

2022 PROMOTION EXERCISE
POSITION SOUGHT: PROFESSOR
CURRICULUM VITAE

- I (a) Name: Folashade Olatunbosun Oyedeji
 (b) Date of Birth: 17 February 1961
 (c) Department: Chemistry
 (d) Faculty: Science
- II (a) First Academic Appointment: Assistant Lecturer (15 January 1997)
 (b) Present Post (with date): Reader (1 October 2019)
 (c) Date of Last Promotion: 1 October 2019
 (d) Date Last Considered (in cases where promotion was not through): Not Applicable
- III University Education (with dates)
 (a) University of Ibadan, Ibadan 1979 - 1983
 (b) University of Ilorin, Ilorin 1990 - 1992
 (c) University of Ibadan, Ibadan 1993 - 1995
 (d) University of Ibadan, Ibadan 1995 - 2003
- IV Academic Qualification (with dates and granting bodies)
 (a) B.Sc. (Hons) Chemistry, University of Ibadan, Ibadan 1983
 (b) Post Graduate Diploma in Education, University of Ilorin, Ilorin 1994
 (c) M.Sc. Industrial Chemistry, University of Ibadan, Ibadan 1995
 (d) Ph.D. Industrial Chemistry, University of Ibadan, Ibadan 2003
- V Professional Qualification and Diplomas (with dates)
 Postgraduate Diploma in Education, University of Ilorin, Ilorin 1994
 Certified Teacher, Teachers Registration Council of Nigeria 2007
- VI Scholarships, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate work only
 Kwara State Bursary Award (Undergraduate) 1979 – 1983
- VII Honours, Distinctions and Membership of Learned Societies
 (a) American Biographical Institute (ABI)
 (b) Professional Women Advisory Board of ABI
 (c) Chemical Society of Nigeria
 (d) Science Association of Nigeria
 (e) Science Teachers Association of Nigeria
 (f) Cosmetic Association of Nigeria
 (g) Institute of Chartered Chemists of Nigeria
 (h) Association of Oil and Fat Chemists of America
 (i) Chartered Institute of Environmental and Public Health Management of Nigeria

- (j) Advanced Cosmetic Formulators Club
- (k) Institute of Traditional, Alternative and Complimentary Medicine Pakistan
- (l) Organization for Women in Science for the Developing World

VIII Details of Teaching /Work Experience

(a) Work Experience

- (i) Science Teacher, Ile-Apa Grammar School,
Ile-Apa, Ilorin 1985-1986
- (ii) Field Supervisor, Dietary Management of Diarrhoea Project,
Community Health Department, University of Ilorin
Teaching Hospital, Ilorin 1986-1987
- (iii) Federal Ministry of Education
 - (1) Science Teacher, Queen Elizabeth II Secondary School,
Ilorin 1987-1990
 - (2) Science Master, Federal Government Girls Secondary
School, New Bussa 1990-1992
 - (3) Data Officer, Federal Ministry of Education
 - (4) Headquarters, Bonny Camp, Victoria Island, Lagos 1993-1997
- (iv) Part-time lecturer, LTTS, University of Ibadan, Ibadan 1998-1998
- (v) Assistant lecturer, University of Ibadan, Ibadan 1997-1999
- (vi) Lecturer II, University of Ibadan, Ibadan 1999-2005
- (vii) Lecturer I, University of Ibadan, Ibadan 2005-2009
- (viii) Senior Lecturer, University of Ibadan 2009-2019
- (ix) Reader, University of Ibadan 2019-2022

(b) Teaching Experience

I have participated in the teaching of the following courses between 1997 and 2022

Undergraduate Courses:

Courses	Description	Periods
CHE195	Practical Chemistry I	1997 - 2015 (taught with 9 other lecturers)
ICH 226	Chemical Raw Materials I	2019 - date (taught with 2 other lecturers)
ICH 227	Chemical Raw Materials I	1997 - 2018 (taught with 2 other lecturers)
ICH 247	Large Scale Chemistry	2002 - 2022 (taught with 2 other lecturers)
ICH 267	Chemical Raw Materials II	1997 - 2010(taught with 2 other lecturers)
CHE 281	Research Methods & Techniques	2019 - 2021(taught with 3 other lecturers)
ICH 287	Introduction to Catalysis	2019 - date (taught with 1 other lecturer)
ICH 299	Industrial Attachment I	2019 - date (taught with 44 other lecturers)
ICH 326	Heavy Inorganic Chemicals & Utilization of Wastes	2019 - date (taught with 2 other lecturers)
ICH 327	Heavy Inorganic Chemicals & Utilization of Wastes	1997 - 2018(taught with 2 other lecturers)
ICH 347	Unit Operations I	1999 - 2002 (taught with 2 other lecturers)

ICH 349	Industrial Chemistry Practical II	2019 - date (taught with 1 other lecturer)
ICH 367	Petrochemicals & Utilization of Wastes	1997-2018 (taught with 3 other lecturers)
ICH 397	Industrial Attachment	1997- date (taught with 43 other lecturers)
ICH 399	Industrial Attachment II	2019- date (taught with 44other lecturers)
CHE 481	Seminar Topics	1997-date (taught with 44 other lecturers)
ICH 467	Process Chemistry	1997- date (taught with 3 other lecturers)
ICH 481	Special Topics in Industrial Chemistry	1997- date (taught with 3 other lecturers)
ICH 495	Research Project	1997- date (taught alone)

Postgraduate courses:

ICH 717	Advanced Polymer Chemistry	2019 - date (taught with 3 other lecturers)
ICH 737	Chemistry of Materials	2019 - date (taught with 3 other lecturers)
ICH 767	Oil Refining	2004 - date (taught with 4 other lecturers)
ICH 777	Process Synthesis	2014 - date (taught with 3 other lecturers)
ECH 783	Environmental Monitoring and Impact Assessment	2007 - 2010 (taught with 5 other lecturers)
CHE 796	Research Project	2004 - date (taught alone)
CHE 801	Research Methodology	2019 - date (taught with 4 other lecturers)

Research Supervision

Completed

B.Sc. Project	103
M.Sc.	61
Ph. D	01

In progress

B.Sc.	07
M.Sc	04
Ph.D	05

(c) Administration Experience

Departmental Seminar Officer	1997 - 2003
Member, Departmental Registration committee	1997 - date
Departmental Representative on Faculty of Education Board	1997 - 2003
Member 50 th , 60 th and 70th Departmental Anniversary Committee	1998, 2008, 2018
Faculty of Science Representative on Faculty of Agriculture Board	1999 - 2001
Member, Departmental Staff Welfare Committee	1999 - date
Member, Departmental Finance Committee	2000 – 2021

Faculty of Science Representative on Faculty of Education Board	2001 - 2003
Departmental Representative on Faculty of Veterinary Medicine Board	2004 - 2006
Faculty of Science Representative on Faculty of Technology Board	2004 - 2006
Departmental Library Officer	2004 - 2010
Departmental Committee on Purchase of Books	2004 - 2010
Departmental Timetable Officer	2004 - 2010
Member, Faculty of Science Committee on Timetable	2004 - 2010
Member, Departmental Library Committee	2004 - 2010
Staff Adviser, Kogi State Students Association, University of Ibadan	2004 - 2010
Matron/Staff Adviser Bowels of Mercy, University of Ibadan	2005 - date
Departmental Coordinator, CHE 195 Practical	2006 - 2010
Assistant Warden, Queen Elizabeth II Hall, University of Ibadan	2006 - 2010
Member Committee of Wardens, University of Ibadan	2006 – 2010
Member, Departmental A&P Part I	2009 – date
Departmental Students Liaison Officer	2012 - 2014
Chairman, Departmental Welfare Committee	2012 - date
Member, Faculty Board on Staff Welfare	2014 - 2016
Faculty of Science Representative on Board of IMRAT	2018 - date
Member, Faculty Finance Committee	2018 - 2021
Member, Departmental NUC Accreditation Committee	2019
Member, Departmental Committee on M.Sc. Matters	2019-date
Member, Departmental Staff/Student Advisory Committee	2019-date
Member, Faculty A&P Part 1	2021 - date

IX Research

(a) Completed

- (1) Extraction and characterization of stem/leaf exudates of *Anacardium occidentale*, *Khaya senegalensis*, *Khaya grandifolia*, *Musa paradisiaca* and *Aloe vera Barbadensis* and determination of their uses in the cosmetics industry.
- (2) Evaluation of Sun Protection Factor (SPF) and determination of parabens in some cosmetic products.
- (3) Determination of fruit coat and seed oil characteristics and the emulsion forming abilities of certain citrus varieties.
- (4) A survey of female students' skin products use-patterns and analysis of some skin creams.
- (5) Evaluation of antifungal effectiveness of 1-(2,4-Dinitrophenyl)-2-(2,2,2- Triphenyl-1-Phenyl Ethylidene) Hydrazine on *Microsporum aoudinni*
- (6) Determination of burns and wound healing effect of leaves of *Datura metel* (gegemu)

(b) In Progress

- (1) Comparative Evaluation of the antifungal effects of some herbal plants and a new hydrazone. This study started in January 2020. Plant extraction phytochemical evaluation, antioxidant evaluation and animal studies for antifungal effectiveness of the hydrazone has been completed while that for the herbal plant is in progress. This study is likely to be completed in April 2023.
- (2) Comparative hair regrowth effects of paraffin oil and some herbal plants. The study started March 2019. The phytochemical and physicochemical evaluation of the plants and functional group assessments of the plants have been completed. The animal studies have also been completed and statistical evaluation of results are ongoing. The project is likely to be completed by March 2023.
- (3) Age renews effects of nano multi-emulsions from *Datura metel* and Virgin coconut oil. The research work started in January 2021. The extraction, physicochemical, phytochemical, and instrumental analysis of the herbal extract and production of the nano emulsion has been completed. The chemical and instrumental analysis of the nano emulsion is ongoing, while the skin studies are yet to be commenced. Project is likely to be completed by January 2024.
- (4) New skin and hair conditioning materials from chitin and chitosan from waste shells of different mollusks. This project in the early stages. Experiments are ongoing to determine correct conditions and concentrations of acid and bases to use to obtain maximum yields of chitin and chitosan. Several experimental nano emulsions have been prepared and analyzed using chitin and chitosan prepared in each stage. The project may be completed by December 2025.

(c) Dissertation and Thesis

- (1) Oyedeji, F.O. (1995). Analysis of Some Pollutants in Sea Water (MSc. Dissertation, University of Ibadan, Ibadan, 166pp).
- (2) Oyedeji, F.O. (2003). Production, Physicochemical and Stability Studies of Cosmetic Emulsion from Some Natural Lipids (PhD. Thesis, University of Ibadan, Ibadan, 119pp)

X Publications

(a) Books already Published Nil

(b) Chapters in Books already published Nil

(c) Articles that have Appeared in Refereed Conference Proceedings

1. **Oyedeji, F. O.**, Oladosu, O. O., Okujagu, T. F., Fawehinmi, A. B., Etatuvie, S. O. and Lawal, H. O. (2011) Evaluation of Black Soap and Black Soap Admixed with Kaolin for Microbial Activity. In Odebunmi, E. O. Olatunji, G. A., Obaleye, J. A., Adekola, F. A., Ogunniyi, D. S., Olorundare, A. S., Omosewo, E. O., Eke, U. B., Dosunmu, O. O., Eletta, O. O. A., Abdusalam, N., Nwosu, F. O., Oluwaniyi, O. O., Adebayo, G. B., Abdul Raheem, A. M. O., Ameen, O. M., Usman, L. A., Adegoke, H., Hamid, A. A. and Bamgboye, M. D. (Eds.) *Chemistry and the Millennium Development Goals: Proceedings of the 34th Annual International Conference, Workshops & Exhibition of the Chemical Society of Nigeria*, 19 - 23 September, 2011. University of Ilorin, Ilorin. Chemical Society of Nigeria. ORG -008 – 010pp. (Nigeria) (Contribution: 30%)
- 2*. **Oyedeji, F. O.** and Momoh, J. O. (2021) Potential Human Hair and Sheep Wool Dyeing Characteristics of Hair Colour Formulations Prepared from Four Vegetable Dyes. In Longe, O. B., Danquah, P., Adekunle, O., and Oshinubi, K. (Eds.) *Working the Angles: Adapting Multidisciplinary Research to Address Human Capital and Development Challenges in Africa. Proceedings of the 28th SMART-ISTEMS International Multidisciplinary Conference*. 24th -26th October 2021. American International University West Africa. The Gambia. Society for Multidisciplinary & Advanced Research Techniques (SMART). Vol. 2:143-156. (Contribution:70%) (The Gambia)

(d) Patents and Copyrights Nil

(e) Articles that have already appeared in Learned Journals

3. **Oyedeji, F. O.** and Oderinde, R. A. (2004) Stability of Cosmetic Emulsions from Watermelon and Paraffin Oils. *International Journal of Chemistry* Vol. 14. No. 3: 149 - 154. (India) (Contribution: 80%)
4. **Oyedeji, F. O.** and Oderinde, R. A. (2005) Analysis of Samples of Cosmetic Emulsions from a Market in Ibadan, Nigeria. *International Journal of Chemistry* Vol. 15. No 1: 35 - 41. (India) (Contribution: 80%)
5. **Oyedeji, F. O.** and Oderinde, R. A. (2005) Determination of Best Base for Use in Skin Care Formulation. *International Journal of Chemistry* Vol. 15. No 3. 211 - 214. (India) (Contribution: 80%)
6. **Oyedeji, F. O.** and Oderinde, R. A. (2006) Characterization of Isopropanol Extracted Vegetable Oils. *Journal of Applied Sciences* Vol. 6. No. 11: 2510 -2513 (Pakistan) (Contribution:70%)
7. **Oyedeji, F. O.**, Adeleke, B. B. and Akintola, C. B. (2008) Determination of Properties of Seed and Seed Oils of *Cola milleni* for Possible Industrial Uses. *International Journal of Chemistry* Vol. 18. No. 1: 49 - 55 (India) (Contribution: 70%)
8. Fapojuwo, O.O., Popoola, O.O., Ologunde, M. O., Korede, A. O., Adewusi, S. R. and Oyedeji, F.O. (2008) Effect of Handling and Cooking on the DHA and other Fatty Acids

- Present in Atlantic Mackerel (Titus Fish) *Annals of Science and Biotechnology*, Vol. 1. No. 2: 26-31. (United States of America) (Contribution:20%)
9. Fapojuwo, O. O., Adebajo, I. A., Akinwande, B. A. and **Oyedeji, F. O.** (2009) Survey of Polyunsaturated Fatty Acids and Fats in Two Tilapia Species for Selecting Health benefiting Species. *Annals of Science and Biotechnology* Vol. 2. No.1: 15 - 20. (United States of America) (Contribution: 30%)
 10. **Oyedeji, F. O.** and Okeke, I. E. (2010) Comparative Analysis of Moisturising Creams from Vegetable Oils and Paraffin Oil. *Research Journal of Applied Sciences* Vol. 5. No. 3: 157 - 160. (Pakistan) (Contribution: 80%).
 11. **Oyedeji, F. O.**, Adeleke, B. B. and Akintola, C. B. (2011) Physicochemical and Fatty Acid Profile Analysis of *Polyalthia longifolia* Seed Oil. *Trends in Applied Science Research* Vol. 6. No. 6:614 - 621 (United States of America) (Contribution: 70%)
 12. **Oyedeji, F. O.**, Hassan, G. O. and Adeleke, B. B. (2011) Hydroquinone and Heavy Metals in Cosmetics Marketed in Nigeria. *Trends in Applied Science Research* Vol. 6. No. 7: 622 - 639. (United States of America) (Contribution: 70%)
 13. Fapojuwo, O. O., Akinwande, B. A., Akintoye, R. O. and **Oyedeji, F. O.** (2011) Trans Fatty Acids and Proximate Composition of Some Commercial Full Cream Powdered Milk in Nigeria. *Science Focus* Vol. 16. No. 2: 113 - 118. (Nigeria) (Contribution: 30%)
 14. **Oyedeji, F. O.** and Bankole - Ojo, O. S. (2012) Quantitative Evaluation of the Antipsoriatic Activity of Sausage Tree (*Kigelia africana*). *African Journal of pure and Applied Chemistry* Vol. 6. No. 13: 214 - 218. (Nigeria) (Contribution: 70%)
 15. Fawehinmi, A. B., Lawal, H., Etatuvie, S. O. and **Oyedeji, F. O.** (2013) Preliminary Phytochemical Screening and Antimicrobial Evaluation of Four Medicinal Plants Traditionally Used in Nigeria for Skin Infection. *African Journal of Pure and Applied Chemistry* Vol. 7. No. 2: 44 - 49. (Nigeria) (Contribution: 50)
 16. **Oyedeji, F. O.**, Adeleke, B. B. and Soyemi, A. S. (2013) Physicochemical, Antimicrobial and Toxicological Properties of *Crassocephalum crepidiodes*. *Natura Journal* Vol. 17. No. 9: 14 - 24. (Netherlands) (Contribution: 70%)
 17. Alimi, L. O. and **Oyedeji, F. O.** (2015) Stabilization of Model Crude Oil Emulsion Using Different Concentrations of Asphaltene. *ChemSearch Journal* Vol. 6. No. 2: 25 - 31. (Nigeria) (Contribution: 50%)
 18. Olalude, C. B., **Oyedeji, F. O.** and Adegboyega, A. M. (2015) Physico-chemical Analysis of *Daucus Carota* (Carrot) Juice for Possible Industrial Applications *IOSR Journal of Applied Chemistry* Vol. 8. No. 8: 110 - 113. (United States of America) (Contribution: 30%)
 19. **Oyedeji, F. O.**, Fawehinmi, A. B. and Oladosu, O. O. (2016) Antimicrobial Activity of Dried Pulverized, Solvent Extracts and Black Soap Samples of *Mitracarpus villosus* Against Some Nosocomial Infection Causing Microorganisms *JSM Chemistry* Vol. 4. No. 3: 1030. (United States of America) (Contribution: 60%)
 20. **Oyedeji, F. O.** and Taiwo, B. (2017) Effects of UV on Ageing Properties of Some Nail Polishes, Acrylic Emulsions and Gloss Paints. *International Journal of Sciences* Vol. 6. No. 2: 22 - 33 (United Kingdom) (Contribution:70%)
 21. **Oyedeji, F. O.** and Bankole - Ojo, O. S. (2017) Comparative Evaluation of the Antipsoriatic Activity of *Acalypha wilkesiana*, *Caulcasia scandens* with *Kigelia africana*, Using the Mouse Tail Model. *African Journal of Pure and Applied Chemistry* Vol. 11. No. 4: 37 - 41. (Nigeria) (Contribution:70%)

22. **Oyedepi, F. O.** and Obaroakpo - Akemu, O. C. (2017) Simultaneous Determination of Hydroquinone, Kojic Acid and L - Ascorbic Acid in Some Cosmetic Emulsions. *International Journal of Sciences*. Vol. 6. No 8: 46 - 52. (United Kingdom) (Contribution:80%)
23. **Oyedepi, F. O.**, Adeleke, B. B. and Olalude, C. B. (2018) Proximate Analysis of *Polyalthia longifolia* Seeds. *International Journal of Engineering and Applied Sciences*. Vol. 5. No. 3: 74 - 78. (United States of America) (Contribution: 70%)
24. **Oyedepi, F. O.**, Erazua, E. A. and Adeleke, B. B. (2018) GC - Mass Spectroscopic Chemical Characterization and Physico - Chemical Properties of Oil from SeedKernels of Four Cultivars of *Magnifera Indica*. *European Journal of Pure and Applied Chemistry*. Vol. 5. No. 1: 7 – 17 (United Kingdom) (Contribution:60%)
25. **Oyedepi, F. O.** and Nwode, M. C. (2018) Effect of Some Citrus Juice Concentrates on Oil Emulsion. *Journal of Petroleum Technology and Alternative Fuels*. Vol. 9. No. 2: 7 - 13. (South Africa) (Contribution: 80%)
- *26 **Oyedepi, F. O.**, Erazua, E. A. and Adeleke, B. B. (2018) Toxicity Studies and Emulsion Preparation from Seed Kernels of Four Cultivars of *Magnifera indica*. *European Journal of Pure and Applied Chemistry*. Vol. 5. No. 1: 59 – (United Kingdom) (Contribution: 60%)
- *27 Bankole, O. S., and **Oyedepi, F.** (2018) Nanoscale Science and Nanotechnology Education in Africa: Importance and Challenges. *African Journal of Chemical Education*. Vol. 8. No. 1: 17-27. (Ethiopia) (Contribution: 50%)
- *28. Oyebamiji, A. K., **Oyedepi, F. O.**, Adejoro, I. A. and Adeleke, B. B. (2018) Anti-Fungal Activities of 2,4- Dintropheryl Hydrazones Derivatives: Dft and Docking Approaches. *Academia Arena*. Vol. 10. No. 6:12-16. (United States of America) (Contribution: 30%)
- *29 Fawehinmi, A. B and **Oyedepi, F. O.** (2019) Formulation and Evaluation of Anti-Dermatophyte Creams from Ethanol Extract of *Acalypha wilkiesiana*. *JSM Clinical Cytology and Pathology* Vol. 3. No. 5: (United States of America) (Contribution: 50%)
- *30 Oyebamiji, A., Adeleke, B. B., Adejoro, A and **Oyedepi, F.** (2019) Computational Studies of Some Hydrazone Derivatives as Antibacterial Agent: DFT and Methods. *Journal of Pure and Applied Chemistry Research*. Vol. 8 No. 1:1-6. (Indonesia) Contribution:30%)
- *31 Bankole-Ojo, O. S., and **Oyedepi, F. O.** (2019) A green Facile One-pot Approach to the Phytochemical Assisted Synthesis of 3-D Silicon (IV)oxide Nanosheet Using the Aqueous Leaf Extract of *Azadirachta indica* (Neem). *Journal of Materials and Environmental Sciences*. Vol. 10. No. 12:1304-1309. (Morrocco) (Contribution: 50%)
- *32 **Oyedepi, F. O.**, Udofia, L. U., and Balogun, M. O. (2020) Comparative Effects of *Datura metel* Leaf and Flower Extracts for Hair Regrowth. *International Journal of Scientific Research and Engineering Development*. Vol. 3. No. 3:975-982. (India) (Contribution: 60%)
- *33 Fawehinmi, A. B., and **Oyedepi, F. O.** (2020) Evaluation of Formulated Antidermatophyte Creams from Ethanol Extract of *Mitracarpus villosus* Leaves. *International Journal of Biochemistry Research & Review*. Vol. 29. No. 9:1-12 (United Kingdom) (Contribution: 50%)
- *34 **Oyedepi, F. O.**, Fawehinmi, A. B., and Lawal, H. (2020) Anti-dermatophyte Activity of Ethanol Extract and Stability of Creams Formulated from *Cassia alata* Linn. *International Journal of Biochemistry Research & Review* Vol. 29. No. 10: 1-8 (United Kingdom) (Contribution: 60%)

- *35 **Oyedeji, F. O.**, Alagbala, M. O. and Fawehinmi, A. B. (2021) Determination of Heavy Metal Levels in Lipstick samples Sold in Akilapa Market, Ibadan, Nigeria. *International Journal of Scientific & Engineering Research*. Vol. 12. No. 7: 14111425. (United States of America) (Contribution: 60%)
 - *36 **Oyedeji, F. O.**, Fawehinmi, A. B., Etatuvie, S. O., and Lawal, H. (2021) Comparative Efficacy of Anti-dermatophyte Creams Formulated from Ethanol Extracts of *Cassia occidentalis* and *Cassia*. *Annual Research & Review in Biology*, Vol. 36. No 4:1-18 (United Kingdom) (Contribution: 60%)
 - *37 **Oyedeji, F. O.**, Ajewole, O. O., and Fawehinmi, A. B. (2021) Effects of *Datura Metel* Leaves Extract on Blood Parameters and Lipid Profile Using Albino Rats as Model. *International Journal of Biochemistry Research & Review*. Vol. 30. No. 4: 24-32 (United Kingdom) (Contribution: 60%)
 - *38 **Oyedeji, F. O.**, Bankole-Ojo, O. S., and Ramanuj, N. (2021) Superhydrophobic Siloxane Functionalized Zirconia, Stannia and Ceria Nanoparticles Synthesized through Phyto-mediated Route. *Journal of Applied Surfaces and Interfaces*. Vol. 10. 1-8. (Morocco) (Contribution: 50%)
 - *39 **Oyedeji, F. O.**, Ogunkunle, T. T., Fawehinmi, A. B., and Balogun, O. M. (2021) Evaluation of Wound Healing and Antibacterial Activities of Crude Ethanol Extract of *Datura Metel* Leaves on Wistar Rats. *Scholars Research Library Archives of Applied Science Research*. Vol. 13. 10: 1-9. (United States of America) (Contribution: 60%)
 - *40 Fawehinmi, A. B., and **Oyedeji, F. O.**, (2021) Comparative Studies on the Activity of Extracts and Stability of Anti-dermatophyte Creams Formulated from *Cassia occidentalis* Linn Leaves. *World Journal of Pharmaceutical and Medical Research*. Vol. 7. No. 1: 82-88. (India) (Contribution: 50%)
 - *41 Bankole- Ojo, O.S., and **Oyedeji, F. O.** (2021) pH-tuneable Phyto-synthesized Hierarchical Hausmannite Nanostructures for Rapid and Efficient Removal of Methylene Blue from Aqueous Solutions. *Journal of Materials and Environmental Science*. Vol 12. No 2: 346-352 (Morocco) (Contribution: 50%)
 - *42 Bankole-Ojo, S.O., **Oyedeji, F. O.**, Raju, K. V. S. N., and Ramanuj, N. (2022) Salt Spray Resistance of Superhydrophobic, Waterborne Polyurethane Carbon Dots Nanocomposites. *Journal of Materials and Environmental Science*. Vol. 13. NO. 7: 814-824. (Morocco) (Contribution: 40%)
 - *43 **Oyedeji, F. O.**, Odeniyan, T. O., Fawehinmi, A. B., Balogun, O. M., and Adeleke, B. B. (2022) Antifungal Effectiveness of 1-(2,4-Dinitrophenyl)-2-(2,2,2- Trifluorophenyl-1Phenyl Ethylidene) Hydrazine on *Epidermophyton floccosum*: Wistar Rats as A Case Study. *Advances in Multidisciplinary & Scientific Research*. Vol. 8. No. 2: 21-32. (United States of America) (Contribution: 50%)
 - *44 **Oyedeji, F.O.** and Bankole-Ojo, O. S. (2022) Fluorescent Carbon Quantum Dots from Phoenix Dactyifera Fruit Pulp for UV Radiation Protection, *Journal of Applied Surfaces and Interfaces*. Vol. 11. 8-13. (Morocco) (Contribution:50%)
- (e) Books, Chapters in Books and Articles Already Accepted for Publications Nil
- (f) Technical Reports and Monograph Nil

*Publications which have appeared/accepted since last promotion.

XI Major Conferences and Workshops Attended with Papers Read (in Last 5 years)

- (1) World Congress on Traditional and Complimentary Medicine: Complimentary Medicine/Medicinal and Aromatic Plants/Medicinal Plants and Plant Products/ Unani Medicine/ Herbal Medicine. Radisson Blue Hotel, Abu Dhabi, United Arab Emirate, 24 - 25 September 2018.

Paper read

Oyedeji, F. O. and Olaniyan, O. A. (2018) Phytochemical Analysis, Antibacterial Assessment and Evaluation of the Effect of Ethanolic Extract of *Datura metel* Leaves on Burns Using Albino Rats Model.

- (2) 28th SMART-ISTEMS International Multidisciplinary Conference. An iSTEAMS Conference Series in Collaboration with the Society for Multidisciplinary and Advance Research Techniques (SMART) Africa. American International University West Africa. The Gambia. 24th -26th October 2021.

Paper read

Oyedeji, F. O. and Momoh, J. O. (2021) Potential Human Hair and Sheep Wool Dyeing Characteristics of Hair Colour Formulations Prepared from Four Vegetable Dyes.

- (3) 31st Smart-Isteams Multidisciplinary Conference. Multidisciplinary Innovations Conference & The A City – IEEE Area Six (6) Emerging Technologies Series. Balme Library Conference Centre, University of Ghana, and Academic City University College, Legon, Accra Ghana. 1st -3rd June 2022.

Paper read

Oyedeji, F. O., Odeniyan, T. O., Fawehinmi, A. B., Balogun, O. M., and Adeleke, B. B. (2022) Antifungal Effectiveness of 1-(2,4-Dinitrophenyl)-2-(2,2,2- Ttiphenyl-1Phenyl Ethylidene) Hydrazine on Epiderophyton floccosum: Wistar Rats as A Case Study.

XII Ten Best Publications that Reflect the Totality of my Contribution to Scholarship

1. **Oyedeji, F. O.**, Adeleke, B. B. and Akintola, C. B. (2011) Physicochemical and Fatty Acid Profile Analysis of *Polyalthia longifolia* Seed Oil. *Trends in Applied Science Research* Vol. 6. No. 6: 614 - 621(United States of America) (Contribution: 70%)
2. **Oyedeji, F. O.**, Hassan, G.O and Adeleke, B. B. (2011) Hydroquinone and Heavy Metals in Cosmetics. *Trends in Applied Science Research* Vol. 6. No. 7: 622 - 639. (United States of America) (Contribution: 70%)
3. **Oyedeji, F. O.**, Fawehinmi, A. B. and Oladosu, O. O. (2016) Antimicrobial Activity of Dried Pulverized, Solvent extracts and Black Soap Samples of *Mitracarpus villosus* Against Some Nosocomial Infection Causing Microorganisms *JSM Chemistry* Vol. 4. No. 3: 1030 (United States of America) (Contribution: 60)
4. **Oyedeji, F. O.** and Taiwo, B. (2017) Effects of UV on Ageing Properties of Some Nail Polishes, Acrylic Emulsions and Gloss Paints. *International Journal of Sciences* Vol. 6. No. 2: 22 - 33 (United Kingdom) (Contribution: 70%)
5. **Oyedeji, F. O.** and Bankole - Ojo, O. S. (2017) Quantitative Evaluation of the Antipsoriatic Activity of *Sausage Tree (Kigelia africana)*. *African Journal of Pure and Applied Chemistry* Vol. 6. No. 13: 214 - 218. (Nigeria) (Contribution: 70%)
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Dr. Folashade O. Oyedeji

Date

Research Focus

My research focus is in the general area of Industrial Chemistry and in the area of Cosmetic and Emulsion Chemistry using natural, especially plant-based materials to create biodegradable emulsions for various industrial processes using energy saving methods. My focus is relevant research for societal needs. To this end, I have worked in 5 main areas:

1. Analysis of locally and internationally manufactured cosmetics in the Nigerian Market.
2. Analysis of locally sourced vegetable and animal oils, mucilage, gums and collagen to determine their suitability for use in cosmetics and toiletries
3. Development of cosmetic formularies for skin use
4. Formulation of cosmetic emulsions containing various medicinal plant extracts and investigation of their effect on diseased skin using animal models
5. Investigations of emulsions in other industries (Petroleum, Paint and Food) and creation of functional nano emulsions for industrial use.

I started in my research by formulating, analyzing, and determining the basic constituents and properties of locally and internationally formulated cosmetic emulsions. I sought to discover which of the constituents of cosmetic emulsions produced what properties and their effects on the skin mantle. I have also researched into the development of natural emulsifiers for the Cosmetic, Food and Pharmaceutical Industries. Work is still ongoing in this area.

From this point I then started to investigate locally sourced vegetable and animal oils, mucilage, gums, collagen, chitin and medicinal plant extracts for possible inclusion in cosmetic emulsions for skin use, with the intent to moisturize, protect, ameliorate and possibly treat skin infections using animal models. In my search, I have investigated into the use of herbs for ameliorating skin conditions like psoriasis, which is endemic and sometimes fatal with caucasian skin, eczematous eruptions which could be allergic or infectious and quite widespread in the world targeting institution based (Nosocomial) microbes and dermatophyte infections on normal, bruised and burnt skin using locally grown herbs. Work is also ongoing on the provision of completely herbal solutions to alopecia because of different conditions. I have also produced functionalized nano materials from natural materials for protecting skin and for other industrial uses. In all the above, the intent is not to only provide completely biodegradable emulsions but also cheaper alternatives to existing treatments.

In my study of other emulsions apart from cosmetic emulsions I have researched into the possibility of providing cheaper and possible better alternatives to Enhanced Oil Recovery and Oil Spill Clean - up Operation. I have investigated the use of plant based demulsifiers to encourage the breakup of tight crude oil emulsions. In this respect, I have studied the effects of various citrus juices and some other plant extracts as demulsifiers, studying the mechanism and rate of demulsification. I have also worked on the ageing of paint emulsions.

In conclusion, I consider myself a cosmetic and emulsion chemist with leaning towards the provision of cheaper, biodegradable. and skin friendly industrial emulsions which meet societal needs.

Dr. Folashade O. Oyedepi

Date

