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P.M.B 2240 Alabata
Abeokuta, Nigeria

Education

PhD	University of Reading, Environmental Science Dissertation: "Soil Characterization using Visible Near Diffuse Reflectance Spectroscopy"	2018 Infrared
MSc	Federal University of Agriculture Abeokuta, Environmental Management and Protection Thesis: "Effect of Preservation Methods on Trace Metal Concentration and Freshness Quality of Fish"	2012
BSc	University of Agriculture Abeokuta, Environmental Management and Toxicology Graduated with First Class Honors	2008

Research Experience

Monitoring of environmental pollutants in wetland soil and water		Current
<ul style="list-style-type: none">Investigating pollution status of wetland soilsEstimating ecological risks and health risk of heavy metals in soils, water and plants		
Effect of sewerage systems on groundwater quality		2019
<ul style="list-style-type: none">Investigated the potability of groundwater sources located around improperly built septic tanks within a community close to a University.		
Soil characterization using visible near infrared diffuse reflectance		2017 spectroscopy,
<ul style="list-style-type: none">Examined the potential of using visible near infrared diffuse reflectance spectroscopy for soil analysis with emphasis on soil organic carbon (SOC) and petroleum hydrocarbon.Provided evidence that VNIR DRS can be an important analytical approach to soil analysis particularly when and where costs and time are limiting conditions.		
Assessment of variability in proximate/anti-nutritive composition and potential of different soil fertility amendments in reducing oxalic acid accumulation in cocoyam.		2014 - 2017
<ul style="list-style-type: none">Coordinated a 3-member team with each individual research but all contributing to a central team of enhancing the potential of Cocoyam as a food security crop.Provided data on the proximate composition and anti-nutritive contents of available in Nigeria and Uganda.		cocoyam

- investigated the effect fertilizers on Oxalic acid accumulations in cocoyam cormels

Effect of Preservation Methods on Trace Metal Concentration and Quality of fish 2012 **Freshness**

- Assessed the quality and shelf – life of catfish and tilapia using different processing methods and stored at ambient temperature

Heavy Metals in Sediments of Ogun River, Ogun State, Nigeria 2007
Abeokuta

- Assessed the quality status of Ogun River, a major water source to the populace

Honours and Awards

MASHAV Scholarship	2018
International Foundation of Science Research Grant	2014
Nigerian Tertiary Education Trust Fund TETFUND	2012
Federal University of Agriculture, Abeokuta MSc. Scholarship	2009
Vice-chancellors Award for First Class Graduating Student	2008
Best Departmental Graduating Student	2008
AG Leventis Scholarship Undergraduate Students	2004 - 2007

Teaching Experience

Senior Lecturer	Jan 2022 - Till Date
Lecturer I	Oct 2018 - Dec 2021
Lecturer II,	Oct 2015 – Sept 2018
Assistant Lecturer	July 2012 – Sept 2015

Department of Environmental Management and Toxicology
Federal University of Agriculture Abeokuta, Nigeria

- Developed lecture notes, homework, tests and examination questions
- Taught undergraduates students
- Supervised undergraduate research project

Junior Research Fellow March 2009 - July 2012

Department of Environmental Management and Toxicology
Federal University of Agriculture Abeokuta, Nigeria

- Coordinated practical classes for undergraduate students
- Assisted in grading submitted works

Publications

Journal Publications

- Oyebanji, F. F., James, A. O., **Olatunde, K. A.**, Aremu, O. J. Solid Waste Management Practices and Health Risks Assessment of Heavy Metals in Soils Within Public Healthcare Facilities in Abeokuta, Southwest, Nigeria. *The Journal of Solid Waste Technology and Management*, 48(2). <https://doi.org/10.5276/JSWTM/2022.165>
- Olatunde, K.A.**, Adekola, M.B., Jimmy, T.A., Koko, O.O., Ekhaton, F.O. and Adekunle A.A. (2022). Contamination Status and Ecological Risk Assessment of Heavy Metals in Wetland Soil, Federal University of Agriculture Abeokuta Nigeria. *Nigerian Journal of Soil Science*, 32(1): 102 – 111.
- Olatunde, K.A.**, Oyebola J.A., Bada, B.S., Taiwo, A.M. and Ojekunle, Z.O. (2021). Assessment of Heavy Metal pollution of Wetland Soils in Ijokodo, Oyo State, Nigeria. *Journal of Meteorology and Climate Science*, 19: 22-28
- Olatunde, K.A** (2021): Analysis of Soil carbon using Chemometrics: A Comparison between Mid- infrared and Visible, Near Infrared Diffuse Reflectance Spectroscopy. *African Journal of Applied Ecology* 29(2): 1 – 11. <https://www.ajol.info/index.php/wajae/article/view/220020>
- Olatunde, K.A.**, Towolawi, T., Kolawole, I., Aiyelabola, N., Michael, O., Warrie, E., Oludiran, O. and Awomade, I. (2021). Soil Quality and Metal Distribution around Stone Quarries within Abeokuta, Southwest, Nigeria. *Ife Journal of Science*, 23(2): 53 - 61. <https://doi.org/10.4314/ijfs.v23i2.6>
- Olatunde, K.A.**, Sanni, M., Omodayo, A., Odedeyi, D., Eze, J., Ojo, A., Aje, D. and Oyewole, O. (2021). Assessment of Groundwater Quality and Hydrogeological Profiles within Odeda Local Government, Abeokuta, Southwest Nigeria. *Journal of Applied Science and Environmental Management*, 25(5): 705- 708. <https://dx.doi.org/10.4314/jasem.v25i5.5>
- Taiwo, A.M., Adekola, M.B., **Olatunde, K.A.**, Abdullahi, K.L., Ogunkoya, P.K., Lawal, E.R., Adenekan, A., Osayande J. A., Jimoh, O. and Oladimeji, G. (2021). Human Health Risk Assessment of Essential and Non-essential Metals in Vegetables (Jute Mallow, Onions, Celosia, Spinach and Tomatoes) from Ogun, Lagos and Oyo states, Southwestern Nigeria. *Vegetos*, 34: 390 - 403. <https://doi.org/10.1007/s42535-021-00217-x>
- Olatunde, K.A** (2021). Determination of Petroleum Hydrocarbon Contamination in Soil using VNIR DRS and PLSR Modeling. *Heliyon*, 7: e06794. <http://doi.org/10.1016/j.heliyon.2021.e06794>
- Olatunde, K.A**, Sarumi, M., Abdusalaam, S., Bada, B. and Oyebanji, F. (2021). Effect of Modified Septic Tank on Groundwater Quality around Federal University of Agriculture, Abeokuta, south-west Nigeria. *Applied Environmental Research*, 43(1):73-89. <http://doi.org/10.35762/AER.2021.43.1.6>
- Olatunde, K.A**, Sosanya, P.; Bada, B., Ojekunle, Z, and Abdusalaam, S. (2020): Distribution and Ecological Risk Assessment of Heavy Metals in Soils around a Major Cement Factory, Ibese, Nigeria. *Scientific African*, 9: e00495. Indexed in Scopus and Scimago. Published by Elsevier, Amsterdam, The Netherlands. Available at <http://doi.org/10.1016/j.sciaf.2020.e00496>
- Olatunde, K.A.**, Adebayo, K., Bada, B.S., Ojekunle, Z.O. and Towolawi, T.(2018). Effect of Different Soil Fertility Amendments on Oxalate Accumulation in Cocoyam. *Nigerian Journal of Life Sciences* 8(2): 97 - 101

- Olatunde, K.A.**, Adebayo, K., Muhumuza, J. and Bada, B. S. (2018). Assessment of variability in proximate/anti-nutritive composition of cocoyam within Nigeria and Uganda. *Journal of Applied science and Environmental Management* 22(5): 737 – 739. <https://www.ajol.info/index.php/jasem/article/view/172679>
- Ojekunle, Z.O., Oyeibanji, F.F., **Olatunde, K.A.** Amujo, B.T., Ojekunle, V.O., Sangowusi, O.R. and Taiwo, A.G. (2015). The Effects of Storage on Sachet Water Quality in Ogun State, Nigeria. *Journal of Applied Science and Environmental Management* 19(2): 183 – 189. <https://www.ajol.info/index.php/jasem/article/view/119892>
- Ojekunle, Z.O., Oyeibanji, F.F., **Olatunde, K.A.**, Sangowusi, O.R, Ojekunle , V. O., Amujo, B.T., and Dada, O.E. (2015). Global Climate Change: The Empirical Study of the Sensitivity Model in China’s Sustainable Development, Part 2. *Energy Sources, Part A: Recovery, Utilization, and Environmental Effects* 37: 861 – 869. <http://dx.doi.org/10.1080/15567036.2013.840695>
- Olatunde, K.A.**, Arowolo, T.A., Bada, B.S., Taiwo, A.M. and Ojekunle, Z.O. (2014). Distribution and enrichment of metals in sediments of Ogun River within Abeokuta, south western Nigeria. *Journal of Aquatic science* 39(1):17-22. <http://www.tandfonline.com/doi/abs/10.2989/>
- Bada, B. S., **Olatunde K. A.** and Taiwo, D.A. (2013). Heavy metal content of Soil and Jute Mallow (*Corchorusolitorus* L.) Collected from Organic and Inorganic Fertilizer Farms. *Journal of Agriculture, Forestry and the Social sciences* 10(2): 212-217. <https://www.ajol.info/index.php/joafss/article/view/98330>
- Taiwo, A. M., Adeogun, A. O., **Olatunde, K. A.** and Adegbite, K. I. (2011). Analysis of Groundwater Quality of Hand-Dug Wells in Peri-Urban Area of Obantoko, Abeokuta, Nigeria for Selected Physico-Chemical Parameters. *Pacific Journal of Science and Technology* 12(1): 527-534. http://www.akamaiuniversity.us/PJST12_1_527.pdf

Journal Articles Accepted for Publication

- Olatunde, K.A.** Ayinde O.; Towolawi, A.T.; Oyeibanji, F.F. Bada, B.S. Potability and Irrigation potential of groundwater within Federal University of Agriculture Abeokuta. *Journal of Agricultural science and Environment*.

Conference Papers

(Peer-Reviewed)

- Bada B.S., Oyekunle, J.O. and **Olatunde, K.A.** “ Air quality and human health assessment in the vicinity of poultry farm”. *Proceedings of 6th Annual Conference of the Institute of Ecology and Environmental Studies*. June 25 – 27, 2013. pp 61 -68.
- Bada B.S., **Olatunde, K. A.** and Bankole, O. D. “Chemical and physical properties of harvested rainwater from different roofing sheets in Abeokuta, Ogun State”. *Proceedings of Hydrological for Disaster Management, Special Publication of the Nigerian Association of Hydrological Sciences*, October 22 – 26, 2012. pp 172 - 179

(Abstract-Reviewed)

- Olatunde K.A** and Azeez, K.R, “Knowledge and Practices of Pesticides Use among Beans Traders within Abeokuta, Southwest Nigeria”, Proceedings of the 9th Conference on Environmental Health Sciences (CEHS) Ibadan, Nigeria, 23rd – 25th November, 2021
- Olatunde, K.A.**, White, K. and Collins, C., “Analysis of soil carbon using chemometrics: a comparison between mid-infrared (MIR) and visible, near-infrared (VNIR) diffuse reflectance spectroscopy”. Proceedings of the 6th International Symposium on Soil Organic Matter, in Harpenden, UK, September, 3 – 7, 2017

Presentations and Invited Lectures

Paper Presentation,

- “Solid Waste Everywhere!!! Can we effectively manage our Waste?” Presentation at Soapbox Science Lagos 2021. Available at <http://soapboxscience.org/2021/11/02/soapbox-science-lagos-september-2021-event-speaker-topics/>
- “Environmental Pollution: Sustainable Production in Our Community for the Future,” Tedx Talk Funaab, Nigeria. November 8, 2018. Available at https://youtu.be/ad3qZ6pye_s
- “Soil characterization using visible near infrared diffuse reflectance spectroscopy”. SAGES Research Students Conference, University of Reading, United Kingdom. May 11-12, 2017.

Poster Presentation

“Characterization of total extractible petroleum hydrocarbons (ETPH) in soils using visible near infrared diffuse reflectance spectroscopy (VNIR DRS),” SETAC UK student meeting, September 22, 2016.

Professional development Training

Course

- The British Council, May 25 – June 20, 2020
Description: Ideas for a Better World: Leading Change Through Policymaking
- Federal University of Agriculture, Abeokuta, June 17 – 21, 2019
Description: Advanced Digital Appreciation Programme for Tertiary Institutions (ADAPTI) Training
- Israel’s Agency for International Development Cooperation and The Weitz Center for Sustainable, Rehovot, Israel, December 1 – 22, 2018
Description: Training on Green Growth: Policy and economic measures as tools for local and regional sustainable development.
- University of Reading, United Kingdom, February 1, 2015 – June 1, 2016.
Description: Training programme on ‘Preparing to Teach’ courses to improve teaching and research skills
- University of Reading, United Kingdom, March 24, 2015.
Description: IEMA approved Training on Environmental Auditing and Evaluating Behavior Change.

Workshop

- University of Reading, Wokefield Park, Reading, United Kingdom 30 March – 1 April, 2015.
Description: Workshop on Environmental Risk Management and Infrastructure Application.

- International Foundation for Science, Ouidah, Benin. November 8 – 11, 2014
Description: Workshop on Interactive and Collaborative Research
- Federal University of Agriculture Abeokuta. December 3 – 5, 2012.
Description: Workshop on fund sourcing, proposal writing and project Management.

Professional Affiliations

Member, Society of Environmental Toxicology and Chemistry,	2016-Present
Member, Ecological Society of Nigeria	2021 - Present

Community Service

FUNAAB Nursery and Primary School, Nigeria
Volunteer Resource Person, Reading club

Independent and corrupt Practices Commission
National Anti – Corruption Volunteer, 2008

Languages

English: Advanced Reading and Writing
Yoruba: Native speaker, Advanced Reading and Writing

other skills and competences

Teamwork, Communication, Honesty and good work ethics, Collaborative working