

Abraham Olasupo OLADEBEYE [Ph.D]

Ag. HOD, Department of Science Laboratory Technology,
University of Medical Sciences,
P.M.B. 536, Laje Road, Ondo, Nigeria.

Tel: +234-803-3620-279; +234-708-5755-437

e-mail: folabeye@yahoo.com; aooladebeye@unimed.edu.ng



Expertise: Analytical Chemistry, NanoChemistry, Biomaterials, Food Chemistry

Biodata

24/11/1974 Date of Birth
Ibadan Place of Birth
Obokun Local Government Area
Osun State of Origin
Nigerian Nationality
Married Marital Status
Three (3) Number of Children

Institutions

2015 – 2017 Achievers University, Owo, Ondo, Nigeria
2010 – 2014 The Federal University of Technology, Akure, Nigeria
2004 – 2008 The Federal University of Technology, Akure, Nigeria
2001 – 2003 The Federal University of Technology, Akure, Nigeria
1997 – 2000 The Federal Polytechnic, Ado-Ekiti, Nigeria
1994 – 1996 The Federal Polytechnic, Ado-Ekiti, Nigeria

Qualifications

September, 2014 Doctor of Philosophy (**Ph.D**) in **Analytical Chemistry**
May, 2008 Masters of Technology (**M.Tech**) in **Analytical Chemistry**
Distinction (CGPA: 4.85 of 5.00)
September, 2017 Bachelor of Science (**B.Sc**) in **Industrial Chemistry**
First Class Honours (CGPA: 4.94 of 5.00)
June, 2004 Postgraduate Diploma (**PGD**) in **Industrial Chemistry**
Distinction (CGPA: 4.54 of 5.00)
March, 2000 Higher National Diploma (**HND**) in **Applied Chemistry**
Distinction (CGPA: 3.83 of 4.00)
October, 1996 National Diploma (**ND**) in **Science Technology**
Distinction (CGPA: 3.64 of 4.00)

Academic Appointments

University Experience

2020–Date **Senior Lecturer**, Department of Science Laboratory Technology, University of Medical Sciences, Ondo, Nigeria

Taught Courses

CHM 111: General Chemistry I
CHM 112: Practical Chemistry I
CHM 121: General Chemistry II
CHM 122: Practical Chemistry II
CHM 211: Physical Chemistry I
CHM 212: Structure and Bonding Chemistry
CHM 213: Inorganic Chemistry
CHM 214: Experimental Inorganic and Physical Chemistry
CHM 221: Analytical Chemistry
CHM 222: Organic Chemistry
CHM 260: Industrial Training (SIWES)
CHM 311: Physical Chemistry II
CHM 312: Applied Spectroscopy
CHM 315: Carbohydrate Chemistry
CHM 310: Experimental Physical Chemistry
CHM 321: Atomic and Molecular Structure and Symmetry
CHM 326: Environmental Chemistry
CHM 327: Research Methodology
CHM 360: Industrial Training (SIWES)
CHM 415: Coordination Chemistry
CHM 416: Seminar
CHM 422: Quantum Mechanics
CHM 423: Analytical Chemistry II
CHM 426: Industrial Chemical Processes II
CHM 427: Polymer Chemistry II
CHM 499: Research Project
GLT 212: Glass Blowing Technology
GLT 221: Hazards and Safety in the Laboratory
GLT 222: Workshop Laboratory & Practice
GLT 223: Technical Drawing

2017–2020 **Lecturer I**, Department of Chemistry, University of Medical Sciences, Ondo, Nigeria

Taught Courses

CHM 111: General Chemistry I
CHM 112: Practical Chemistry I
CHM 121: General Chemistry II
CHM 122: Practical Chemistry II
CHM 211: Physical Chemistry I
CHM 212: Structure and Bonding Chemistry
CHM 213: Inorganic Chemistry
CHM 214: Experimental Inorganic and Physical Chemistry
CHM 221: Analytical Chemistry
CHM 222: Organic Chemistry
CHM 311: Physical Chemistry II
CHM 312: Applied Spectroscopy
CHM 315: Carbohydrate Chemistry
CHM 310: Experimental Physical Chemistry
CHM 321: Atomic and Molecular Structure and Symmetry
CHM 326: Environmental Chemistry
CHM 327: Research Methodology
CHM 415: Coordination Chemistry
CHM 416: Seminar
CHM 417: Industrial Training (SIWES)
CHM 421: Research Project
CHM 422: Quantum Mechanics
CHM 499: Research Project

Outside University Experience

2005 – 2017 **Higher Instructor/Senior Instructor/Principal Instructor II/Principal Instructor I**, Department of Science Laboratory Technology, Auchu Polytechnic, Auchu, Nigeria

Courses Taught:

GLT 111: General Laboratory Techniques
BCH 121: Organic and Inorganic Chemistry
PLT 224: Polymer Analysis and Quality Control
STC 311: Inorganic Chemistry
GLT 311: General Laboratory Techniques (Chemistry aspect)
PLT 311: Physical Chemistry
PLT 323: Polymer Analysis, Characterization and Quality Control

STC 404: Thermodynamics, Electrochemistry and Photochemistry

STC 406: Natural Products Chemistry and Stereochemistry

2003-2005 Becky Parker College, Akure, Nigeria

Tutor of Chemistry, Mathematics and Integrated Science/Class Teacher

2000-2001 National Youth Service Corps (NYSC): Ibereko High School, Badagry, Lagos State

Tutor of Chemistry, Mathematics and Integrated Science/Class Teacher

Honours

2018 **Chancellor's Award: Best Graduating Student in B.Sc Programmes**, Achievers University, Owo

2018 **College Award: Best Graduating Student in B.Sc Programmes**, College of Natural and Applied Sciences, Achievers University, Owo

2018 **Departmental Award: Best Graduating Student in B.Sc Programmes**, Department of Chemical Sciences, Achievers University, Owo

2015 **Institutional Award: Second Position in Institutional Award Competition**, Polymer Institute of Nigeria (PIN) in conjunction with RMRDC

2000 **Rector's Award: Overall Best Student in HND Exams**, The Federal Polytechnic, Ado-Ekiti

2000 **School (Faculty) Award: Overall Best Student in HND Exams**, School of Science and Computer Technology, The Federal Polytechnic, Ado-Ekiti

2000 **Departmental Award: Overall Best Student in HND Exams**, Science Technology Department, The Federal Polytechnic, Ado-Ekiti

1996 **Departmental Award: Overall Best Student in ND Exams**, Science Technology Department, The Federal Polytechnic, Ado-Ekiti

Fellowship

2011 Universiti Sains Malaysia (USM), Penang, Malaysia (*Non-Exchange Programme*)

Professional Affiliations

1. Associate, Nigerian Institute of Science Laboratory Technology (NISLT)
2. Member, Chemical Society of Nigeria (CSN)
3. Member, Polymer Institute of Nigeria (PIN)

Administrative Appointments

- 2020–Date **Head**, Department of Science Laboratory Technology, University of Medical Sciences. Ondo
- 2019–2020 **SIWES Coordinator**, Department of Chemistry, University of Medical Sciences, Ondo
- 2019–Date **Member**, Research Seminar Committee, Faculty of Science, University of Medical Sciences, Ondo
- 2017–Date **Academic Adviser**, University of Medical Sciences, Ondo
- 2017–Date **Member**, Research and Development Committee, Faculty of Science, University of Medical Sciences, Ondo
- 2017–Date **Results' Officer**, Department of Chemistry, University of Medical Sciences, Ondo
- 2015–2017 **Coordinator**, CLN/FSD (Community Learning Network/Flexible Skills Development), Auchi Polytechnic, Auchi
- 2011–2017 **Secretary**, INVEST Africa (formerly, Flexible Skills Development), Auchi Polytechnic Group
- 2011 **Secretary**, Curriculum Drafting Committee, Flexible Skills Development, Auchi Polytechnic, Auchi
- 2008 – 2010 **Departmental Examination Officer**, Auchi Polytechnic, Auchi
- 2006 – 2008 **Assistant Departmental Examination Officer**, Auchi Polytechnic, Auchi

Peer-Reviewed Publications

1. **Oladebeye, A.O.**, Oladebeye, D.H. and Adeosun, B.F. (2006). Thermodynamic evaluation of natural rubber reinforced with agricultural wastes. *CITADEL, Journal Series for Professionals, Center for Environment and Rural Resources Development Network, Akure, Nigeria*, 2(4):28-32.
2. Oladebeye, D.H. and **Oladebeye, A.O.** (2006). Effect of agricultural wastes on thermal conductivity of natural rubber composites. *Nigerian Journal of Mechanical Engineering, University of Ado-Ekiti, Nigeria*, 4(1):76-83.
3. **Oladebeye A.O.**, Oshodi A.A. and Oladebeye A.A. (2006). Comparative studies on the pasting properties of starches of corms and cormels of two cocoyam (*Colocasia esculenta*) cultivars. *ChemTech Journal*, 2:260-264.
4. Oladebeye, A.A., Amoo, I.A. and **Oladebeye, A.O.** (2008). Physicochemical properties of degermed flours of rice (*Oryza sativa*), Millet (*Eleusine coracana*) and Wheat (*Triticum aestivum*). Proceedings of the 31st International Conference of Chemical Society of Nigeria. (*A Supplement of Journal of Chemical Society of Nigeria*). 46-48.
5. Ohikhena, S.O. and **Oladebeye, A.O.** (2008). Use of rubber seed oil (RSO) in the production of shoe polish. *Journal of Applied Science and Technology*, 1(1):14-17.
6. Ohikhena, S.O., Otoikhian, S.K. and **Oladebeye, A.O.** (2008). Production of factice from

- cherry seed oil. *Journal of Applied Science and Technology*, 1(2):23-25
7. **Oladebeye, A.O.**, Oshodi, A.A. and Oladebeye, A.A. (2009). Physicochemical Properties of starches of sweet potato (*Ipomea batata*) and red cocoyam (*Colocasia esculenta*) cormels. *Pakistan Journal of Nutrition*, 8(4):313-315.
 8. **Oladebeye, A.O.**, Oshodi, A.A., Imanah, J.E. and Oladebeye, A.A. (2010). Physicochemical Properties and Pasting Behaviours of Selected Tropical Tubers. *Nigerian Journal of Chemical Research*, 15:35-42.
 9. Oladebeye, A.A., Amoo, I.A. and **Oladebeye, A.O.** (2011). Physicochemical Properties of Degermed Flours of Rice (*Oryza Sativa*), Millet (*Eleusine Coracana*) and Wheat (*Triticum Aestivum*). *International Journal of Biological Science*, 3(4):40-42.
 10. Momoh, F.P., Igbonazobi, L.C., Umoh, J.R. and **Oladebeye, A.O.** (2011). Cooling Trends as Parameters for the Quality Assessment Control in Thermoplastics. *Journal of Applied Science and Technology*, 4(1):76-82.
 11. Erhabor, C.U. and **Oladebeye, A.O.** (2011). Studies of NR/NBR Blends. *ChemTech Journal*, 7(1):253-257.
 12. **Oladebeye, A.O.**, Oshodi A.A., Oladebeye, A.A. and Amoo, I.A. (2011). Pasting properties of heat-moisture treated starches of white and yellow yam (*Dioscorae species*) cultivars. *Nature and Science*, 9(1):29-33.
 13. Oladebeye, A.A., **Oladebeye, A.O.**, Olukoya, F. and Dania, M.I. (2012). Comparative Studies on the production and pasting properties of custard flour from cornflour and degermed cornflour. Proceedings of the 5th Annual National Conference of SASTCON, 22-27.
 14. Oladebeye, A.A., Amoo, A.I. and **Oladebeye, A.O.** (2012). Comparative Studies on the Physicochemical Properties of Degermed Flours of White and Yellow Maize (*Zea mays*). *Pakistan Journal of Scientific and Industrial Research*, 55(3), 172-174.
 15. **Oladebeye, A.O.**, Imanah, J.E., Bakare, O.I. and Oladebeye, A.A. (2012). Lima bean starch-hydrogels. *Nigerian Journal of Chemical Research*, 17:39-49.
 16. **Oladebeye, A.O.**, Oshodi, A.A., Amoo, I.A. and Karim, A.A. (2013). Morphology, x-ray diffraction and solubility of underutilized legume starch nanocrystals. *International Journal of Science and Research*, 2(3): 497-503.
 17. **Oladebeye, A.O.**, Oshodi, A.A., Amoo, I.A. and Karim, A.A. (2013). Functional, thermal and molecular behaviours of ozone-oxidized cocoyam and yam starches. *Food Chemistry*, 141:1416-1423.
 18. **Oladebeye, A.O.**, Oshodi, A.A., Amoo, I.A. and Karim, A.A. (2013). Hydroxypropyl derivatives of legume starches: Functional, rheological and thermal properties. *Starch/Stärke*, 65:762-772.
 19. **Oladebeye, A.O.**, Imanah, J.E., Eboreime, A.E. and Oladebeye, A.A. (2015). Effect of pregelatinization on selected functional, molecular and pasting properties of legume starches. *Nigerian Journal of Polymer Science and Technology*, 10:46-53.

20. **Oladebeye, A.O.**, Oshodi, A.A., Amoo, I.A. and Karim, A.A. (2015). Selective comparison of native and nanocrystals of white and yellow yam starches. *Walailak Journal of Science and Technology*, 12(12): 1137–1145.
21. Oladebeye, A.A., **Oladebeye, A.O.**, Dania, M.I. and Olukoya, F.O. (2018). Production and physicochemical compositions of spiced red sorghum (*Sorghum bicolor* L.) pastas, *Journal of Arts, Management, Science and Technology/TETFUND*, 5(2):13-22.
22. **Oladebeye, A.O.**, Onoerhi, F.F., Ogedobor, M., Ojeiho, O.G. and Oladebeye, A.A. (2018). Characterization of acetylated pulverized jack bean (*Canavalia ensiformis*) seed coats, *Journal of Arts, Management, Science and Technology/TETFUND*, 5(3):14-24.
23. **Oladebeye, A.O.**, Oshodi, A.A., Amoo, I.A. and Karim, A.A. (2018). Gaseous ozonation of pigeon pea, lima bean and jack bean starches: Functional, Thermal and Molecular Properties. *Starch/Stärke*, 1700367: 1-11, doi.org/10.1002/star.201700367.
24. **Oladebeye, A.O.**, Oshodi, A.A., Amoo, I.A., Karim, A.A. and Oladebeye, A.A. (2018). Hydroxypropyl and nanocrystal derivatives of white (*Colocasia antiquorum*) and red (*Colocasia esculenta*) cocoyam starches: functional, pasting, thermal and molecular properties, *Journal of Food Measurement and Characterization*, 1-10, doi.org/10.1007/s11694-018-9914-1
25. **Oladebeye, A.O.**, Oware, M.O., Odia, F. and Oladebeye, A.A. (2018). Morphology, FTIR and x-ray patterns of pulverized mercerized jack bean (*Canavalia ensiformis*) seed coats, *Leonardo Journal of Sciences*, 33:1-12
26. **Oladebeye, A.O.** and Oladebeye, A.A. (2019). Flow and thermal behaviours of pregelatinized legume starches, *Journal of ChemResearch*, 1(2):33-44.
27. **Oladebeye, A.O.**, Okunade, M.B. and Oladebeye, A.A. (2020). Elemental Compositions of Tropical Vegetables and Soils in Edo State, Nigeria Using X-ray Fluorescence Technique. *Journal of Scientific Research and Reports*, 26(2): 27-37.
28. **Oladebeye, A.O.** (2020). Potentials of starch nanoparticles jack bean (*Canavalia ensiformis*) coprecipitated with iron (II, III) oxide. *International Research Journal of Pure and Applied Chemistry*, 21(3): 17-24.
29. Ashogbon, A.O., Akintayo, E.T., Oladebeye, A.O., Oluwafemi, A.D., Akinsola, A.F. and Imanah, O.E. (2021). Developments in the isolation, composition, and physicochemical properties of legume starches. *Critical Reviews in Food Science and Nutrition*, DOI: 10.1080/10408398.2020.1791048

Other Publications

Books

1. Imanah, J.E. and **Oladebeye, A.O.** (2015). Fundamentals of General and Physical Chemistry, 2nd Edition, pp 1-324
2. Jeje, A.O., Olugbemide, A.D., Aigbefo, V. and **Oladebeye, A.O.** (2015). General Principles of Chemistry, 1st Edition, pp 1-223

3. Ugbesia, S.O., Ekebafé, L.O. and **Oladebeye, A.O.** (2015). Understanding Basic General and Physical chemistry, pp 1-208
4. Idiaghe, J.A., Ugbesia, S.O., **Oladebeye, A.O.**, Ekebafé, L.O., Momoh, F.P., Ayo, M.D., Eruangha, G.O., Imasuen, A.O., Chukwu, M.N., Eboreime, A.E. and Igbonazobi, L.C. (2013). Polymer Analysis and Characterization, 1st Edition, pp 1-262
5. **Oladebeye, A.O.** (2006). Basics of Industrial Management, 1st Edition, pp 1-88

Dissertation/Thesis

1. Assessment of heavy metals in Nigerian vegetables and soils in Owo and Edo Axes using X-ray Fluorescence (XRF) technique (**B.Sc Thesis, 2017**)
2. Physicochemical characterization of native, modified and nano starches of selected tubers and seeds (**Ph.D Dissertation, 2014**)
3. Physicochemical properties of the starches of selected tropical tubers (**M.Tech Thesis, 2007**)
4. Proximate compositions and physicochemical properties of the starches of the corms and cormels of red and white varieties of cocoyam (*Colocasia esculenta*) and cassava (*Manihot esculenta*) (**PGD Thesis, 2003**)
5. Effect of agricultural wastes on the thermodynamic parameters of reinforced natural rubber (*nR*) composites (**HND Thesis, 2000**)
6. Mechanical properties of bleached wood-fibre reinforced natural rubber (*nR*) composites (**ND Thesis, 1996**)

Current Research

- Dual acetylated and oxidized jack bean starch.
- Synthesis and characterization of magnetic nanosorbents from jack bean starch.

Conferences

- 2022 UNIMED Research Day, University of Medical Sciences, Ondo, Nigeria
- 2021 IUPAC-CHEMRAWN XXII E-waste in Africa and 44th Annual International Conference of The Chemical Society of Nigeria (CSN)
- 2020 24th Annual Green Chemistry and Engineering Virtual Conference, American Chemical Society
- 2018 AAUA-Humboldt Kolleg Conference: The Role of Commercialization of University-Based Research Results for National Development
- 2016 27th Annual Technical Conference of Polymer Institute of Nigeria on Polymer: Unlocking Nigeria's Economic Potentials through Polymer Science and Technology.
- 2015 26th Annual Technical Conference of Polymer Institute of Nigeria on Polymers: Man's Complement to Nature.
- 2014 7th Annual ChemTech Conference on Chemistry in the Developmental

Transformation of Resources.

- 2012 5th Annual National Conference on Investment in Science and Technology Infrastructure for Accelerated National Development.
- 2011 5th Annual ChemTech Conference on Sustainable Green Chemistry and Rubber Industry.
- 2010 21st Annual Technical Conference/AGM of Polymer Institute of Nigeria on Polymer: A Veritable Tool in the Actualization and Sustainability of Vision 2020.
- 2008 31st International Conference of Chemical Society of Nigeria on Strategic Re-Positioning of Chemistry for National Development,
- 2007 43rd Annual Conference of Science Association of Nigeria (SAN) on Science and Technology: Research Focus in the 21st Century.

Workshop/Short Courses

- 2021 Compulsory Academic Staff Training on Pedagogy, University of Medical Sciences, Ondo
- 2021 Advanced Digital Appreciation Programme for Tertiary Institutions Statistical Package for Social Sciences
- 2018 Advanced Digital Appreciation Programme for Tertiary Institutions Statistical Package for Social Sciences
- 2017 Advanced Digital Appreciation Programme for Tertiary Institutions Statistical Package for Social Sciences
- 2017 Workshop on Pedagogy and Integrated Medical and Dental Curriculum organized by University of Medical Sciences, Ondo
- 2015 eLearning Workshop on Blended Learning Using Moodle organized by Auchu Polytechnic, Auchu in collaboration with Commonwealth of Learning (COL)
- 2013 Flexible Skills Development (FSD) Workshop organized by Commonwealth of Learning (COL) in collaboration with Auchu Polytechnic, Auchu
- 2012 Flexible Skills Development (FSD) Workshop organized by Commonwealth of Learning (COL) in collaboration with Auchu Polytechnic, Auchu
- 2011 Flexible Skills Development (FSD) Workshop organized by Commonwealth of Learning (COL) in collaboration with Auchu Polytechnic, Auchu
- 2007 CEDAP, Training-the-Trainer Workshop
- 2006 UNESCO-Nigeria TVE Project
- 2006 Centre for Entrepreneurship Auchu Polytechnic (CEDAP), Sensitization Workshop

Hobbies

Watching movies, footballing

Referees

1. **Professor I.A. Amoo**
Chemistry Department,
The Federal University of Technology
Akure, Nigeria
adisamoo@yahoo.co.uk
+234-803-4016-068
2. **Professor N.A. Oladoja**
Department of Chemistry,
Adekunle Ajasin University
Akungba-Akoko, Nigeria
bioladoja@yahoo.com
+234-805-5438-642

3. **Dr. O.I. Bakare**
Rubber Research Institute of Nigeria
Benin-City, Iyanomo, Nigeria
iobakare@yahoo.com
+234-803-3931-599



Signature