
AFOLABI, T. Adeniyi

Degree: B.Sc., M.Sc., Ph.D.

Email: niyiafo@yahoo.com

Telephone: +234-8035718657

Fax: 234-39-243045

Department: Chemistry

Academic Rank: Lecturer I



Research interest: Synthesis and characterization of biopolymers and their industrial utilization. Environmental impact study and control.

DETAILED RESUME

ACADEMIC DEGREES WITH DATE

- | | | |
|---------------------------------|---|------|
| ➤ Ph. D. (Industrial Chemistry) | – | 2009 |
| ➤ M. Sc. (Industrial Chemistry) | – | 2001 |
| ➤ B. Sc. (Chemical Science) | – | 1997 |
-
-

INSTITUTIONS ATTENDED WITH DATE

- | | | |
|----------------------------------------------------------|---|-------------|
| ✓ University of Ibadan, Ibadan, Nigeria | – | 2001- 2009 |
| ✓ University of Ibadan, Ibadan, Nigeria | – | 1999 - 2001 |
| ✓ University of Agriculture, Abeokuta, Abeokuta, Nigeria | – | 1989 - 1997 |
-
-

MEMBERSHIP OF PROFESSIONAL BODIES

- Member, Science Association of Nigeria, (2001 to date).
 - Member, Chemical Society of Nigeria, (2001 to date).
 - Member, Institute of Chartered Chemist, Nigeria, (2005 to date).
 - Member, American Chemical Society (2003 to date).
-
-

PRIZES, HONOURS, NATIONAL AND INTERNATIONAL RECOGNITIONS.

- **GRANTEE:** International Foundation for Science, Stockholm, Sweden (2008).
 - **FELLOWSHIP:** Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy (Young collaborator, July – October, 2003).
-
-

COURSES TAUGHT

Introductory Organic Chemistry, Polymer Chemistry, Colour Chemistry, Industrial Chemical Process, Petrochemistry, Basic Principle of Chemical Processes, Physical Chemistry, Analytical Chemistry, Special Topics in Industrial Chemistry, and Environmental Chemistry.

RESEARCH CONDUCTED

- Isolation of starches from selected Nigerian underutilized starch-containing materials.
- Chemical and physical modifications of the starches.
- Selected industrial uses of the starches e.g. for:
 - Biodegradable plastics
 - Pharmaceutical uses
 - Adhesives
 - Foods.

PUBLICATIONS

- ✓ Olu-Owolabi B.I., **Afolabi T.A.**, & Adebowale K.O. (2009): Pasting, thermal, hydration and functional properties of annealed and heat-moisture treated starch of sword bean (*Canavalia gladiata*). *International Journal of Food Properties* (in print).
<http://www.tandf.co.uk/journals/titles/10942912.asp>
- ✓ Ogundiran O.O. and **Afolabi T.A.** (2008): Assessment of the physicochemical parameters and heavy metals' toxicity of leachates from municipal solid waste open dumpsite. *International Journal of Environmental Science & Tech.*, 5 (2), 243-25.
<http://www.ceers.org/ijest/subscription/ftaccess.asp>
- ✓ Adebowale K.O., **Afolabi T.A.**, & Olu-Owolabi B. I. (2006): Functional, physicochemical, and retrogradation properties of sword bean (*Canavalia gladiata*) acetylated and oxidized starches. *Carbohydrate Polymers*, 65, 93–101.
www.elsevier.com/locate/carbpol
- ✓ Adebowale, K. O., **Afolabi T.A.**, and Olu-Owolabi B.I. (2005): Hydrothermal treatment of finger millet (*Eleusine coracana*) starch. *Food Hydrocolloids*, 19, 974-983.
www.elsevier.com/locate/foodhyd
- ✓ Lawal O.S., **Afolabi T.A.**, Adebowale K.O., Ogunsanwo B.M., & Bankole S.A. (2005); Effects of selected hofmeister anions on functional properties of protein isolate prepared from lablab seeds (*Lablab purpurus*). *Journal of the Science of Food & Agriculture*, 85, 2655-2659. <http://www3.interscience.wiley.com/journal/112134432/issue>
- ✓ Adebowale K. O., **Afolabi T.A.**, and Lawal O. S. (2002): Isolation, chemical modification, and physicochemical characterization of bambara groundnut (*Voandzeia subterranean*) starch and flour. *Food Chemistry*, 78, 305 - 311.
www.elsevier.com/locate/foodchem

Conference Papers

- **Afolabi T.A.**, Adebowale K.O., & Olu-Owolabi B.I. (2004): The proximate Composition and Mineral content of Common Millet (*Pennisetum milliaceum*) flour. *Science Association of Nigeria (SAN) 40th Annual Conference Proceeding, University of Ibadan, Nigeria*, 87.
 - Ogundiran O.O., **Afolabi T.A.**, & Agunbiade F.O. (2006): Evaluation of the Physicochemical Characteristics and Heavy Metals' Toxicity of Leachates from Olusosun Landfill, Nigeria. *Science Association of Nigeria (SAN) 42nd Annual National Conference Proceeding, Tai Solarin University of Education, Ijebu-Ode, Nigeria*.
-
-