban Residential Roof Runoff: Environmental and Health Implications. 8(2) Ver.III: 55-63.
 17. **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.
 18. **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.
 19. 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.
 20. **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.

21. 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.
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.
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.
24. **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.
25. **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.
26. 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.
27. **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.
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.
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*, 15: 41-48.
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*, 4(1), 6-19.
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(5): 883-891.
32. **Oluwafunmilayo O. Olayinka**, Hakeem Oludare Adedeji, Adeolu Akanji Akinyemi, Olusola Juwon Oresanya. (2017): Assessment of the Pollution Status of Eleyele Lake, Ibadan, Oyo State, Nigeria. *Journal of Health and Pollution*, 7 (15): 51-62.
33. Adedeji, O.H., **Olayinka, O.O.**, and Tope-Ajayi, O.O and Awosika, D.A. (2017): 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.

34. **Oluwafunmilayo O. Olayinka**, Adetomi Adeola Adewusi, Olarenwaju, Olusoji Olujimi, A.A.Aladesida (2018): Concentration of Polycyclic Aromatic Hydrocarbons and Estimated Human Health Risk of Water Samples Around Atlas Cove, Lagos, Nigeria. *Journal of Health and Pollution*, 8 (20):1-12.
35. 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.
36. 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.
37. O. Terebo, **O.O Olayinka** , O Bamgbose , W.O Abdul , O. Martins (2019): Physicochemical Quality of Borehole water of selected Settlements in the Coastal Area of Ondo-State, *Nigeria Journal Chemical Society*. Nigeria, 44 (5): 846 - 857.
38. A.A. Soyingbe , O Olayinka , O Bamgbose and M.T Adetunji (2019): Compositional Analysis of Biogas Produced from Faecal Sludge Co-digested with organic feedstocks *Journal. Chemical Society*. Nigeria, 44 (5): 858 -870.
39. 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*, 9 (22), 1-14.
40. **Oluwafunmilayo O. Olayinka**, Adetomi Adeola Adewusi, Olarenwaju, Olusoji Olujimi, A.A.Aladesida (2019): Polycyclic Aromatic Hydrocarbons in Sediment and Health Risk of Fish, Crab and Shrimp Around Atlas Cove, Nigeria. *Journal of Health and Pollution*, 9 (24): 1-21.
41. Olanrewaju Olujimi, Rhoda Ayoola, **Oluwafunmilayo Olayinka**, Oluwatosin Dosunmu, Solomon Rotimi, Adeyinka Aladesida (2020): Evaluation of antioxidant enzymes performances and DNA damage induced by bisphenol A and diisobutylphthalate in *Hyperiodrilus africanus*-earthworms. *Journal of Emerging Contaminants*, 6: 1-9.
42. **O.O. Olayinka**, O.H. Adedeji and S. A. Ahmed. (2020): Oil spillage measures caused drastic reduction in total petroleum hydrocarbon levels in petroleum depot in Ibadan, Southwestern Nigeria. *Cogent Environmental Science*, 6: 1826744.
43. O.H. Adedeji, **O. O. Olayinka**, T. Ogundiran and O. O. Tope-AJayi (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): 56-73.44.
44. O. H Adedeji, **O.O. Olayinka**, O.O. Tope-Ajayi, A.S. Adekoya (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.
45. 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*. 26 (11) 1843-1850.

46. 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.
47. O. Terebo, A.A. Soyingbe, **O.Olayinka**, O Bamgbose (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):1-9.
48. O. Terebo, **O.O Olayinka**, Soyingbe A.A, and O Bamgbose (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. O. Terebo, **O.O Olayinka**, Soyingbe A.A, and O Bamgbose (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.