

# **CURRICULUM VITAE**

## **A. GENERAL INFORMATION**

1. **Name:** OYELAMI Seun
2. **Date and Place of Birth:** 5th November, 1981, Ibadan.
3. **Gender:** Male
4. **Nationality:** Nigerian
5. **State of Origin:** Osun State
6. **Local Government Area:** Aiyedaade LGA
7. **Marital Status:** Married
8. **Names and Ages of Children:** Obaferanmi Oluwadarasimi (14 years)  
Daniel Kehinde (10 years)  
David Taiwo (10 years)  
Harry Kehinde (6 years)  
Henry Taiwo (6 years)
9. **Name and Relationship of Next of Kin:** Mrs Fadeke L. Oyelami (Spouse)
10. **Permanent Contact Address:** No, 4, Zone 6, Itesiwaju Oluwatedo  
Community, Owode - Ede
11. **E-mail address:** seun.oyelami@uniosun.edu.ng
12. **Registration with Research gate:** Yes
13. **If yes provide link:** <https://www.researchgate.net/profile/Seun-Oyelami>
14. **If not, why:** Not Applicable
15. **Registration with Google Scholar:** Yes
16. **Google Scholar link:** <https://scholar.google.com/citations?user=VeYI5FcAAAAJ&hl=en>
17. **If not, why:** Not Applicable
18. **Cell Phone Number:** +2348034960033
19. **College /Faculty:** Science, Engineering & Technology/  
Faculty of Engineering
20. **Department:** Mechanical Engineering
21. **Date of Assumption of Duty:** 9<sup>th</sup> June, 2015
22. **Position on First Appointment:** Lecturer II
23. **Present Position & Salary:** Senior Lecturer, CONUASS 05/04
24. **Date of Present Position:** 1st October, 2021(by promotion)
25. **Is your appointment confirmed?** Yes
26. **If No, why Not?** Not Applicable
27. **Date of Confirmation of Appointment:** 2nd December, 2020

## **B. EDUCATIONAL BACKGROUND**

### **1. Educational Institutions Attended with Dates**

- (i) Ladoke Akintola University of Technology, Ogbomoso 2014 – 2020
- (ii) Federal University of Agriculture, Abeokuta 2010 – 2013
- (iii) Ladoke Akintola University of Technology, Ogbomoso 2000– 2007

(iv) Aagba Methodist High school Aagba 1993 – 2000

**2. Academic and Professional Qualifications with Date/Issuing Authority**

- (i) Doctor of Philosophy (Ph.D.) in Mechanical Engineering (LAUTECH) 2020
- (ii) Master of Engineering (M.Eng.) Degree in Mech. Engineering (FUNAAB) 2013
- (iii) Council for Regulation of Engineering Profession (COREN) 2012
- (iv) Bachelor of Technology (B.Tech.) Degree in Mech. Engineering (LAUTECH)  
Second Class (Lower Division) 2007
- (v) National Examination Council (NECO) 2000

**3. Other Relevant Qualifications**

None

**4. Honours, Awards and Distinctions**

None

**C. WORK EXPERIENCE IN OTHER UNIVERSITY SYSTEM**

(i) 2025 **Adeleke University, Ede, Osun State, Nigeria**

**External Examiner:** Investigation of Silica Sand and Cow Bone Based Composite for Structural Application. Master of Philosophy Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering, AU, Ede, Osun State, Nigeria --By ADEYEMO, Moses Olukunle (AUPG/23/0018).

(ii) 2025 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**

**External Examiner:** Production of Medium- Grade Fuel from Pyrolysis of Teak Tree Leave. Master of Philosophy Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By OGUNRINDE, Timothy Kayode (2022012886).

(iii) 2025 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**

**External Examiner:** Effect of Selected Process Parameters on Biofuel Yields from Pyrolysis of Mango (*Mangifera Indica*) Shells and Kernels. Master of Philosophy Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By ADEWOYE, Ezekiah Ademola (2021009290).

(iv) 2025 **Adeleke University, Ede, Osun State, Nigeria**

**External Examiner:** Investigation of Silica Sand and Cow Bone Based Composite for Structural Application. Master of Philosophy Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering, AU, Ede, Osun State, Nigeria --By ADEYEMO, Moses Olukunle (AUPG/23/0018).

(v) 2025 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**

**External Examiner:** Optimization of Fuel Properties of Composite Briquette made from Melon, Locust and Groundnut Shells. Master of Philosophy Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By ORILONISHE, Raufu Ayinde (AAA2021009097).

- (vi) 2024 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**  
**External Examiner:** Development of Silica Nanoparticle-Based Material for Enhancing Post Harvest Life Span of Blackage Cowpea (*Vigna Unguiculate*) Master of Philosophy Research Thesis at the Department of Agricultural Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By AREMU, Ibukun Sunday (AAA2000044).
- (vii) 2024 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**  
**External Examiner:** Evaluation of Potentials of Underutilized Gliricidia Sepium Seed Oil and Selected Biogenic Shells for Bio-diesel Production. Master of Philosophy Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By OWOO, Ezedem Ademola (AAA1900371).
- (viii) 2023 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**  
**External Examiner:** Effects of Reactor Outlet Position on Syngas Production from Plasma Gasification of Medical Waste. Master of Technology Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By OLADEPO, Adelakun (AAA140230).
- (ix) 2023 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**  
**External Examiner:** Determination of Magnetic Effect on Migration and Removal of Aromatic Hydrocarbon Pollutants in Ground Water using Steam Injection. Master of Technology Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By ADELEKE, Adetoye Abiodun (AAA1900132).
- (x) 2023 **Ladoke Akintola University of Technology, Ogbomoso, Oyo State, Nigeria**  
**External Examiner:** A lay-up Process Development of a Bumper using Egg-shell and Luffa Fibre as Composite materials Master of Technology Research Thesis at the Department of Mechanical Engineering, Faculty of Engineering and Technology, LAUTECH, Ogbomoso, Oyo State, Nigeria --By AJIBOYE, Temilade (AAA19001358).

#### **D. WORK EXPERIENCE OUTSIDE THE UNIVERSITY SYSTEM**

- i. **Pava allied services limited. Lagos**  
*Field maintenance engineer* (2010 - 2011)
- ii. **Morpol Engineering services, Lagos**  
*Mechanical trainee engineer* (2009 – 2010)

#### **E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY**

- (i) Associate Professor (2024 – till date)
- (i) Senior Lecturer (2021 – 2024)

- |       |             |               |
|-------|-------------|---------------|
| (ii)  | Lecturer I  | (2018 – 2021) |
| (iii) | Lecturer II | (2015 – 2018) |

**E. CO-CURRICULAR PROFESSIONAL EXPERIENCE:**

NIL

**G. MEMBERSHIP OF PROFESSIONAL BODIES:**

- (i) COREN
- (ii) NSE
- (iii) NimechE

**H. SERVICES**

**Department**

- Ag. HOD (2024 till date)
- Departmental Postgraduate Coordinator (2022 – 2024)
- 100 Level Adviser
- 400 Level Adviser
- Departmental SIWES representative, Mechanical Engineering Department, Osun State University, Oshogbo, 2016 -2022.
- Departmental board of examination secretary (2017- 2021).

**Faculty**

- Member, Faculty Management (2024 till date)
- Subdean Postgraduate School (2022 - 2024)
- Member, Faculty Board of Studies (2021 till date)
- Faculty chairman, GNSE Induction Committee (2020-2023).
- Faculty SIWES Coordinator, Faculty of Engineering (2020-2024).
- Committee member, UNIOSUN induction of graduate engineers into the Nigerian Society of Engineers (2016 and 2019)

**College**

- Technical and Publicity Chairman, College of SET 5<sup>th</sup> College Lecture (2026)
- Member, College of SET Management (2024 till date)
- Member, College Board of Studies (2021 till date)
- Member, Maiden edition of Annual College Lecture Committee (2022).

**University**

- Member, University Senate (2024 till date)
- Member, Postgraduate College Board (2022 till 2024)
- Member, Postgraduate College Executive Board (2022 till date)
- Member, Maiden edition of Annual Postgraduate College Lecture Committee (2023).
- Member, Committee on maintenance and repair of Foton Buses (2016)

### **Community**

- Alumni President, Osogbo Grammar School '97 SET (April 2025 till date)
- Ex- Officio, Osun State University Staff CICS (May 2023 till date)
- President, Osun State University Staff CICS (October,2020 – May 2023)
- Chairman, Zone 6 Itesiwaju Oluwatedo Community, Owode-Ede (2019- 2021).
- Secretary, Osun State University Staff CICS (November,2017- September, 2020)

### **National**

- INEC Presiding Officer (Polling Unit) (2007)
- UTME Proctor (2020 - 2025)
- National Youth Service Corps at Ogun State Water Corporation, Ogun State (2007-2008)

### **International:**

#### ***Reviewer for:***

- Adeleke University Journal of Engineering and Technology; 2023 till date
- International Journal of Sustainable Engineering by (Taylor & Francis); 2022 till date
- Journal of Energy and Safety Technology (JEST) University of Technology, Malaysia;2022 till date
- Jordan Journal of Mechanical and Industrial Engineering (JJMIE); 2021 till date
- Environmental Progress and Sustainable Energy (Wiley); 2020 till date
- Nigeria Journal of Technology, UNN(NIJOTECH); 2020 till date
- Uniosun Journal of Engineering & Environmental Sciences (UJEES); 2019 till date
- Environmental Quality Management (Wiley); 2019 till date

### **I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION (2023/2024)**

**MEE 208:** Workshop Technology II

**MEE 411:** Refrigeration and Air-conditioning I

**MEE 501:** Internal Combustion Engine

**MEE 504:** Automobile Engineering

**MEE 509:** Student's Project I

**MEE 510:** Student's Project II

**MEE 513:** Refrigeration and Air-conditioning II

**MEE 710:** Computer Integrated Manufacturing

**MEE 721:** Material for Clean Energy Technology

**MEE 722:** Combustion

**MEE 801:** Research Method I

## **J. GRADUATE STUDIES SUPERVISION:**

- (a)* AGBOOLA Mutiu Kolawole (2022/44222) Enhancement of the Power Quality of Grid Connected Wind Energy System using Artificial Neural Network Based Tip speed ratio controller - PhD. (Completed)
- (b)* ADEFAJO Abdulhafiz Ademola – (2022/44196) Development and Evaluation of Sustainable Kaolin and Rice Husk Ash Hybrid Reinforced Composite for Industrial Purpose – PhD. (Completed)
- (c)* ADENIRAN Adegboye David – (2022/44197) Development and Heat Transfer Modelling of a Metal Charcoal Kiln – PhD. (Completed)
- (d)* OLAJIRE Samson Oludare (2022/44154) Modelling of Biogas Production from Anaerobic C0-digestion of Fruit- vegetable waste and Cow dung using Artificial Neural Network. – PhD. (Completed).
- (e)* ADEKOYA Anthony – (2023/52861). Development of advanced traffic management system utilising camera enabling integration. Ph.D. (Completed)
- (f)* BAMIGBOYE James T. – (2023/52806). Evaluation of the thermophysical and emission characteristics of mesocap fibre-bituminous coal blends in briquette production. Ph.D. (Completed)
- (g)* OLANIYI Bisola Abigail – (PG2525466687) A computational assessment of the impacts of atmospheric conditions on the performance of photovoltaic systems in tropical climate. Ph.D. (Ongoing)
- (h)* BANKOLE Samson Awosika – (MEE/2017/0040). Optimising Eucalyptus-wood and coconut activated carbons to remove gases and particulate matters from diesel and petrol engine exhaust emissions. Ph.D. (Ongoing)
- (i)* ASIRU Fatai Ayodele – (2023/52653). Development of a web-based air pollutant and climate data monitor for remote application. Ph.D (Ongoing)
- (j)* ILORI Odunayo Peter– (2023/52741). Characterisation and optimization of fused filament fabrication parameters for hybrid carbon/Kevlar fiber reinforced thermoplastic composite for crash-box application. Ph.D (Ongoing)
- (k)* DEHINBO Opeoluwa - (2023/52741). Evaluation of air pollutant emissions and ambient air quality of some selected welding shops. Ph.D (Ongoing)
- (l)* OKELEYE Ayodeji Elijah (MEE/2015/0016). Development and optimisation of sustainable rice husk as minimum based composite for brake pad application – M. ENG. (Completed)
- (m)* ASIRU Fatai (2024/52653). Design and Fabrication of Retractable Carport – M. ENG. (Completed)

- (n) FADARE Oluwaseun Adekola (2024/63694). Investigation of phosphating and electroplating on B7 on carbon steel stud for corrosion inhibition – M. ENG. (Completed)
- (o) OKELEYE Funmilayo Precious (MEE/2015/004). Development and optimisation of kaolin filled aluminium composite for engine components – M. ENG. (Completed)
- (p) AWOSIKA Bankole Samson (2023/52742). Optimisation and Characterisation of Biochar Yield from Wood Chips and Corncobs through Pyrolysis and Co-pyrolysis for Heating Application – M. ENG. (Completed).
- (q) ASHIRU Fatai – (MEE/2017/0040). Design and Fabrication of Retractable Carport – M. ENG. (Completed)
- (r) OGUNDAHUNSI Ayomoposi Timothy- (MEE/2016/0015). Optimisation of hydroxyapatite generation from snail shell source – M. ENG. (Completed).
- (s) IGE Daniel Kayode – (2023/52783). Development and characteristic of briquette production from pyrolyzed and non-pyrolyzed oil residue – M. ENG. (Completed)
- (t) FANIFOSI Johnson Olaniyi- (2023/52740). Development and Performance Evaluation of Dual powered automated tyre inflator – M. ENG. (Completed).
- (u) AKANBI Oluwafemi Mathew - (2023/52781). Empirical study of the effect of inclination angle and hub diameter on power generation of an Archimedes screw wave energy converter – M. ENG. (Completed).
- (v) AKINLOYE Akinyele (MEE/2014/0036) Development and Optimization of Biomass-faecal based solid fuel for heating applications – M. ENG. (Completed)
- (w) AJAO LUKMAN (MEE/2014/0009) Development of Expert System for Determination of Due date for Job Shop – M.ENG. (Completed)
- (x) OLAGOKE Babawale Lawal (ENP/19/20/H/0037) Cyclo-Stationary Performance for Cogniive Radio Using Quadraure Amplitude Modulation over Different adding Channels. - M.ENG. (Completed)
- (y) AJANI Lukman Iyiola (ENP/19/20/H/0055) Comparion of Installation Inclination Angles of PV Solar Panel for Optimum Performance- M.ENG. (Completed)

#### **K. PUBLICATIONS**

|       |                                       |      |
|-------|---------------------------------------|------|
| (I)   | <u>Books (authored/ co-authored):</u> | None |
| (II)  | <u>Books (edited/ co-edited):</u>     | None |
| (III) | <u>Monographs:</u>                    | None |
| (IV)  | <u>Chapters in books:</u>             | None |
| (V)   | <u>Articles in learned journals:</u>  |      |

1. **Oyelami S.,** Adeniran A. D., Okedere O. B., Adeboye B. S., and Oyewo A. T. (2026). Python-based heat transfer modelling of charcoal kiln optimization,

Borobudur engineering Review, published by Universitas Muhammadiyah  
Magelang. Malaysia: Doi:<https://doi.org/10.31603/160b7z68>.  
<https://coba.unimma.ac.id/benr/article/download/14607/6863/67062>  
(OFFSHORE).

2. Bamigboye I. T., Adeboye B. S., **Oyelami S.**, and Alamu O. J. (2026). Co-pyrolysis of oil palm mesocarp fiber and bituminous coal blends via thermogravimetric analysis, *Cureus journal of engineering* 3: es44388-026-00122-6. Doi:<https://doi.org/10.7759/s44388-026-00122-6> (OFFSHORE). .
3. Adekoya, A. O., Adewuyi, A. P., Adedeji, W. O., **Oyelami, S.**, & Oyewo, A. T. (2026). Design And Implementation of a Smart Energy Monitoring System for Multi-Outlet using Iot. *Daha International University Academic Journal (DIUAJ)*, 5(1), 84- 106. (OFFSHORE). Available at: <https://www.diuaj.com/index.php/pub/article/view/69>,
4. Alamu O. J., Oyewo A. T., Bankole B. S., **Oyelami S.**, Olawuyi L. S. (2026). Effect of some pyrolytic conditions for enhanced biochar yield of coconut shell (*Cocos nucifera*) for heating application. *Nigeria Journal of Applied Science and Innovative Technology*, Vol 2 (1), pg 100-117. (ONSHORE). Available at: <https://nijasit.bellsuniversity.edu.ng/>
5. Adedeji W. O., **Oyelami S.**, Adekoya O. A., Oyewo A. T. (2026). Fault Detection and Diagnosis in Industrial Automation Using Machine Learning Based Predictive Maintenance. *Nigeria Journal of Applied Science and Innovative Technology*, Vol 2 (1), pg 100-117. (ONSHORE). Available at: <https://nijasit.bellsuniversity.edu.ng/>.
6. **Oyelami, S.**, Oyewo, A. T., Ibiyemi, P. O., Oyewole, K. A., Okedere, O. B., Olamide Lateef Ogunsesan, Adegbola, J. O., & Ajayi, S. A. (2025). Environmental Impacts of Commercial Haulage Operations on Air Quality in Nigeria. *International Journal of Integrated Engineering*, 17(9), 220-232. (OFFSHORE) Available at: <https://penerbit.uthm.edu.my/ojs/index.php/ijie/article/view/19505>
7. Idris, M. O., Oyelami, S., Abioye, A. G., Ajao, A. L., & Oyewo, A. T. (2025). Design and Construction of Furnace with Temperature Measurement Device Suitable for Small Scale Industries. *UNIOSUN Journal of Engineering and Environmental Sciences*, Vol. 7, No. 1., doi: 10.36108/ujees/5202.70.0151. (ONSHORE). Available at: <https://ujees.com.ng/>
8. Adedeji, W. O., Olukayode, O., **Oyelami, S.**, Adekoya, O., Ojerinde, B. J. and Akinola O. J. (2025). Drone (UAV) for Monitoring Traffic Light Violation. *UNIOSUN Journal of Engineering and Environmental Sciences*, Vol. 7, No. 1.,

doi: 10.36108/ujees/5202.70.0163. (ONSHORE). Available at: <https://ujees.com.ng/>

9. Fanifosi, J.O., Adedeji, W.O., **Oyelami, S.**, Abioye, A.G., Abdulmumuni, B., Adegboye, T.A., Adegbola, J.O. And Oyewo, A.T. (2025). The Development of a Dual Powered Automated Tyre Inflator: A Review. OAUSTECH Journal of Engineering and Intelligent Technology, vol 1(1), 217-227, DOI: 10.36108/ojeit/5202.10.0132. (ONSHORE). Available at: <https://journals.oaustech.edu.ng/ojeit>.
10. W.O. Adedeji, **S. Oyelami**, A.T. Oyewo, A.G Abioye, B.J. Ojerinde, A.O. Adekoya. (2025). Design and Development of a Machine Learning Based Traffic Predictions. OAUSTECH Journal of Engineering and Intelligent Technology, vol 1(1), 186-191, Doi: 10.36108/ojeit/5202.10. (ONSHORE). Available at: <https://journals.oaustech.edu.ng/ojeit>.
11. M.K. Agboola, K.A. Hassan, T.O. Ajewole, **S. Oyelami**. (2025). Enhancement of Power Quality of Microgrid-Connected Wind Energy System Using Artificial Neural Network Based Tip Speed Ratio Control. OAUSTECH Journal of Engineering and Intelligent Technology, vol 1(1), 22-30, Doi:10.36108/ojeit/5202.10.0130. (ONSHORE). Available at: <https://journals.oaustech.edu.ng/ojeit>.
12. **S. Oyelami**, A.T. Oyewo, A. Akinleye, A.G Abioye, B.J. Ojerinde, S.B. Awosika, S.A. Ajayi. (2025). Effects of processing factors on heating values of sawdust and cow dung solid fuels for heating applications. OAUSTECH Journal of Engineering and Intelligent Technology, vol 1(1), 57-64, Doi: 10.36108/ojeit/5202.10.0170. (ONSHORE). Available at: <https://journals.oaustech.edu.ng/ojeit>.
13. Olabode, O. E, Okakwu, I. K., Akinyele, D. O., Ajewole, T. O., Oyelami, S. And Olisa, O. V. (2024). Effect of Ambient Temperature and Solar Irradiance on Photovoltaic Modules' Performance. Iranica Journal of Energy & Environment, 15(4), 402- 420. Doi: 10.5829/ijee.2024.15.04.08, (OFFSHORE). Available at : [https://www.ijee.net/issue\\_24534\\_25700.html](https://www.ijee.net/issue_24534_25700.html).
14. **Oyelami, S.**, Oyewo, A. T., Oyewole, K. A., & Okedere, O. B. (2024). Effect of Haulage Vehicle Activities on Ambient Air Pollutants at a Large Haulage Vehicle Park in Nigeria. Environment, Cureus J Eng 1: e2. DOI 10.7759/2, pg 1-12, (OFFSHORE). Available at: [https://assets.cureusjournals.com/artifacts/upload/original\\_article/pdf/138/20250210-34215-w15z3q.pdf](https://assets.cureusjournals.com/artifacts/upload/original_article/pdf/138/20250210-34215-w15z3q.pdf).
15. **Seun Oyelami**, Wasiu Oyediran Adedeji, Abideen Temitayo Oyewo, Kehinde Adenike Oyewole, Busayo Sunday Adeboye, Abdulhafiz Ademola Adefajo. (2024). **Experimental Assessment of Oil Recovery from Pyrolysis Extraction**

**of Waste Plastics and Tyres.** *Unicross Journal of Engineering and Technology*, 3(2), 153 – 166. (Published by University of Cross Rivers State University). [https://www.researchgate.net/publication/379907568\\_EXPERIMENTAL\\_ASSESSMENT\\_OF\\_OIL\\_RECOVERY\\_FROM\\_PYROLYSIS\\_EXTRACTION\\_OF\\_WASTE\\_PLASTICS\\_AND\\_TYRES](https://www.researchgate.net/publication/379907568_EXPERIMENTAL_ASSESSMENT_OF_OIL_RECOVERY_FROM_PYROLYSIS_EXTRACTION_OF_WASTE_PLASTICS_AND_TYRES)

16. **Oyelami, S.,** Adedeji, W. O., Ademokoya, F. O., Oyewo, A. T., Oyewole, K. A., Ojerinde, B. J., & Olukayode, O. (2024). **Optimum proportion of starch binder and palm kernel shell hybrid additive in the formation of sawdust based composite briquette.** *Unizik Journal of Technology, Production and Mechanical Systems*, 3(1), 89-99. (Published by Faculty of Technology, Nnamdi Azikiwe university, Akwa, Nigeria). <https://journals.unizik.edu.ng/ujtpms/article/view/2997>
17. Olabode, O. E., Okakwu, I. K., Akinyele, D. O., Ajewole, T. O., **Oyelami, S.,** & Olisa, O. V. (2024). **Effect of Ambient Temperature and Solar Irradiance on Photovoltaic Modules' Performance.** *Iranica Journal of Energy and Environment*, 15(4), 402-420. (Published by Babol Noshirvani University of Technology). [https://www.ijee.net/article\\_193133.html](https://www.ijee.net/article_193133.html)
18. **S. Oyelami,** O. B. Okedere, K.A. Oyewole, K. O. Rabi, O.J. Alamu, O. Olukayode, & W. O. Adedeji (2023). **Ambient Air Emission Profiles of Polycyclic Aromatic Hydrocarbons around a Typical University Power House in Nigeria.** *Tanzania Journal of Engineering and Technology*, Vol. 42, No 3, (Published by College of Engineering, University of Dar es Salaam) [https://www.researchgate.net/publication/375519359\\_Ambient\\_Air\\_Emission\\_Profiles\\_of\\_Polycyclic\\_Aromatic\\_Hydrocarbons\\_around\\_a\\_Typical\\_University\\_Power\\_House\\_in\\_Nigeria](https://www.researchgate.net/publication/375519359_Ambient_Air_Emission_Profiles_of_Polycyclic_Aromatic_Hydrocarbons_around_a_Typical_University_Power_House_in_Nigeria)
19. **S. Oyelami,** Nurudeen A. Azeez, Abideen A. Adekanmi, Kehinde M. Adeleke, Abideen T. Oyewo, Abiola J. Adeyi (2023). **Production and characterization of biodiesel from Chlorococcum sp.: A green microalgae.** *Environmental quality management Journal*, Vol. 33, Issue 2, 387-396 [Wiley Publisher, U.S.A]. <https://onlinelibrary.wiley.com/doi/abs/10.1002/tqem.22082>
20. **S. Oyelami,** O. B. Okedere, K.A. Oyewole, K. O. Rabi, O.J. Alamu, M. Sulaimon, & S. O. Lawal (2023). **Impact of Diesel Fuel Generators on Soil Heavy Metals.** *Journal of Engineering Studies and Research*, Vol. 29, No 1, (Published by University of Bacau, Romania) <https://jesr.ub.ro/1/article/view/371>
21. Oyewole, K.A., **Oyelami, S.** Adedeji, W.O., Adegboye, R. O., and Adebajo, I. C. (2023). **Investigation of some Persistence Organic Pollutants in Soil around selected Auto- Mechanic Workshops in Osogbo.** *Journal of Engineering and Environmental Sciences*. Vol. 5, No 1, 36-42. (Published by Faculty of Engineering and Environmental Sciences) [Article 5.pdf \(ujees.com.ng\)](https://www.ujees.com.ng)

22. K.A. Oyewole, O. B. Okedere, K.O. Rabi, K.O. Alawode & **S. Oyelami** (2023). **Carbon dioxide emission, mitigation and storage technologies pathways**. *Sustainable Environment*, Vol. 9, No 1, 2188760, DOI: 10.1080/27658511.2023.2188760 (published by Taylor&Francis)  
<https://www.tandfonline.com/doi/full/10.1080/27658511.2023.2188760?scroll=top&needAccess=true>
  
23. O. B. Okedere, **S. Oyelami**, K.A. Oyewole, K. O. Rabi, H.O. Lasisi, N. Atanda, & S. Omojola, (2022). **A Comparative Investigation of the Impact of Two Different Charcoal Stove Configurations on Polycyclic Aromatic Hydrocarbons and Particulate Matter Emissions**. *Journal of Energy and Safety Technology* Vol. 5, No 1, 53-61. eISSN: 2637- 1030 (published by University of Technology Malaysia)  
<https://jest.utm.my/index.php/jest/article/view/112>
  
24. Rabi, K. O., Okedere, O. B., Oyewole, K. A., Adeboye, B. S. and **Oyelami S.** (2021). **Recent Advances in Carbon Capture, Utilisation and Storage**. *UI Journal of Civil Engineering and Technology* Vol. 3, No 2, 9-16. ISSN: 2734-3340 (published by Department of Civil Engineering, University of Ibadan)  
*Vol-3-No-2-(December-2021) Journals | UIJCET*
  
25. A. J. Adeyi, O. Adeyi, O. K. Ajayi, E. O. Oke, A. D. Ogunsola, **S. Oyelami** (2021). **Fuzzy-Logic Modelling for Quality Prediction of Smoked Tilapia (*Oreochromis niloticus*) Fish**. *Nigerian Journal of Technology (NIJOTECH)* Vol. 40, No 5, 810-816. ISSN: 2349- 2473.  
<https://www.nijotech.com/index.php/nijotech/article/view/2741>
  
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  38. Akinradewo O., Obiyemi O. and **Oyelami S**. (2018). **Performance evaluation of lighting fixtures and installation for renewable energy applications**. *Environmental quality management, Journal*, Vol. 1, Issue 8, 1-8 (published by Wiley, U.S.A) <https://doi.org/10.1002/tqem.21587>. (OFFHORE).
- (VI) Manuscript Accepted for publication: Nil
- (VII) Review Articles:
39. Oyetunji B. Okedere, Francis B. Elehinafe, **Oyelami S**, Augustine O. Ayeni (2021). **Drivers of Anthropogenic air emissions in Nigeria- A Review**. *Heliyon* 7(2021) e06398.  
<https://doi.org/10.1016/j.heliyon.2021.e06398>(published by Elsevier)
  40. **Oyelami S**, Azeez N.A, Adedigba S.A.,Akinola O.J. and Ajayi R.M.(2020). **A pynarometer for solar radiation measurement - Review**. *Adeleke University Journal of Engineering and Technology* Vol. 3, No 1, 61-68. ISSN: 2714- 2450 [www.adelekeuniversity.com/aujet](http://www.adelekeuniversity.com/aujet) (published by Faculty of Engineering and Technology).
  41. Adeniran, A. D., **Oyelami, S.**, Okedere, O. B., Adeboye, B. S., & Oyewo, A. T. (2024). Pyrolysis of Wood for Charcoal Production: A Basic Review of Existing Models. *Unizik Journal of Technology, Production and Mechanical Systems*, 4(1), 137-142. (ONSHORE). **Available at:** <https://journals.unizik.edu.ng/ujtpms/article/view/4291>.
- (VIII) Un-refereed conference proceedings:
- (IX) Refereed conference proceedings:
42. **Oyelami S.**, Kayode O. Adeniyi R. A. and Adufe J.I. (2021): **Design and construction of a mini-hydroelectric power plant**. A Proceeding of the 2<sup>nd</sup> International Conference on Engineering and Environmental Sciences (ICEES), Faculty of Engineering and Environmental Sciences, Osun State University, Osogbo, 23<sup>rd</sup> - 25<sup>th</sup> November, 2021, pp.68-74. **[Publisher: Faculties of Engineering and Environmental Sciences, Osun State University, Osogbo, Nigeria][Onshore]**.<https://ocs.uniosun.edu.ng/files/conferences/1/proceedings/ICEES2021/BookofProceedings-2ndIntlConference.pdf>.
  43. **Oyelami S.**, Azeez N.A. and Ologunye O.B. (2019): **A particle swarm Optimization (PSO) based smart grid application for optimum sizing of hybrid renewable energy system**. A Proceeding of the 1st International Conference on Engineering and Environmental Sciences (ICEES), Faculty of

Engineering and Environmental Sciences, Osun State University, Osogbo, 5th - 7<sup>th</sup> November, 2019, pp.929-939. **[Publisher: Faculties of Engineering and Environmental Sciences, Osun State University, Osogbo, Nigeria] [Onshore].** (Available in hard copy)

44. Alamu O. J, Adedeji, W.O., **Oyelami S.**, Oyewo, A.T. (2024). Review On Biogas Production from the Aspect of Different Production Conditions. 3<sup>rd</sup> International Conference on Engineering and Environmental Sciences (ICEES) 2024. (**ONSHORE**). <https://ocs.uniosun.edu.ng/files/conferences/1/proceedings/ICEES2025/BookofProceedings-2ndIntlConference.pdf>.

(X) Book reviews:

45. T.F., Oyewusi, O.A., Adeboye, B.S., **Oyelami, S.**, Babalola, R.T. (2025). Production Techniques for Bio-based Products in the Global South. In: Ogwu, M.C., Izah, S.C., Vazquez-Arenas, J.G., Feleke, S.T., Wei, X. (eds) Sustainable Bioeconomy Development in the Global South. Springer, Singapore. **https://doi.org/10.1007/978-981-96-0305-3\_3. (OFFSHORE). Available at: https://link.springer.com/chapter/10.1007/978-981-96-0305-3\_3.**

(XI) Technical Reports:

Report of Professional Engineering Experience submitted in partial fulfilment of the requirement for admission to membership of Council for the Regulation of Engineering in Nigeria (COREN) 2012.

(XII) Patents and inventions: None

(XIII) On-line journal articles: None

## **L. CURRENT RESEARCH ACTIVITIES**

(I) **Funded Research:**

Design, Fabrication and installation of Solar flood street lights, Coordinating Engineer with funding by Osun State University through SIWES Office.

**Non-Funded/ Self Sponsored Research:**

- i. Exploring Hydro-Electric Power Potential of some Municipal Waterworks in Osun State.
- ii. Design and Fabrication of a Speed Beaker Power Generator.

#### **M. CONRRERENCES ATTENDED**

1. Ist International Conference on Engineering and Environmental Sciences held at the Faculty of Engineering and Environmental sciences, Osun State University, Osogbo, Nov. 5-7, 2019.
2. 2nd International Conference on Engineering and Environmental Sciences held at the Faculty of Engineering and Environmental sciences, Osun State University, Osogbo, Nov. 23-25, 2021.
3. Nigeria Society of Engineers (NSE) Conference and Annual General meeting in Akure, Ondo State, Nov. 16-20, 2015.
4. 24th COREN Assembly, in Abuja, FCT. Aug. 10-12, 2015.
5. 17<sup>th</sup> International Conference on Energy and Environmental Engineering held at Dubai, United Arab Emirates from April 08 to 09, 2015.
6. International Conference on Sustainable and Renewable Energy Engineering held at Dubai, United Arab Emirates from October 22 to 23, 2013.
7. College of Science, Engineering and Technology Conference, held at Osun State University Osogbo, from 15-18 March, 2011.

#### **N. EXTRA-CURRICULAR ACTIVITIES:**

Reading and listening to news

#### **O. ANY OTHER RELEVANT INFORMATION:**

None

##### ***International Conference Organization:***

1<sup>st</sup> International Conference on Engineering and Environmental Sciences, Theme: advancing technology and environmental burdens: challenges and sustainable solutions. Faculty of engineering and environmental sciences, Osun State University, Osogbo, 2019, Member LOC

#### **P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE:**

My research interest is in environmental and energy studies with specific focus on renewable energy sources, energy efficiency and reducing energy waste, environmental conservation and protection, climate change mitigation and adaption strategies. I have through research discovered that human activities significantly impact the environment and energy systems, making them a crucial focus in environmental and energy studies. Human activities are a significant driver of environmental and energy-related issues, as they lead to greenhouse gas emissions, resource depletion, and ecosystem disruption. The way we live, work, and consume resources has a profound impact on the planet, from burning fossil fuels for energy and transportation to deforestation and land use changes. Our industrial processes, agricultural practices, and waste management habits also contribute to pollution, climate change, and environmental degradation. Moreover, our growing demand for energy and resources strains the planet's natural systems, highlighting the need for sustainable solutions and practices. By understanding the environmental and energy implications of human activities, we can develop strategies to mitigate negative effects, promote renewable energy sources, and foster a more sustainable future. The pursuit of energy to support human endeavors typically has a detrimental impact on the global climate, which in turn undermines efforts to achieve sustainable development goals, ultimately threatening the well-being of the planet and its inhabitants

Global concerns about public health, climate change, and sustainable development have spurred intense research into the origins, movement, and mitigation of air pollutants. While monitoring and modeling air pollution remain crucial, the focus has shifted towards developing eco-friendly energy sources, particularly bio-energy resources. To successfully integrate these alternatives into the energy landscape, it's essential to investigate their emission profiles and create reliable emission inventories. My research has encompassed both air pollution monitoring and control, as well as experiments on locally sourced bio-energy resources, aiming to promote sustainable development by reducing fossil fuel-related air pollution. I've employed a multi-faceted approach, combining field monitoring, lab experiments, emission inventories, and dispersion modeling to understand and address air pollution issues. My efforts have focused on enhancing air pollution control devices and developing bio-energy resources with reduced pollution potential, recognizing energy generation and use as primary drivers of anthropogenic air pollution. I advocate for continuous monitoring, air quality assessments, and emission inventory development to manage air pollution impacts and promote the development and utilization of bio-energy resources for a cleaner environment.

As indicated in my research focus, my study has broadened my knowledge on the global challenges posed by air pollution and mitigating strategies. My contributions to the study of Mechanical Engineering are reflected in my Forty-four (45) publications which comprise forty (40) Journal Articles, two (2) Review Articles and two (2) Refereed Conference Proceedings and one (1) Review.

OYELAMI S.



24/07/2026

**Name**

**Signature**

**Date**