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Scopus Address: <https://www.scopus.com/authid/detail.uri?authorId=57204955762>

Web of Science: <https://www.webofscience.com/wos/author/record/HMP-2516-2023>

- ❖ PLACE AND DATE OF BIRTH: Ogbomosho/ 4TH July, 1986
- ❖ HOME ADDRESS: Oloola Compound, Papa Abede, Ogbomosho.
- ❖ PHONE NUMBERS: 08033680988/08050871988
- ❖ CURRENT POSTAL ADDRESS: P. O. Box 1026, Ogbomosho, Oyo State.
- ❖ EMAIL ADDRESS: clement.ogunlade@uniosun.edu.ng
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- ❖ NATIONALITY: Nigerian
- ❖ MARITAL STATUS: Married
- ❖ NUMBER, AGES OF CHILDREN: 1 (3 years)

❖ ACADEMIC QUALIFICATIONS OBTAINED

- ✓ Doctor of Philosophy (**Ph.D.**) Agricultural and Environmental Engineering
(Post Harvest Technology/ Crop Processing and Storage Option): 8th March, 2018
- ✓ Master of Science (**M. Sc.**), Agric & Environmental Engineering:
(Post Harvest Technology/ Crop Processing and Storage Option) 1st March, 2013
- ✓ Bachelor of Technology (**B. Tech. Hons**), Agricultural Engineering: 2nd December, 2008
- ✓ National Examination Council Certificate: June, 2001
- ✓ Junior School Certificate: 1998
- ✓ Primary School Leaving Certificate: 1995

❖ EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES

- ❖ University of Ibadan, Ibadan, Nigeria : 2014- 2018
- ❖ University of Ibadan, Ibadan, Nigeria : 2011- 2013
- ❖ Ladoke Akintola University of Technology (LAUTECH): 2003-2008
- ❖ The School of Science, Ogbomosho: 1999- 2001
- ❖ Ayegun Baptist Church College, Ogbomosho: 1995-1998
- ❖ Onpetu D.C. Primary School: 1990-1995

❖ PROFESSIONAL QUALIFICATIONS OBTAINED

- ✓ Registered Engineer (Council for the Regulation of Engineering in Nigeria, COREN)
Membership Number R 42435: 22nd March, 2018
- ✓ Nigerian Society of Engineers (NSE Corporate member)
Membership Number 45441: 9th November, 2017
- ✓ Nigerian Institution of Agricultural Engineers (NIAE Corporate Member)
Membership Number M1836: 24th September, 2014

❖ STATEMENT OF WORK EXPERIENCE:

- **Teaching and Research [LECTURER 1]:** January 04, 2022 to date
Department of Agricultural Engineering, Osun State University, Osogbo, Nigeria
- **Teaching and Research [SENIOR LECTURER]:** 1st Oct., 2021 - January 3rd, 2022
Dept of Agricultural Engineering, Faculty of Engineering, Adeleke University, Ede, Osun State, Nigeria
- **Teaching and Research [LECTURER I]:** 8th March, 2018 – 8th March, 2021
Dept of Agricultural Engineering, Faculty of Engineering, Adeleke University, Ede, Osun State, Nigeria
- **Teaching and Research [LECTURER II]:** 20th March, 2017 – 7th March, 2018
Dept of Agricultural Engineering, Faculty of Engineering, Adeleke University, Ede, Osun State, Nigeria
- **Teaching and Research Assistant:** August 2016 – March, 2017
Dept of Agric and Environmental Engineering, University of Ibadan
- **Research Supervisor and Analyst:** February, 2014 : July, 2016
AOB Research Consortium, Ibadan
- **Part Time Tutor**, Francis 'M' College, Ibadan: 2013 - Oct, 2015
- **Tutor**, George Green Baptist College, Bowen University: 2011
- **Tutor**, Divine Favour College, Ogbomosho: 2011
- **Assistant Lecturer**, Federal College of Education, Abeokuta (NYSC): 2010
- **I. T**, Raw Materials Research and Development Council: 2007
- **I. T**, Construction of Earth Dam on Swampy Land: 2006

❖ STATEMENT OF RESEARCH AND FIELD EXPERIENCE:

- Construction of Earth Dam on Swampy Land for growing vegetable crops. LAUTECH SWEP: 2006
- Raw Materials Research and Development Council Grant. Cassava utilization without waste: 2007
- 2016/2017/2018/2019 (Merged)TETFund Fabrication Intervention (#1, 897, 740)

Fabrication and Development of a Semi-Automated Bioreactor for Optimum Biogas Production from Kitchen Waste Generated within Federal Polytechnic Ede.

- 2020 TETFUND NATIONAL RESEARCH FUND (NRF) GRANT.
Design and Fabrication of a Plastic Waste Interlocking Machine for Production of Interlock Paving Stones. (A 22 million naira grant nearing completion)
- 2021 TETFUND NATIONAL RESEARCH FUND (NRF) GRANT
(Two concept notes already approved and full proposals submitted)
 - i. Mechanization of Commercial Processing of Palm Oil for Food Security and Promotion of SMEs in Nigeria (A 48,490,000 naira grant nearing final approval)
 - ii. Development of a Smart Integrated Fish Pond Management System (A 15,327,000 grant nearing final approval)
- Submitted GRANT APPLICATIONS (2022)
 - i. Energetic, Exergetic and Life Cycle Assessment of Banana and Plantain Production in Nigeria. NRF TETFUND GRANT (IBR TETFUND)
 - ii. Mechanization of sugarcane production and processing using locally available materials
 - iii. Design, construction and evaluation of an automated pyrolysis and gasification plant for recycling and reusing of municipal solid wastes
 - iv. Rejuvenation of cocoa (*Theobroma cacao*) value chain in anticipatory action to reduce humanitarian and extreme impacts of weather, climate variability through concerted efforts for poverty alleviation among farmers to balance gender inequality in Nigeria

❖ **COURSES TAUGHT**

University of Ibadan, Nigeria (Teaching and Research Assistant)(August 2016 – March, 2017)

- ❖ TAE 212 – Principles of Farm Mechanization (3 Units)
- ❖ TAE 312 - Agricultural Processing and Storage I (3 Units)
- ❖ TAE 412 – Engineering Properties of Plant and Animal Materials (3 Units)
- ❖ TAE 522 – Agricultural Materials Handling (3 Units)
- ❖ TAE 513 – Agricultural Processing and Storage II (3 Units)
- ❖ TAE 599 – Undergraduate Projects (6 Units)

Adeleke University, Ede, Osun State, Nigeria (20/03/2017 – 03/01/2022)

- ❖ FOE 200- Students Work Experience Programme (SWEP I) (2 Units)
- ❖ FOE 300- Students Work Experience Programme (SWEP II) (2 Units)
- ❖ AGE 200 – Introduction to Agricultural Engineering (2 Units)
- ❖ AGE 300 – Principles of Farm Surveying (3 Units)
- ❖ AGE 312 – Processing and Storage of Agricultural Products (3 Units)
- ❖ AGE 321 – Farm Mechanisation 1 (3 units)
- ❖ AGE 331 – Engineering Statistics (3 Units)
- ❖ AGE 401 – Agricultural Machinery 1 (2 Units)
- ❖ AGE 421 – Farm Electrification (3 Units)
- ❖ AGE 431 – Farm Power 1 (2 Units)
- ❖ AGE 441 – Farm Structures and Environmental Control (3 Units)
- ❖ AGE 461 - Food and Agricultural Biotechnology (3 units)
- ❖ AGE 500 - Design and Analysis of Storage System (2 Units)
- ❖ AGE 502 - Agricultural Machinery II (2 units)
- ❖ AGE 504 - Renewable Energy Engineering (2 Units)
- ❖ AGE 506 - Bioprocess Engineering (2 units)
- ❖ AGE 521 - Inventions and Patents (3 Units)
- ❖ AGE 531 - Operation and Management of Farm Power and Machinery System (2 Units)
- ❖ AGE 541 - Design of Agricultural Machinery (2 Units)
- ❖ AGE 572 - Solar Energy Application to Processing and Storage (2 Units)
- ❖ AGE 582 - Food Engineering (2 units)
- ❖ AGE 591 - Assigned Project I (3 Units)
- ❖ AGE 592 - Assigned Project 2 (3 Units)

Osun State University, Osoqbo

- ❖ ABE 202 - Basic Agriculture and Bio-Resources Engineering (2 Units)
- ❖ ABE 302 - Basic agricultural soil mechanics (2 Units)
- ❖ ABE 303 - Farm Electrification (2 Units)
- ❖ ABE 304 - Computer aided design and machine drawing (2 Units)
- ❖ ABE 306 - Agricultural land surveying (2 Units)
- ❖ ABE 307 - Biotechnology and bio-resources studies (1 Unit)
- ❖ AGN 406 - Techniques in soil and water management (2 Units)
- ❖ AGN 409 - Farm design, survey and land use planning (2 Units)

❖ AWARDS, PRIZES, SCHOLARSHIPS AND HONOURS

- **Best Lecturer Award:** 2020/2021 academic session in the Department of Agricultural Engineering, Faculty of Engineering, Adeleke University by NUESA [Nigerian Universities Engineering Students Association]:
29th April, 2021
- **Best Lecturer Award:** 2019/2020 academic session in the Department of Agricultural Engineering, Faculty of Engineering, Adeleke University by NUESA [Nigerian Universities Engineering Students Association]:
12th March, 2020
- **Researcher with Most Impactful Publications,** Adeleke University Research Award, First Runner-Up, 2018/2019 Academic Session: August 29th, 2019
- **Most Published Researcher,** Adeleke University Research Award, Second Runner-Up, 2018/2019 Academic Session: August 29th, 2019
- **Best Lecturer Award 2018/2019** Academic Session in the Department of Agricultural Engineering, Faculty of Engineering, Adeleke University by NUESA [Nigerian Universities Engineering Students Association]: 11th April, 2019
- **Best Lecturer Award 2017/2018** Academic Session in the Department of Agricultural Engineering, Faculty of Engineering, Adeleke University by NUESA [Nigerian Universities Engineering Students Association]: 12th April, 2018
- **Teaching and Research Assistant,** Postgraduate School Scholarship Award, University of Ibadan
Aug., 2016 – Mar., 2017



❖ RESEARCH PUBLICATIONS WITH DATES:

Thesis and Dissertations

1. Optimisation and characterisation of mechanically expressed oil from African oil bean (*Pentaclethra macrophylla* Benth) kernels. Ph D Thesis, Department of Agricultural and Environmental Engineering, University of Ibadan, Ibadan, Nigeria. March, 2018
2. Development and Evaluation of an extractor for removing oil from soaked kenaf (*Hibiscus cannabinus*) bast and core. M Sc Project, Department of Agricultural and Environmental Engineering, University of Ibadan, Ibadan, Nigeria. March, 2013
3. Design, Construction and Evaluation of a cassava Dewatering Machine. B. Tech Project. Department of Agricultural Engineering, Ladoke Akintola University of Technology, Ogbomoso. November, 2008

Conference Proceedings

- 1) **Ogunlade, C. A.** (2021). Latest Trend in Extraction of Oil From Oleaginous Biomaterials. HUMBOLDT – KOLLEG OGBOMOSO 2020. Achieving the Sustainable Development Goals: Related Research Outcomes. Held at Ladoke Akintola University of Technology, LAUTECH, Ogbomoso on 29th June, 2021 to 2nd July, 2021.
- 2) **Ogunlade, C. A.,** Oladimeji, S. T., Akinyele, O. A., Ajekiigbe, D. A. and Abolarin, O. J. (2019). Performance Evaluation of a Cassava Starch Sieving Machine. Proceedings of the 40th Annual General Meeting and 20th International Conference of the Nigerian Institution of Agricultural Engineers (NIAE OMUARAN 2019) held at Landmark University, Omu-Aran, Kwara State, Nigeria, 16-20th, September, 2019. Pp 188-194. ISBN 978-978-973-233-3
- 3) **Ogunlade, C. A.** and Oke, A. M., Jekayinfa S. O. and Oloyede, C. T. (2018). Influence of Moisture Content on Some Engineering Properties of Chicken Feathers. *Proceedings of the 2018 Annual Conference of the*

School of Engineering and Engineering Technology (SEET). Federal University of Technology, Akure, July 17th to 19th, 2018.

- 4) **Ogunlade, C. A.**, Akinyele, O. A., Oladimeji, S. T. and Oladipo, O. O. (2018). Renewable Energy Usage for Agricultural Production: A Review. Proceedings of the 39TH Annual General Meeting and 19th International Conference of the Nigerian Institution of Agricultural Engineers (NIAE EKO 2018) held at the Federal Institute of Industrial Research, Oshodi, Lagos, Nigeria, 10 -14th, September, 2018. PAPER: NIAE/ EKO/ C003, PP: 58-69
- 5) Jekayinfa, S. O., Pecenka, R., Jaiyeoba, K. F., **Ogunlade, C. A.** and Oni, O. (2018). Life cycle assessment of local rice production and processing in Nigeria. The Proceedings 12th CIGR Section VI International Symposium, 617 – 633, held at International Institute of Tropical Agriculture (IITA), Ibadan between 22 –25 October, 2018, 617 – 633.
- 6) Lamidi, N. A., Muili, M. A. and **Ogunlade, C. A.** (2016). Strength properties and crack pattern of waste rattan fibre reinforced clay bricks. *Proceedings of the 2016 Annual Conference of the School of Engineering and Engineering Technology (SEET). Federal University of Technology, Akure, August 16th to 19th, 2016.*
- 7) Aremu, A. K., Raji, A. O. and **Ogunlade, C. A.** (2015). Physical and Combustion characteristics of kenaf bast and core briquettes. Proceedings of Faculty of Technology International Conference, Obafemi Awolowo University OAUTEKCONF 2015. September 20-25, 2015. Pp 051-054
- 8) Aremu, A. K., **Ogunlade, C. A.** (2014). Development of a Manually Operated Mango Dicing Machine. *Proceedings of the Nigerian Institution of Agricultural Engineers, 35th International Conference and Annual General Meeting.* Pp 823-831. FUTA, AKURE
- 9) Aremu, A. K., Aikomo, O. D. and **Ogunlade, C. A.** (2014). Thermal properties of African oil bean (*Pentaclethra macrophylla* Benth) seeds and kernels. *Proceedings of the Third International Conference on Engineering and Technology Research August 5 - 7, 2014 ISBN: 978-2902-58-6 Volume 3: 1-10.* LAUTECH, OGBOMOSO
- 10) **Ogunlade, C. A.**, Aremu, D. O., Babajide, N. A. and Akinyele, A. O. (2014). Design, Fabrication and Performance Evaluation of a Power (Motorised) Maize Shelling Machine. *Proceedings of the Third International Conference on Engineering and Technology Research August 5 - 7, 2014 ISBN: 978-2902-58-6 Volume 3: 1-10.* LAUTECH, OGBOMOSO

Journal Publications

- 11) Emina Dervišević, Francesco Sessa, Aida Branković, Emina Karahmet Sher, Clement Ogunlade, Emma Pinjic 2026. Chapter 10 - Preserving biodiversity in achieving net zero. <https://doi.org/10.1016/B978-0-443-44454-8.00010-8>
- 12) Clement Adesoji Ogunlade, Ademola Kabir Aremu, Rahman Akinoso (2026). Integrated soft computing approach in modelling and optimising mechanical oil expression from pentaclethra macrophylla benth kernels. Soft Computing, MATHEMATICAL METHODS IN DATA SCIENCE <https://doi.org/10.1007/s00500-026-11373-0>
- 13) **Oseni Kehinde Owolarafe, Olumide Babatope Falana, Titilope Modupe Olagunju, Lynda Bamidele, Akintayo Azeez Atoyebi, Clement A. Ogunlade (2025). Study on the Drying Characteristics of Fermented Locust Bean Seeds: Effect on Proximate Composition. Eurasian Journal of Food Science and Technology 2025; Vol: 9, Issue: 2, pp: 53-68**
- 14) Wasiu O. Adedegbe, Clement A. Ogunlade, Toyese F. Oyewusi, Seun Oyelami, Oriyomi O. Adetayo, Williams A. Adetola. (2026). EFFECT OF LOAD AND OPERATIONAL TIME ON THE PERFORMANCE OF LITHIUM-ION BATTERIES. Uniosun Journal of Engineering and Environmental Sciences (UJEES), Vol. 8 No. 3, 14 – 23. DOI: 10.64980/ujees.v8i1.002
- 15) **Adeboye, B. S., Ogunlade, C. A., Adeduntan, A. S. and Oyewo A. T. 2025. Comparative Analysis of Engine Efficiency and Emission Using Premium Motor Spirit (PMS) and Liquefied Petroleum Gas (LPG) in Spark Ignition Engines. UNIOSUN Journal of Engineering and Environmental Sciences. Vol. 7 No. 1, 59 – 68. DOI: 10.36108/ujees/5202.70.0160**

- 16) Oyefeso, B. O., Akwunwa, I. J., Ajayi, P. E., Akintola, A., Fadele, O. K., & Ogunlade, C. A. (2025). Development of Predictive Mass and Volume Models for African Star Apple Fruits. *African Journal of Agricultural Science and Food Research*, 19(1), 342-352. <https://doi.org/10.62154/ajasfr.2025.019.01030>
- 17) Oyefeso, B. O., Aremu, A. K., Fasiku, V. O. and **Ogunlade, C. A. (2025)**. Development of a Passive Hybrid Solar Dryer for Cocoa Bean. *Journal of Agricultural Mechanization (AGRIMECH)*, Volume V., 66 – 79. <https://journal.agrimechjournal.ng/index.php/agrimech/article/view/12/7>.
- 18) Oyefeso, B. O., Akwunwa, I. J., Ajayi, P. E., Akintola, A., Fadele, O. K., & **Ogunlade, C. A. (2025)**. Development of Predictive Mass and Volume Models for African Star Apple Fruits. *African Journal of Agricultural Science and Food Research*, 19(1), 342-352. <https://doi.org/10.62154/ajasfr.2025.019.01030>
- 19) **Ogunlade, C.A.**, Olaniyan, A.R., Babalola, R.T., Oyefeso, B.O., Jaiyeoba, K.F. (2025). Processing 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_2. Pp 39 – 65
- 20) Olaniyan, A.R., **Ogunlade, C.A.**, Babalola, R.T., Akingbade, T.O. (2025). Bio-Based Industries and Their 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_6. Pp 159 – 184
- 21) Babalola, R.T., **Ogunlade, C.A.**, Olaniyan, A.R., Famuwagun, A.A., Akindele, O.O., Adejuwon, W.O. (2025). Sustainable Food and Feed Production Techniques 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_12. Pp 324 - 354
- 22) **Ogunlade, C. A.**, A. R. Olaniyan, and R. T. Babalola (2024). Nutrient Retention Techniques for Food System Transformation in the Global South. Chapter 20 in: Food Safety and Quality in the Global South. Springer Science. ISBN 978-981-97-2427-7 ISBN 978-981-97-2428-4 (eBook <https://doi.org/10.1007/978-981-97-2428-4>)
- 23) Alaka, A. C. and **Ogunlade, C. A. (2024)**. Enhancing Food Safety and Quality Through Sustainable Food Production and Consumption Practices in the Global South. Chapter 3 in: Food Safety and Quality in the Global South. Springer Science. ISBN 978-981-97-2427-7 ISBN 978-981-97-2428-4 (eBook <https://doi.org/10.1007/978-981-97-2428-4>)
- 24) Oyefeso, B. O., Ogunrinde, J. A. and **Ogunlade, C. A. (2024)**. Effect of Different Drying Methods on Selected Quality Attributes of Okra (*Abelmoschus esculentus* L.). *FUOYE Journal of Engineering and Technology*, 9 (2): 11 – 21. (Onshore)
- 25) Lawal, M.O., **Ogunlade, C.A.** and Atanda, K.T. (2023). Development and Evaluation of a Locally Designed Solar Integrated Egg Incubator. *UNIOSUN Journal of Engineering and Environmental Sciences*, 5 (1): 140 – 149. DOI: 10.36108/ujees/3202.50.0121. https://ujees.com.ng/publication/vol_5/issue_1/Article_12.pdf.
- 26) **Ogunlade, C. A.**, Jekayinfa, S. O., Oyedele, O. J., Olajire, A. S. and Oladipo, A. O. (2023). Drying parameters of wild lettuce (*Lactuca taraxaxifolia* L) affected by different drying methods. *Croat. J. Food Sci. Technol.* (2023) 15 (1): 1-8
- 27) Lamidi, W. A., Ogunlade, C. A., Olaniyan, A. R., Shittu, K. A., Murtadha, M. A., Ajibade, A. F., & Fadeyibi, A. (2023). Moisture Dependent: Physical Properties of Baobab Seeds (*Adansonia digitata* L.). *Agricultural Engineering*, 27, 33-46. <https://doi.org/10.2478/agriceng-2023-0003>
- 28) **Ogunlade, C. A.**, Jekayinfa, S.O. and Olaniyi, B. A. (2022). Some fuel properties of biodiesel produced from *Vitellaria paradoxa* and *Elaeis guineensis* oil. *AgricEngInt: CIGR Journal*, 24 (4): 90 – 100. Open access at <https://cigrjournal.org/index.php/Ejournal/article/view/5672/3951>
- 29) Jekayinfa, S. O., Adeleke, K. M., **Ogunlade, C. A.**, Sasanya, B.F., Azeez, N.A. (2022). Energy and exergy analysis of Soybean production and processing system, *Cleaner Engineering and Technology* (2022), doi: <https://doi.org/10.1016/j.clet.2022.100540>. <https://www.sciencedirect.com/science/article/pii/S2666790822001458#!> (Elsevier)
- 30) Jaiyeoba, K. F., **Ogunlade, C. A.**, Oyetunji, O. O. and Lukman, B. O. (2022). Modification, Automation, and Evaluation of Solar Dryer. *Adeleke University Journal of Engineering and Technology [AUJET]* Vol. 5, No1, 103 – 113. <https://aujet.adelekeuniversity.edu.ng/index.php/aujet/article/view/277/197>.
- 31) Folarin, D. A., Azeez, N. A., Hassan, K. A., **Ogunlade, C. A.** And Adeleke, K. M (2022). Performance Evaluation of a Bio-Digester in Anaerobic Production of Biogas from Kitchen Wastes. *University of Ibadan Journal of Civil Engineering and Technology*, 4 (1): 8 -13. [https://www.uijcet.com/journal.php?id=6&c=Vol-4-No-1-\(June-2022\)&tp=Current%20Issue](https://www.uijcet.com/journal.php?id=6&c=Vol-4-No-1-(June-2022)&tp=Current%20Issue)
- 32) Oyefeso, B. O., Ayorinde, M. O., **Ogunlade, C. A.**, Fadele, O. K. and Akintola, A. (2022). Effect of Blanching Period and Drying Temperature on Selected Physicochemical Properties of Cocoyam

- (*Xanthosoma sagittifolium*) Flour. Agricultural and Food Science Journal of Ghana, 14: 1457 – 1467. <https://dx.doi.org/10.4314/afsjg.v14i1.10>
- 33) Akintunde, A. A., Aremu, A. K. and **Ogunlade, C. A.** (2022). Effect of storage period and relative humidity on the quality of moringa oil. Croatia Journal of Food Science and Technology, 14 (1): 74 – 81. DOI: 10.17508/CJFST.2022.14.1.08. Available online at <http://www.ptfos.unios.hr/novicjfst/index.php/2022/07/08/croat-j-food-sci-technol-2022-14-1/>
 - 34) Balogun, Abdu-Lateef, Jekayinfa, S. O., Olajide, J. O., Ola, F. A. and **Ogunlade, C. A.** (2021). Development and evaluation of a combined castor seeds roaster-oil expeller. Innovative Systems Design and Engineering, 12 (2): 47 – 60. DOI: 10.7176/ISDE/12-2-06
 - 35) Ogunlade, C. A. and Aremu, A. K. (2021). Cultural and Improved ways of extracting vegetable oils from oleaginous biomaterials: A Review. Chapter 3 in Food, Technology and Culture in Africa, pages 100-145. Published by Reamsworth Publishing Limited, SW 40, Labi Area, Ibadan-Ilorin Expressway, Moniya, Ibadan.
 - 36) **Ogunlade, C. A.** and Aremu, A. K. (2021). Energy Consumption Pattern as affected by Machine Operating Parameters in Mechanically expressing oil from *Pentaclethra macrophylla*: Modeling and Optimization. Cleaner Engineering and Technology, 5: 100300 Elsevier. <https://doi.org/10.1016/j.clet.2021.100300> and <https://www.sciencedirect.com/science/article/pii/S2666790821002603?via%3Dihub>
 - 37) Audu, J., Aremu, A. K. and **Ogunlade, C. A.** (2021). Development of discriminant models for automatic identification and classification of Sorghum varieties using its optical properties. Agricultural Science: An International journal (AGRIJ), 1 (1); 43 – 60. <https://www.airccse.com/agrij/papers/1121agrij02.pdf>
 - 38) Tulagha, I., Jaiyeoba, K. F., **Ogunlade, C. A.**, Azeez, N. A. and Adedigba, S. A. (2021). Energy consumption in Processing and Production of Pap (*ogi*) in Nigeria. Premier Journal of Engineering and Applied Sciences (PJEAS), A quarterly publication of the Nigerian Society of Engineers, Ibadan Branch, 2 (2). Accepted for publication on the 4th April, 2021.
 - 39) Famurewa, J. A. V., Jaiyeoba, K. F., **Ogunlade, C. A.** and Ayeni, O. B. (2021). Effect of extraction methods on yield and quality characteristics of coconut (*Coco nucifera* L) oil. AgricEngInt: CIGR Journal Open access at <http://www.cigrjournal.org>, 23 (3): 251 – 260. <https://cigrjournal.org/index.php/Ejournal/article/view/6679/3707>
 - 40) Fadele, O., Amusan, T., Afolabi, A. and Ogunlade, C. A. (2021). Characterization of briquettes from forest wastes: optimization approach. Article in press: Research in Agricultural Engineering, Czech Academy of Agricultural Sciences. https://www.agriculturejournals.cz/web/rae.htm?type=article&id=6_2021-RAE
 - 41) Oyefeso, B. O., Akintola, A., Afolabi, M. G., Ogunlade, C. A., Fadele, O. K. and Odeniyi, O. M. (2021). Influence of moisture content and speed on cutting force and energy of tannia cormels. Article in press: Research in Agricultural Engineering, Czech Academy of Agricultural Sciences, https://www.agriculturejournals.cz/web/rae.htm?type=article&id=79_2020-RAE doi: 10.17221/6/2021-RAE
 - 42) Audu J., Aremu, A. K. and **Ogunlade, C. A.** (2021). Development of a neural network model for and identifying bulk cowpea seeds variety using its electrical properties. LAUTECH Journal of Engineering and Technology, 14 (2): 65-79
 - 43) **Ogunlade, C. A.** and Aremu, A. K. (2020). Modeling and optimisation of oil recovery and throughput capacity in mechanically expressing oil from African oil bean (*Pentaclethra macrophylla* Benth) kernels. Journal of Food Science and Technology, Springer Science. 57: 4022 – 4031. <https://doi.org/10.1007/s13197-020-04435-0> <http://link.springer.com/article/10.1007/s13197-020-04435-0>
 - 44) **Ogunlade, C. A.**, S. O. Jekayinfa, J. A. Olaniran, and A. O. Adebayo. (2020). Energy life-cycle assessment and economic analysis of sweet orange production in Nigeria. Agricultural Engineering International: CIGR Journal, 22(2): 123 – 132. <https://cigrjournal.org/index.php/Ejournal/article/view/5600>
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Papers Under Review

- ❖ Ergonomics evaluation of a Cassava starch sieving machine (CIGR: Agricultural Engineering Journal)
- ❖ Effect of Pre-treatment on Quality Attributes of Vegetable Oil expressed Mechanically from *Pentaclethra macrophylla* Benth Kernels: A Response Surface Approach: *Journal of Bio-systems engineering: Springer science*
- ❖ Harnessing the benefits of agricultural waste: bioproducts and technologies (John Wiley)

❖ CONFERENCES AND WORKSHOPS ATTENDED

Conferences

- a. *Nigerian Institution of Agricultural Engineers, 35th International Conference and Annual General Meeting*. Pp 823-831. FUTA, AKURE (2014).
Paper read: Development of a Manually Operated Mango Dicing Machine
- b. *Third International Conference on Engineering and Technology Research August 5 - 7, 2014 ISBN: 978-2902-58-6 Volume 3: 1-10*. LAUTECH, OGBOMOSO
Paper Read: 1) Thermal properties of African oil bean (*Pentaclethra macrophylla* Benth) seeds and kernels
2). Design, Fabrication and Performance Evaluation of a Power (Motorised) Maize Shelling Machine.
- c. Faculty of Technology International Conference, Obafemi Awolowo University OAUTEKCONF 2015. September 20-25, 2015. Pp 051-054
Paper Read: Physical and Combustion characteristics of kenaf bast and core briquettes.
- d. *2016 Annual Conference of the School of Engineering and Engineering Technology (SEET)*. Federal University of Technology, Akure, August 16th to 19th, 2016.
Paper read: Strength properties and crack pattern of waste rattan fibre reinforced clay bricks.
- e. *2018 Annual Conference of the School of Engineering and Engineering Technology (SEET)*. Federal University of Technology, Akure, July 17th to 19th, 2018.
Paper read: Influence of Moisture Content on Some Engineering Properties of Chicken Feathers
- f. The 2018 International Conference of the Nigerian Institution of Agricultural Engineers (NIAE EKO 2018) held at the Federal Institute of Industrial Research, Oshodi, Lagos, Nigeria, 10 -14th, September, 2018
Paper Read: Renewable Energy Usage for Agricultural Production: A Review
- g. International Commission of Agricultural and Biosystems Engineering Commission International du Genie Rural 12TH CIGR SECTION VI INTERNATIONAL SYMPOSIUM (Postharvest Technology & Bioprocess Engineering) THEME: Innovations and Technologies for Sustainable Agricultural Production and Food Sufficiency. Held at International Institute for Tropical Agriculture (IITA), Ibadan, Nigeria Monday 22 – Thursday 25 October, 2018
Paper Read: Life cycle assessment of local rice production and processing in Nigeria. The proceedings 12th CIGR Section VI International Symposium 22 –25 October, 2018
- h. The 40th Annual General Meeting and 20th International Conference of the Nigerian Institution of Agricultural Engineers (NIAE OMUARAN 2019) held at Landmark University, Omu-Aran, Kwara State, Nigeria, 16-20th, September, 2019. Pp 188-194.
Paper Read: Performance Evaluation of a Cassava Starch Sieving Machine.
- i. HUMBOLDT – KOLLEG OGBOMOSO 2020. Achieving the Sustainable Development Goals: Related Research Outcomes. Held at Ladoke Akintola University of Technology, LAUTECH, Ogbomoso on 29th June, 2021 to 2nd July, 2021.
- ii. NIAE South West Regional Conference 2023 Team: Innovations in Agricultural Engineering: Solutions to Food, Energy and Economic Challenges in Nigeria. Organised by Nigerian Institution of Agricultural Engineers (NIAE) South West Region, 30th to 31st August 2023 at the University of Ibadan, Ibadan, Nigeria.

Workshops

- j. 3-day Mandatory Continuing Professional Education Course for Prospective Corporate Members. 9th-11th August, 2017. NSE secretariat Ibadan
- k. 2-day NSE Ogbomoso Mandatory Continuing Professional Education for Prospective Corporate Members, LAUTECH. 18th August, 2017
- l. Faculty Training on Outcome Based Engineering Education. June, 2022

❖ RESEARCH FOCUS

My research works focused on Processing and Storage of Biomaterials (post-harvest technology) targeted mainly at reduction of post-harvest losses. This has been achieved so far through quality research works cutting across cleaning, grading and sorting of crops; drying and dehydration of biomaterials; development and evaluations of post-harvest/processing machines, process optimization and modeling of various unit operations in food processing, storage and general post-harvest handling and conversion of agricultural and bio wastes to wealth. This is evident in some of the papers published in referred journals or conference proceedings.

The study on cleaning, grading and sorting of crops focused on classification of biomaterials based on sizes, quality, texture etc for both commercial and research purposes using image processing and artificial intelligence. Research works on drying and dehydration of biomaterials include studies on different drying characteristics, rates and behaviours of crops under varying degrees of temperature, moisture loss and its effect on biomaterials, and the use of solar energy for drying biomaterials. The development and evaluations of post-harvest/processing machines include determination of engineering properties of bio-materials prior to design of processing machines, evaluation of processing machines in terms of efficiency, capacity, performance and ergonomic adequacy. The process optimization and modeling of various unit operations in food processing, storage and general post-harvest handling include determination of optimum processing conditions for food products, food machinery and processing equipment. The conversion of agricultural and bio wastes to wealth include production of bio products (like bio diesel, bio gas and bio char) and other useful materials from waste products.

REFEREES

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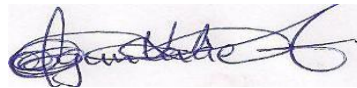
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