

Curriculum vitae
OJEWUMI Modupe Elizabeth (Ph.D)

PERSONAL DATA

NAME	OJEWUMI Modupe Elizabeth
NATIONALITY	Nigerian
GENDER	Female
MARITAL STATUS	Married
RELIGION	Christianity
CONTACT ADDRESS	Chemical Engineering Department Covenant University, Ota Canaan Land, KM 10, Idiroko Rd P.M.B. 1023, Ota Ogun State
E-MAIL ADDRESS	modupe.ojewumi@covenantuniversity.edu.ng

EDUCATIONAL HISTORY

INSTITUTIONS ATTENDED

S/N	Degree Level	Type	Institution
1.	1 st Degree	B. Tech. (Hons) Chemical Engineering	Ladoke Akintola University of Technology, Ogbomosho
2.	2 nd Degree	M.Sc. Chemical Engineering	University of Lagos, Akoka, Lagos.
3.	3 rd Degree	Ph.D Chemical Engineering	Covenant University

ACADEMIC POSITION HELD

1. College Examination/Time table committee, College of Engineering, Covenant University 2011 – 2017
2. Examination officer 2016 - 2017
3. CUSAS Panel member 2014 - 2016
4. SIWES Supervisor 2012 – 2017
5. Supervisor undergraduate projects 2011 – Till date
6. Coordinator Welfare committee 2011 - 2015
7. Examination Officer 2010 – 2012
8. Time table officer 2010 – 2015
9. Level Adviser 2010 – Till date

COURSES TAUGHT

UNDEGRADUATE

- | | |
|---|------------------|
| 1. CHE 200 : Introduction to Chemical Engineering | 2010 - 2012 |
| 2. GEC 221 : Introduction to Engineering Thermodynamics | 2012 - Till date |
| 3. CHE 319: Technology Management | 2010 - 2012 |
| 4. CHE 320 : Chemical Engineering Process Analysis II | 2012- Till date |
| 5. CHE 322 : Chemical Engineering Laboratory I | 2010 – Till date |
| 6. CHE 411 : Unit Operations II | 2013 – Till date |
| 7. CHE 412 : Chemical Engineering Laboratory II | 2010 – Till date |
| 8. CHE 414 : Chemical Engineering design I | 2011 - 2014 |
| 9. CHE 519 : Research Project | 2013 – Till date |
| 10. CHE 511 : Biochemical Engineering | 2010 – Till date |
| 11. CHE 523 : Design Project | 2013 – Till date |
| 12. CHE 527: Sugar Technology | 2014 – 2015 |

POSTGRADUATE

1. CHE 824: Advanced Biochemical Engineering
2. CHE 815: Chemical Reaction Kinetics

REVIEWER

- Microbiology Research Journal International
- Journal of Geography, Environment and Earth Science International [Science domain International]
- Asian Soil Research Journal
- Journal in Advances Biology & Biotechnology
- Asian Journal of Environment & Ecology
- Annual Research and Review in Biology
- Journal of Advances in Microbiology
- Archives of Current Research International
- Journal of Scientific Research and Reports
- Chemical Data Collections
- Journal of Energy Research and Reviews
- South Asian Journal of Research in Microbiology

CURRENT RESEARCH

1. Development of Percentage Protein Composition in Fermented African locust bean seed and production of bouillon cubes.
2. Mosquito repellent: Production of mosquito repellent candle and cream
3. Waste paper to edible Sugar: Conversion of waste papers to edible sugar

MEMBERSHIP OF PROFESSIONAL BODIES

1. The Nigerian Society of Engineers {Reg. No : 25942}- Corporate Member
2. The Council for the Regulation of Engineering in Nigeria {Reg. No : R. 22,474}
3. American Institute of Chemical Engineers {AIChE} {Reg. No 9900108563}

SELECTED PUBLICATION AND JOURNALS

1. Ayoola A. Ayodeji, Igho E. Blessing, Babalola Rasheed, **Ojewumi E. Modupe**, Ogunbiyi Ajibola, Abatan G. Oluwabunmi, and Fayomi S. Ojo (2018). [Production of Biodiesel from Soybean Oil Using Calcium Oxide and Cow Bone as Catalysts](#). *Materials Focus*. 7(20)
2. **Modupe Elizabeth Ojewumi***, Kayode Gbolahan Oyeyemi, Moses Eterigho Emeter, Joshua Olusegun Okeniyi. [Data on the rheological behavior of cassava starch paste using different models](#). PII: S2352-3409(18)30763-7. *Data in Brief*.
3. Ayoola A Ayodeji, **Ojewumi M.E***, Babalola Rasheed, James M Ayodele [Data on CaO and Eggshell Catalysts Used for Biodiesel Production](#). *Data in Brief*. . 1466-1473.
4. **Modupe Elizabeth Ojewumi***, Alaba Oladipupo Adeyemi, Emmanuel Omotayo Ojewumi. [Oil extract from local leaves - an alternative to synthetic mosquito repellants](#). *Pharmacophore*, 9(2) 2018, Pages: 1-6.
5. Okeniyi J.O., Popoola AP., **M. E. Ojewumi**, E.T. Okeniyi, J.O. Ikotun. Tectona grandis Capped Silver-Nanoparticle Material Effects on Microbial Strains Inducing Microbiologically Influenced Corrosion. *International Journal of Chemical Engineering* Volume 2018, Article ID 7161537, 6 pages
6. **Modupe Elizabeth Ojewumi***, Abiodun James Omoleye, Atonye Stephanie Nyingifa (2018). Biological and chemical changes during the aerobic and anaerobic fermentation of African locust bean. *International Journal of Chemistry Studies* ISSN: 2581-348X www.chemistryjournal.com. 2(2); 25-30.
7. **Modupe Elizabeth Ojewumi***, Ejemen Valentina Anenih, Olugbenga Samson Taiwo, Bosede Temitope Adekeye, Olugbenga Olufemi Awolu, Emmanuel Omotayo Ojewumi. A Bioremediation Study of Raw and Treated Crude Petroleum Oil Polluted Soil with *Aspergillus niger* and *Pseudomonas aeruginosa*. *Journal of Ecological Engineering*. 19(2), 226–235
8. **Modupe Elizabeth Ojewumi***, Joshua O Okeniyi, Valentina A Ejemen, Elizabeth T Okeniyi, J.O. Ikotun, A. P Popoola (2018). Bioremediation: Data on *Pseudomonas aeruginosa* Effects on the Bioremediation of Crude Oil Polluted Soil. Data in Brief. 19, 101-113. <https://doi.org/10.1016/j.dib.2018.04.102>.
9. **Modupe Elizabeth Ojewumi***, James Omoleye, Moses Emeter, Ayodeji Ayoola, Oyinlola Obanla, Elizabeth Babatunde, Ajibola Ogunbiyi, Olugbenga Awolu, Emmanuel Ojewumi. Effect of various temperatures on the nutritional compositions of fermented African locust bean (*Parkia biglobosa*) seed. *International Journal of Food Science and Nutrition*. 3(1); 117-122.
10. **Modupe Elizabeth Ojewumi***, Akwayo Iniobong Job, Olugbenga Samson Taiwo, Oyinlola Mopelola Obanla, Ayodeji Ayodele Ayoola, Emmanuel Omotayo Ojewumi, Esther Adenike Oyeniyi. Bio-Conversion of Sweet Potato Peel Waste to BioEthanol Using *Saccharomyces Cerevisiae*. *International Journal of Pharmaceutical and Phytopharmacological Research (eIJPPR)*.

11. **M. E. Ojewumi***, J.A. Omoleye, A.A. Adesola, E. E. Alagbe (2018). Evaluation of fermentation rate for the production of a protein based African seed condiment. MDPI.
12. **Modupe Elizabeth Ojewumi***, Opeyemi Adewale Adeeyo, Oluwaseun Mary Akingbade, Damilola Elizabeth Babatunde, Ayodeji Ayodele Ayoola, Olugbenga Olufemi Awolu, Emmanuel Omotayo Ojewumi and Oladele Julius Omodara (2018). Evaluation of glucose syrup produced from cassava hydrolyzed with malted grains (rice, sorghum & maize). *International Journal of Pharmaceutical Sciences and Research*. 9(8): 1000-11.
13. Awolu, O.O.* , Ifesan, B.O.T., Sodipo, **M.E. Ojewumi**, M.E., Arowosafe, C.F. and Oladeji, O.A. (2017). Optimization of Nutritional and Pasting Properties of Rice-Sweet Potato Based Composite Flour for Biscuit Production. *Applied Tropical Agriculture*. 22(2), 143-149. A publication of the School of Agriculture and Agricultural Technology, The Federal University of Technology, Akure, Nigeria
14. **M.E. Ojewumi***, J.A. Omoleye, A.A. Ayoola, A.A. Ajayi, B.T. Adekeye, A.O. Adeyemi (2018). Effects of Salting and Drying on the Deterioration Rate of Fermented *Parkia biglobosa* Seed. *Journal of Nutritional Health & Food Engineering*. 8(1): 0025.
15. Olugbenga Olufemi Awolu, Grace Oluwaseun Okedele, **Modupe Elizabeth Ojewumi**, Funmilayo Grace Oseyemi (2018). Functional Jam Production from Blends of Banana, Pineapple and Watermelon Pulp. *International Journal of Food Science and Biotechnology*. 3(1): 7-14
16. **Modupe Elizabeth Ojewumi***, Barbra Ijeoma Obielue, Moses Eterigho Emeterere, Olugbenga Olufemi Awolu, Emmanuel Omotayo Ojewumi (2018). Alkaline Pre-Treatment and Enzymatic Hydrolysis of Waste Papers to Fermentable Sugar. *Journal of Ecological Engineering*. 19(1): 211–217.
17. Moses Eterigho Emeterere, Marvel L. Akinyemi, **Modupe Ojewumi** (2018). Pol. J. Environ. Stud. Systemic Study of Aerosol Loading and Retention over Praia-Cape Verde: Satellite and Ground Observation Analysis. *Polish Journal of Environmental Studies*. 27(1): 1-8.
18. **Modupe Elizabeth Ojewumi***, Samuel Oluwafunsho Adedokun, Oladele Julius Omodara, Esther Adenike Oyeniyi, Olugbenga Samson Taiwo, Emmanuel Omotayo Ojewumi. Phytochemical and Antimicrobial Activities of the Leaf Oil Extract of *Mentha Spicata* and its Efficacy in Repelling Mosquito. *International Journal of Pharmaceutical Research & Allied Sciences*. 2017, 6(4):17-27
19. **Modupe Elizabeth Ojewumi***, Moses Eterigho Emeterere, Damilola Elizabeth Babatunde and Joshua Olusegun Okeniyi. In Situ Bioremediation of Crude Petroleum Oil Polluted Soil Using Mathematical Experimentation. *International Journal of Chemical Engineering*. Volume 2017, Article ID 5184760, 11 pages.
20. **Modupe Elizabeth Ojewumi***, Eluagwule Benjamin, Ayoola Ayodeji, Ogunbiyi Ajibola, Emeterere Moses, Joseph Olufunmilayo. Termiticidal Effect of African Locust Beans (*Parkia biglobosa*) seed oil extracts. *International Journal of Current Research*. Vol. 9, Issue, 07, pp.53929-53934, July, 2017.
21. **Modupe Elizabeth Ojewumi***, Adesanmi Adedoyin Ayomide, Oyinlola Mopelola Obanla, Olugbenga Olufemi Awolu, Emmanuel Omotayo Ojewumi (2017). Pozzolanitic properties of Waste Agricultural Biomass - African Locust Bean Pod Waste. *World Journal of Environmental Biosciences*. 6(3): 1-7. ISSN 2277- 8047.
22. **M. E. Ojewumi***, M. G. Banjo , M. O. Oresegun, T. A. Ogunbiyi, A. A. Ayoola, O. O. Awolu and E. O. Ojewumi (2017). Analytical Investigation of the Extract of Lemon Grass

Leaves in Repelling Mosquito. *International Journal of Pharmaceutical Sciences and Research*. 8(5): 2048-2055.

23. Olugbenga O.O, ***M. E. Ojewumi**, D. O. Ojo, H. I. Olofin, S. O. Jegede (2017). Comparative Analyses of Functional, Pasting and Morphological Characteristics of Native and Modified Tigernut Starches with their Blends. *Cogent Food and Agriculture*. 3: 1306934.
24. **Modupe E. Ojewumi***, James A. Omoleye and Adesola A. Ajayi (2017). Optimization of Fermentation Conditions for the Production of Protein Composition in *Parkia biglobosa* Seeds using Response Surface Methodology. *International Journal of Applied Engineering Research*. Volume 12, Number 22 (2017) pp. 12852-12859.
25. M.E. Emeteri, I.S. Aro, S. Jack-Quincy, O.D. Okonkwo, ***M.E. Ojewumi**, O.J. Omodara, E.N. Jasper and A.O. Adeyemi (2017). Investigating the cyclic breaking of butyl-, methyl- and ethyl-biodiesel from waste vegetable oil using ultraviolet-visible spectrophotometry. 4: 1321084. *Cogent Engineering*.
26. Adeoye, J. B., Omoleye, J. A., ***Ojewumi, M. E.** and Babalola, R. Synthesis of Zeolite Y from Kaolin Using Novel Method of Dealumination (2017). *International Journal of Applied Engineering Research*. 12(5): 755-760.
27. ***Ojewumi, Modupe, E.**, Omoleye, Abiodun, J., Ajayi, Adesola A., (2016). The Effect of Different Starter Cultures on the Protein Content in Fermented African Locust bean (*Parkia biglobosa*) Seeds. *International Journal of Research & Technology*. 5(04): 249 – 255. ISSN: 2278-0181'
28. ***Ojewumi, M. E.**, Omoleye, Abiodun, J., Ajayi, Adesola A., (2016). The Study of the Effect of Moisture Content on the Biochemical Deterioration of Stored Fermented *Parkia Biglobosa* Seeds, *Open Journal of Engineering Research and Technology*. 1 (1):14 – 22.
29. Ayoola, A.A., Anawe, P.A.L., ***Ojewumi, M.E.**, Amaraibi, R.J. (2016). Comparison of the Properties of Palm Oil and Palm kernel Oil Biodiesel in Relation to the Degree of Unsaturation of their Oil Feedstocks. *International Journal of Applied and Natural Sciences*. ISSN(P): 2319-4014
30. Ayoola, A.A., Adeeyo, O.A., ***Ojewumi, M.E.**, Ibiye, B.P. (2016). Oxidation Stability of Fatty Acid Methyl Ester under Three Different Conditions. *IISTE Journal of Energy Technology and Policy Research in Engineering and Technology*. 6(2):6 -11. ISSN: 2225-0573
31. Oyidia, Elendu, ***Modupe, Ojewumi**, Yaw D. Yeboah, Egwu, E. Kalu. (2015). Use of a Mixed Formaldehyde and Sodium Hypophosphite Reducing Agent Bath in the Electroless Synthesis of Cu-Ni-Mo-P Electro-catalyst Active for Glycerol Oxidation. *International Journal of Electrochemical Science*. 10:10792 – 10805
32. ***Ojewumi, M.E.**, Owolabi, R.U. (2012). The Effectiveness of the Extract of 'Hyptis Sauveolens' Leave (A Specie of Effirin) in Repelling Mosquito. *Transnational Journal of Science and Technology*. 2(8). ISSN: 1857-8047
33. Owolabi, R.U., Osiyemi, N.A., Amosa, M.K., ***Ojewumi, M.E.** (2011). Biodiesel from Household/Restaurant Waste Cooking Oil (WCO). *Journal of Chemical Engineering and Process Technology*. 2(4). (ISSN: 2157-7048).

CONFERENCES AND WORKSHOP ATTENDED

1. International Training on Processing and water treatment management, Federal University of Yola, Adamawa State, 2002.
2. A-3 day Mandatory Continuing Professional Education Course for Prospective corporate members. 23rd -25th March, 2011.
3. 3rd Covenant University International Conference on African Development Issues (CU-ICADI, 2016).
4. Certificate in Leadership Development, African Development Center Covenant University, Ota. 2016
5. International conference on carbon capture, storage and utilization: A Means to Mitigate the effect of Climate Change (July -6-8 2016). Covenant University, Ota.
6. Training on the use of MATLAB, 2017. College of Engineering Covenant University, Ota, Ogun State.
7. Workshop titled: “*Non-scoring International Engineering Alliance (IEA) Accreditation*” March 8th 2018. College of Engineering, Covenant University, Ota.
8. TECHWOMEN Mentors from Silicon Valley, U.S.A. Professional Development workshop at Covenant University.
Topic: The Future of STEM: Why women belong here,
Date: March 20th, 2018. CUCRED Building.
9. 4th College of Engineering Seminar on ABET Accreditation
July 13th & July 16th 2018.
TOPIC: “*ABET ACCREDITATION TRAINING FOR FACULTY AND STAFF, COLLEGE OF ENGINEERING*” by Prof. Esther Akinlabi (University of Johannesburg, South Africa)

CONFERENCE PAPER:

1. ***Ojewumi M.E.**, Omoleye, J.A., Ajayi, A.A. (2016). Optimum Fermentation Temperature for the Protein Yield of *Parkia biglobosa* seeds (Iyere). 3rd Covenant University International Conference on African Development Issues (CU-ICADI, 2016). Pg. 584 – 587. ISSN.2449 – 075X
2. Sanni S. E., Adeeyo O. A., Efeovbokhan V., ***Ojewumi M.E.**, Ayoola A., Ogunbiyi A., Emeteri, M. E (2016). Comparative Analysis of Adsorption of Methylene Blue Dye Using Carbon from Palmkernel Shell Activated by Different Activating Agents. 3rd Covenant University International Conference on African Development Issues (CU-ICADI, 2016). Pg 175- 181. ISSN.2449 – 075X
3. Adeniyi, O.D., Ewan, B.C.R., Adeniyi, M.I., Olutoye, M.A., Okafor, J.A., Afolabi, E.A., Ayoola, A.A., ***Ojewumi, M.E.**, Omoleye, J.A. (2015). Comparison of the electrochemical performances of MCDCCFC using hand and ball milled biomass carbon fuels. A presentation at the AUSTECH conference, Abuja, Nigeria. October 12th – 13th. (<http://conference.aust.edu.ng/>).

PATENT

Ojewumi, M.E*, Omoleye, J.A., Ajayi, A.A. (2017).

Date of Patent: 06/10/2016

Date of Sealing: 15/03/2017

Certification Number: 004322

Title: Optimum Conditions for the Fermentation Process of the Protein yield in *Parkia biglobosa* seeds.

INVENTION

M.E. Ojewumi* and J.A. Omoleye (2016). Design and fabrication of a Fermenter [A bioreactor].

EXTRA CURRICULAR ACTIVITIES

Reading, Decoration and Acting drama.