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Nigeria
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Scientific Links

LIVE DNA: 234.7991

Research ID: M-8050-2013

ORCID:0000-0002-2968-8676

Scopus ID: 55935714300

Web of Science
ResearcherIDJNS- I428-2023

LinkedIn:
<https://www.linkedin.com/in/moses-emeterere-2076173a/>

Research Gate:
<https://www.researchgate.net/profile/Moses-Emeterere>

Google
Scholar:<https://scholar.google.com/citations?user=NDcEsQsAAAAJ&hl=en>

Moses Eterigho Emeterere PhD

Professor of Physics

Renewable Energy & Environmental Expert

World's Top 2% Scientist by Stanford University/Elsevier, 2022, 2025

Top 50 Nigerian Scientists by Scival, 2016-2026

Professional Profile

Experienced Research Scientist and Professor of Physics with over 22 years of teaching, research, and interdisciplinary scientific leadership experience in renewable energy systems, environmental modeling, computational physics, energy materials, atmospheric science, and remote sensing. Demonstrated expertise in multidisciplinary scientific investigations, advanced numerical modeling, climate-energy systems, geothermal and hydrogen exploration, and sustainable technology development. Author of over 500 peer-reviewed scientific publications, multiple books, and recipient of international research grants and awards. Experienced in supervising graduate researchers, leading collaborative international projects, and conducting industry-focused scientific consultancy.

Education

- **PhD, Industrial Physics** | Covenant University, Nigeria | **2017**
- **PhD, Solid State Physics** | Federal University of Technology Minna, Nigeria | **2016**
- **PGD, Education** | University of Maiduguri, Nigeria | **2012**
- **M.Tech., Solid State Physics** | Federal University of Technology Minna, Nigeria | **2011**
- **B.Tech., Pure & Applied Physics** | Ladoke Akintola University of Technology, Nigeria | **2001**

Key Skills

- Coding in Python, C++ and C
- Coding in MATLAB, Origin, FreeMAT, and Maple
- Renewable energy exploration using remote sensing and field measurements
- Renewable energy system design
- Laboratory material synthesis
- Data analytics: Image processing
- Data analytics: Numericals
- Data analytics: Social science research
- Remote Sensing and GIS Applications
- Computational Physics and Numerical Modeling
- Machine and deep learning protocols
- Climate Change and Environmental Monitoring
- Big Data Analytics for Environmental Systems
- Scientific Computing and AI-assisted Modeling
- Solar Energy and Perovskite Materials optimization
- Engineering design
- Multidisciplinary research

Marital Status

Married

Nationality

Nigerian

Permanent Address

No. 26, Ile-Salifiya Street,
Kobaope, Osun State,
Nigeria

Website

<https://bowen.edu.ng/moses-emetere/>

- Mathematical modelling
- Profecient in the use of over 60 scientific softwares
- Research Mentorship
- Grantsmanship

Work Experience

Ikogosi High School	Teacher	2002-2003
Abuja International Academy	Teacher	2003-2007
Stella Maris College	Teacher	2007-2013
Covenant University	Lecturer	2013-2022
University of Johannesburg.	Senior Research Associate	2018-2022
Trinity University	Visiting Associate Professor	2019
Bowen University	Professor	2022-TD
University of Johannesburg.	Visiting Professor	2023-TD

Work Exposure

International Center for Theoretical Physics (ICTP)	Sponsored Visit	2013/2014
Elettra Sinrotrone Treistee	Sponsored Visit.	2013
Berkely Lab, University of California	Sponsored Visit.	2016
University of Johannesburg	Postdoctoral Fellowship	2017-2018
European Synchrotron Facility	Research Visit	2017
MAMI, University of Gotternburg.	Research Visit	2017
Tandem Accelerator, Universite De Montreal	Sponsored Visit	2025

Consultancy

- National Mathematical Center| Nigerian Army, Division 2| Education Consultant| 2015
- Luxi Polymetal Company| Gurara Energy Project| Energy Consultant| 2021
- ZKJ Energies Ltd| Nigerian National Petroleum Company Limited (Renewable Energy Division) capacity building training| Consultant|2022
- National Research Foundation, South Africa| Professorial Assessment| Assessor| 2023
- Federal University of Technology Akure| Postgraduate Assessment| External Examiner| 2025
- Lagos State University| Professorial Assessment| Assessor | 2025
- National Research Foundation, South Africa| Professorial Assessment| Assessor | 2026
- University of Pretoria, South Africa| Professorial Assessment| Assessor | 2026
- National Environmental Standards and Regulations Enforcement Agency (NESREA)| Environmental Monitoring Project| Environmental Consultant| 2026
- Federal University of Technology Akure| Postgraduate Assessment| External Examiner| 2026
- Lagos State University | Postgraduate Assessment| External Examiner| 2026
-

Google Scholar Records

Number of Papers
503

Citations
4154

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28

i10-index
100

Academic Linkages

- Member, International Society of Learning Sciences
- Member, Nigerian Institute of Physics (NIP/OM/25/140)
- Member, Asian Council of Science Editors
- Member, Institute of Physics (Membership ID: 80431657)
- Member, African Sustainable Energy Association
- Member, African Materials Research Society (Membership ID: AMRS681)
- Professional member, Quvae Research and Publications
- Fellow, International Association of Advanced Materials (FIAAM/FL-943/03-26)
- Publishing Committee Member, International Association of Applied Science and Technology

Leadership

Academic Level Adviser	2013-2015
Member, Resumption Committee	2013-2015
Coordinator, Welfare Committee	2015-2016
Member, Resumption Committee	2018
Member, College Research & Publication Committee	2019-2021
Coordinator, Departmental Seminar	2018-2019
Ag HOD, Physics & Electronics Dept., Trinity University	2019
Member, ACE Grant Committee	2018
Sub-Head, Renewable Energy and Material Science	2021
Coordinator, Research & Publication Committee	2021
College Chair, Research & Publication Committee	2021
Member, College Curriculum Committee	2021-2022
Member, Research Ethical Committee, CUCRID	2018-2021
Departmental Coordinator, Postgraduate Committee	2020-2022
Member, College Postgraduate Committee	2019-2021
College Chair, Postgraduate Committee	2022-2022
Departmental Chair, Curriculum Committee	2022-2022
Member, School of Postgraduate School Admission Committee	2022
Member, School of Postgraduate School Board	2022
Member, School of Postgraduate School Curriculum Committee	2022
Head of Programme, Physics	2022-2024
Member, University Senate	2022-TD
SDG 3 & 7 Coordinator, Bowen University	2022-2024
Member, Ethics committee	2022-2024
Member, University Promotion Review Committee	2022-2023
Chair, College Grants Committee	2022-2024
Chair, College think-tank	2022-2024
Member, Senate Committee on Curriculum Harmonization	2024
Member, Senate Committee on Honourary Award	2025
Member, Senate Committee on Admission Review	2025
Member, Senate Ad-hoc Committee on Result Investigation.	2026
Academic Consult, Human Resources on Promotion.	2024-2025
Coordinator, Cluster for Clean Energy and Climate Change.	2025

SCOPUS Records

Number of Papers
395

Citations
2052

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20

FWCI
0.71

Scholarship

- Travel grant to ICTP, Trieste-Italy, To attend conference on International Conference on Photophysics and Photochemistry, India 2026
- Life Fellow, International Association of Advanced Materials, 2026
- CeProd Fellow nomination, the Council of Centre for Public Service Productivity and Development, 2026
- World's Top 2% Scientist, Stanford University & Elsevier rankings 2022, 2025
- Top 500 Nigerian authors. Scival ranking 2016-2026
- "Best Researcher Award" nomination, Analytical Chemistry Awards 2025
- "Best Researcher Award" nomination, International Research Award and Honors 2025
- Keynote Speaker, 9th International Conference on Environment and Disasters (ICED), China, 2025
- "Best Researcher Award" nomination, PPT Awards, 2024
- Keynote Speaker, Annual International Congress on Renewable Energy, United Kingdom, 2024
- "Best Researcher Award" nomination, International Popular Scientist Awards 2023
- MISR Science Team invitation to attend meeting, 2023
- Research output and quality and volume of research output in UJ GES 4.0 Scheme, University of Johannesburg, South Africa 2020
- Chancellors Award for Exceptional Researcher, Awarded for quality and volume of research output in Covenant University, Nigeria 2019
- Research output and quality and volume of research output in UJ GES 4.0 Scheme, University of Johannesburg, South Africa 2019
- Chancellors Award for Exceptional Researcher, Awarded for quality and volume of research output in Covenant University, Nigeria 2018
- Chancellors Award for Exceptional Researcher, Awarded for quality and volume of research output in Covenant University, Nigeria 2017
- Covenant University travel grant, to attend conferences in Malaysia, United Kingdom, United State of America, 2015-2016
- AU Recommendation to attend Lindau Noble Laureate Meetings 2016
- AU/TWAS Young Scientist National Award, Awarded by African Union and The World Academy of Science for significant research contribution 2015
- Excellence award, Awarded by Science -Tech Week, Covenant University. 2015
- Excellence award, Awarded by Science -Tech Week, Covenant University. 2014
- Travel grant to ICTP, Trieste-Italy, awarded by UNESCO to attend conference on Ultrafast Dynamics of Correlated Materials, ICTP Trieste, Italy 2013
- Outstanding Teaching Award, awarded by Stella Maris College for the high pass rate of students who sat for physics at the West African Examination Council. 2012
- NYSC State Directors Award, Awarded by National Youth Service Scheme (NYSC) for outstanding community project 2003

SDG RECORDS BY SCOPUS

SDG 1

4 Articles

SDG 2

4 Articles

SDG 3

47 Articles

SDG 4

1 Article

SDG 6

15 Articles

SDG 7

104 Articles

SDG 8

13 Articles

SDG 9

38 Articles

SDG 11

18 Articles

SDG 12

9 Articles

SDG 13

26 Articles

SDG 14

4 Articles

SDG 15

2 Articles

SDG 16

1 Article

SDG 17

3 Articles

Editorials

- Chief Editor, NCCECC Proceedings, 2026
- Guest Editor, Current Materials Science, 2026
- Guest Editor, Energy Engineering, 2026
- Associate Editor, International Journal on Sustainable Innovation and Research (ABUAD) 2025-2026
- Editorial Board Member, Conscientia Beam Journals, 2023-2026
- Reviewer, 5 Elsevier based journals. 2016-2025
- Reviewer, 3 Springer based journals. 2016-2025
- Reviewer, 2 Wiley based journals. 2016-2025
- Reviewer, 32 IOP conferences 2016-2025
- Reviewer, 4 Scopus-oulets journal. 2016-2025
- Publishing Committee Member, International Association of Applied Science and Technology. 2021-2025
- Editor in Chief, ICESE-2020 (Indexed on IOP) 2020
- Co- Editor, ICSSD-2020 (Indexed on IOP) 2020
- Member, Research Committee, Covenant University 2019
- Editor in Chief, ICESE-2019 (Indexed on IOP) 2019
- Editor in Chief, ICSSD-2019 (Indexed on IOP) 2019
- Member, Joint Cluster Committee, Covenant University 2019
- Member, Technical Program Committee, IEEE-IGCSR 2018
- Member, Technical Program Committee, IGCRE 2017
- Editorial Head, International Conference on Science and Sustainable Development 2017
- Superchair, EasyChair Platform for ICADI 2016
- Member, Technical Program Committee, CU-ICADI 2016
- Member, Technical Program Committee 2015 IEEE Jordan Conference on Applied Electrical Engineering and Computing Technologies (AEECT) 2015
- Member, Science/Tech Week, Covenant University 2015
- Member, Science/Tech Week, Covenant University 2014
- Member, Technical Program Committee, ICWRE 2013

Grants

- Co-Investigator, Periodically bent crystals for crystalline undulators, European Commission (grant.5494247). 2014-2019
- Co-Investigator, Comparative Levels of Radioactivity, Toxic Elemental and Antioxidant Concentrations in Some Selected Plants and their effects on Gene expression of some organs, Centre for Atmospheric Research, National Space Research and Development Agency, Federal Ministry of Science & Technology, Nigeria. 2020-2022
- Principal Investigator, Indoor air pollution investigation in third world countries, Bowen University, Iwo Nigeria. 2023

Web of Science
Records

Number of Papers
226

Citations
1206

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15

Publications (Part 1)

Category: Journals

Specialization: Renewable Energy

1. M.E. Emeter (2025). Staggered Gap Enhancement Using a Homostructure Double Transport Layer for an Improved Efficiency in Cu₂ZnSnS₄ Solar Cell, Brazilian Journal of Physics, 55 (5), 209, <https://doi.org/10.1007/s13538-025-01836-4>
2. M.E. Emeter (2025). Evaluation of the internal mechanisms of a Cu₂ZnSnS₄ absorber layer in a non-equilibrium state using mathematical and computational modeling, Optical and Quantum Electronics 57 (8), 1-18, <https://doi.org/10.1007/s11082-025-08351-5>
3. IA Salami, & ME Emeter (2025). A Review of the Significance of Perovskite Solar Cell Architecture for the Optimization of Photovoltaic Parameters, ES Energy & Environment, DOI:10.30919/ee1600
4. Olumide Olakunle Moyofola & Moses Eterigho Emeter (2025). Highly Efficient Cs₂SnI₆ Perovskite Solar Cell Through Optimization of Parameters and Device Architecture, Energy Science & Engineering, <https://doi.org/10.1002/ese3.70153>
5. Olumide Olakunle Moyofola & Moses Eterigho Emeter (2025). Numerical analysis of the optoelectronic properties of selected Sn-based perovskites solar cells using SCAPS simulation, Results in Optics, 21, 100868, <https://doi.org/10.1016/j.rio.2025.100868>
6. Olumide Olakunle Moyofola & Moses Eterigho Emeter (2025). Improving the performance conversion efficiency of perovskite solar cells through optimization of charge transport layers: A review, Renewable and Sustainable Energy Reviews, 222, 115943, <https://doi.org/10.1016/j.rser.2025.115943>
7. ME Emeter (2025). Progress, limitations, and advances of biohydrogen technologies: bringing the technology close to energy participants in developing countries, Biofuels, 1-17, <https://doi.org/10.1080/17597269.2025.2467493>
8. TJ Ayua, and ME Emeter (2024). Technical and economic simulation of a hybrid renewable energy power system design for industrial application, Scientific Reports 14 (1), 28739, <https://doi.org/10.1038/s41598-024-77946-x>
9. GE Akpan, ME Emeter, SA Afolalu, TC Jen. (2024). Prospective geothermal well and heat catchment locations in Nigeria: Remote sensing interpretations and field validation, Energy Exploration & Exploitation 42 (2), 567-588, <https://doi.org/10.1177/01445987231196917>
10. ME Emeter, AW Omotoso, SA Afolalu, L Amusan, TC Jen, KM Hossain (2024). Naturally Occurring Radioactive Materials and Heavy Metals in Photovoltaics: Insights into Short-and Long-Term Waste Hazards, Journal of Hazardous, Toxic, and Radioactive Waste 28 (3), 05024001, <https://doi.org/10.1061/JHTRBP.HZENG-1281>
11. ME Emeter, MI Oniha, DA Akinyosoye, GN Elughi, SA Afolalu (2024). Progress and challenges of green hydrogen gas production: Leveraging on the successes of biogas, International Journal of Hydrogen Energy, 79, 1071-1085
12. ME Emeter (2024). Yttrium cuprates modification in linear generator application for power generation, Clean Energy, 8 (5), 229-240

Software Proficient

MATLAB
Mathcad
GNU Octave
Origin
CERN-Root
Geant4
SCAPS-1D
XOP
SRIM/TRIM
OpenCV
OpenFoam
QMCPack
LAMMPS
Corteo
OMDAQ
Surfer
Vesta
ImageJ
Gwyddion
Gabedit
ERICA
Oasis Montaj
Quantum Espresso
SPSS
Orange3
Plotdigitizer
Past 4
Comphy 3
QGIS
MATCH
AirQ+
OpenCAD
Autodesk Ecotect
EDNA
FullProf Suite
MODFLOW

Publications (Part 1)

Category: Journals

Specialization: Renewable Energy

13. M Muhammad Bakeko, KU Isah, AS Abdulkareem, SO Ibrahim, .ME Emeter, (2023). Fe-Mo/Kaolin Catalyst Optimization and Characterization for the Production of Carbon Nanotube Using the Wet Impregnated Method, Jordan Journal of Physics Volume 16, Number 5, 2023. pp. 539-550
14. ME Emeter, OE Dania, SA Afolalu (2023). Domestic Wind Energy Planning for Deprived Communities in the Tropics: A Case Study of Nigeria. International Journal of Renewable Energy Development, 12 (2), 1-13
15. ME Emeter, OO Bello (2024). Green-based modifiable CaZnBr_4 for solar cells application, Materials for Renewable and Sustainable Energy 12 (3), 219-234
16. ME Emeter, MI Oniha, L Chikwendu, AD Akinyosoye, ET Akinlabi (2023). Enhanced Biogas Production from Human and Agro-Waste: Waste to Wealth Initiative, Waste and Biomass Valorization, 1-14
17. ME Emeter and W Joel (2023). Biofuel Commercialization in Developing Countries: Readiness and Prospects, Journal of Renewable Energy and Environment, 10 (4), 119-130
18. ME Emeter and GE Akpan (2023). Investigation of potential geothermal well locations in Nigeria using remote sensing and field measurement, International Journal of Sustainable Energy 42 (1), 627-647
19. M.E. EMETERE (2022). Geothermal Well Exploration in Nigeria Using Remote Sensing and Modified Thermal Equations, International Journal of Thermodynamics 25 (3), 22-30
20. Bello O.O. & Emeter, M.E., (2022). Progress and limitation of lead-free inorganic perovskites for solar cell application, Solar Energy, 243: 370-380
21. Emeter, M.E., Chikwendu, L., Abodunrin, T.J., Jen, T.C., Afolalu, S.A. (2022). A sustainable and affordable production design of cleaner biogas from human excreta using eggshell, Biomass Conversion and Biorefinery, <https://doi.org/10.1007/s13399-022-02500-6>
22. Emeter, M.E., Bello, O.O., Afolalu, S.A. (2022). Enhancement of novel NaZnBr_3 perovskite for solar cells application, Energy Reports, 8, 4453-4460
23. Moses E. Emeter, L. Chikwendu, and S. A. Afolalu (2022). Improved Biogas Production from Human Excreta Using Chicken Feather Powder: A Sustainable Option to Eradicating Poverty, Global Challenges, 2100117, 1-11
24. ME Ojewumi, ME Emeter, OR Obanla, DE Babatunde, EG Adimekwe (2022). Bio-Conversion of Waste Paper Into Fermentable Sugars-A Review, Frontiers in Chemical Engineering 4, 926400
25. FB Elehinafe, OB Okedere, AO Mamudu, ME Emeter (2022). Energy Status, Energy Mix and Renewable Energy Potentials of Nigeria, Energy and Environment Research 11 (1), 1-50
26. SE Sanni, O Agboola, Emeter Moses, E Okoro, SS Adefila, R Sadiku, P Alaba (2021). Utilization of Bioresources: towards biomass valorization for biofuels, Bioresource Utilization and Management, 251-284

Specialization: Renewable Energy

27. Moses E Emeter, O Agubo and L Chikwendu, (2021). Erratic electric power challenges in Africa and the way forward via the adoption of human biogas resources, *Energy Exploration & Exploitation*, 39(4) 1-29, DOI: 10.1177/01445987211003678
28. Khalid Hossain M, AA Arnab, Ranjit C Das, KM Hossain, MHK Rubel, Md Ferdous Rahman, H Bencherif, ME Emeter, Mustafa KA Mohammed, Rahul Pandey (2022). Combined DFT, SCAPS-1D, and wxAMPS frameworks for design optimization of efficient Cs₂BiAgI₆-based perovskite solar cells with different charge transport layers, *RSC advances*, 12(54), 35002-35025
29. Emeter M.E., Bello O., Afolalu S.A., Mamudu A.O., Amusan L.M., Iroham C.O., Odun-Ayo I. (2021). Parametric study of a proposed small hydropower project at Gurara-Nigeria, *Cogent Engineering*, doi 81187786810.1080/23311916.2021.1877868
30. Emeter, Moses E; Afolalu, SA; Adedayo, TOC; (2021). Analysis of Biodegradable Solid-State Filter Using Voltage Peak Analysis, *Key Engineering Materials*, 885: 47-52
31. Abodunrin, TJ; Emeter, ME; Obafemi, NO; Oyetade, OF; (2021). Metaheuristic conformal solutions for organic photovoltaic I-V curve tracers, *Physics Open*, 9:100087
32. Emeter, Moses E; Ahiara, Ikechukwu M; (2021). Synthesis and Characterization of Zinc Coated Carica papaya Extracts for Solid-State Application, *Key Engineering Materials*, 885: 53-57
33. Abodunrin T.J., Ajayi O.O., Emeter M.E., Popoola A.P.I., Uyor U.O., (2020). Popoola O. Investigating the electron tunneling effect on photovoltaic performance of almond (*Prunus dulcis*) dye-sensitized solar cell, *Heliyon*, 61, e0296110.1016/j.heliyon.2019.e02961
34. ME Emeter (2020). Spectral filtering copper-coated hibiscus-butanol extract for photovoltaic cells, *International Journal on Smart Sensing and Intelligent Systems* 13 (1), 1-6
35. M EMETER, S Sanni, O Dauda, A Akinsiku, O Osunlola, A Adejumo, (2019). Operational Trends of a mini parabolic solar collector for agricultural purposes in a non-active solar environment, *Journal of Computational & Applied Research in Mechanical Engineering* 15:4
36. ME Emeter (2019). Modified satellite remote sensing technique for hydrocarbon deposit detection, *Journal of Petroleum Science and Engineering* 181, 106228
37. Emeter Moses E., Adesina Tijesuni, (2019). Energy Planning and Sustainable Biogas Production Prospect Within Residential Quarters in Developing Countries, *International Journal of Engineering and Advanced Technology*, 9:3084-3089
38. Emeter M. E., Okonkwo O. D., Jack-Quincy S. (2018). Investigation of local materials on the durability of energy generating biomass cook stove for rural settlers, *International Journal of Engineering & Technology*, 7 (3): 1874-1880
39. ME Emeter, OD Okonkwo, S Jack-Quincy, (2018). Investigating Heat Sink Properties for an Efficient Construction of Energy Generating Cook Stove for Rural Settlers, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, 8(3): 12-22

Specialization: Renewable Energy

40. ME Emeter, OI Osunlola, AD Adejumo, AO Dauda, (2018). Design and Construction of A Domestic Solar Power Bank in a Convective Environment, *The Open Fuels & Energy Science Journal*, 11(1): 16-28
41. Moses Eterigho Emeter, A.D. Adejumo, S.A. Adelekan (2018). Empirical investigation of locally made biodiesel on the automobile properties of diesel engine, *MethodsX* 5, 1456-1464
42. Julius Omodara, Daniel Ayo, Moses Emeter, Ayodeji Ayoola, (2018). Empirical model for optimizing shea butter extraction in an unbaffled vessel equipped with an impeller, *Chemistry & Chemical Technology*, 12(2): 221-228
43. Emeter M.E., Jack-Quincy S., Adejumo A., Dauda O., Osunlola I., Adelekan D., Adeyemi O. Empirical analysis of biodiesel effect on the automobile properties of diesel engine: A case study of olive and soya biomass (2018) *Energy Science and Engineering* 66, 69370510.1002/ese3.244
44. Emeter M.E., Ojewumi M.E. (2018). Numerical modeling of the heat transfer process in thermoelectric generator, *International Journal of Mechanical Engineering and Technology*, 9, 11-24, ART NO. 052414
45. Emeter M.E., Falade A. (2018). Prospects of small scale wind-energy generation: Assessments of remote tropical setting, *International Journal of Mechanical Engineering and Technology*, 9, 353-3653, ART NO. 53365
46. Emeter M.E., Okonkwo O.D., Jack-Quincy S. (2018). Investigating heat sink properties for an efficient construction of energy generating cook stove for rural settlers, *International Journal of Manufacturing, Materials, and Mechanical Engineering*, 8, 31222, DOI:10.4018/IJMMME.2018070102
47. Abodunrin T., Boyo A., Usikal M., Emeter M.E., Ajayi O., Kotsedi C., Nuru Z., Malik M., Oghonyon G. (2018). Influence of n-Mosfet transistor on dye-sensitized solar cell efficiency, *Heliyon*, 412, e01078, DOI:10.1016/j.heliyon.2018.e01078
48. Emeter M.E., Sanni S.E., Dauda A.O., Akinsiku A.A., Osunlola O.I., Adejumo A.D. (2018). Operational trends of a mini parabolic solar collector for agricultural purposes in a non-active solar environment, *Journal of Computational and Applied Research in Mechanical Engineering*, 10, 120-121, DOI: 010.22061/jcarme.2019.3744.1437
49. Emeter M.E., Adejumo A.D., Adelekan S.A. (2018). Empirical investigation of locally made biodiesel on the automobile properties of diesel engine, *Methods*, X51, 4561464, DOI: 10.1016/j.mex.2018.10.020
50. ME Emeter, IS Aro, S Jack-Quincy, OD Okonkwo, ME Ojewumi, Omodara J., Jasper N., (2017). Investigating the cyclic breaking of butyl-, methyl-and ethyl-biodiesel from waste vegetable oil using ultraviolet-visible spectrophotometry, *Cogent Engineering*, 4, 1321084
51. M. E. Emeter, S. Jack-Quincy, S. I. Aro, O. D. Okonwo, F. T. Owoye & S. E. Sanni (2017): Validation of biodiesel quality of *Monodora myristica* and *Moringa oleifera* using regression and error analysis of UV absorption results, *Biofuels*, DOI: 10.1080/17597269.2017.1345362

Publications (Part 1) Category: Journals**Specialization: Renewable Energy**

52. M. E. Emetere, (2017). Lightning as a Source of Electricity: Atmospheric Modeling of Electromagnetic Fields, International Journal of Technology, 8: 508-518
53. Sanni, S.E., Emetere, M.E., Efeovbokhan, V.E., Udonne, J.D. (2017). Process optimization of the transesterification processes of palm kernel and soybean oils for lube oil synthesis, International Journal of Applied Engineering Research, 12 (14): 4113-4129.
54. Emetere M.E., Okoro U., Etete B., and Okunbor G., (2016), Free energy option and its relevance to improve domestic energy demands in southern Nigeria, Energy Reports, 2, 229-236.
55. Moses E. Emetere, Marvel L. Akinyemi, and Etimbuk B. Edeghe, (2016). A Simple Technique for Sustaining Solar Energy Production in Active Convective Coastal Regions, International Journal of Photoenergy 2016, 3567502, 1-11, <http://dx.doi.org/10.1155/2016/3567502>
56. Emetere, M.E., and Akinyemi M.L., (2015) Weather Effect on Photovoltaic Module Adaptation in Coastal Areas, International Journal of Renewable Energy Research, 5(3), 821-825
57. Uno, UE; Emetere, Moses; Fadipe, LA; Oyediji, J; (2015). Progress on mangifera indica as dye sensitized solar cell, International Journal of Applied Engineering Research, 10(7):17685-17695

Publications (Part 2) Category: Journals**Specialization: Energy Materials**

58. ME Emetere (2023). Limitation of solid-reaction technique in a controlled experiment: Characterization of polycrystalline $\text{LaCeO}_{3-x}\text{ThO}_3$ 1CuO_y compound, Kuwait Journal of Science 50 (4), 555-562
59. JF Kayode, SA Afolalu, ME Emetere, SI Monye, SL Lawal (2023). Application and impact of tribology in energy-an overview, E3S Web of Conferences 391, 01081
60. SA Afolalu, OO Yusuf, AA Abioye, ME Emetere, SO Ongbali, OD Samuel (2021). Biofuel; A sustainable renewable source of energy-a review, IOP conference series: earth and environmental science 665 (1), 012040
61. ME Emetere, (2020). Experimental validation of structural sequencing of $\text{La}_{0.2}\text{Sr}_{0.1}\text{Dy}_{0.1}\text{Cu}_{0.2}\text{O}_y$, Applied Physics A, 126(1): 1-13
62. Emetere M.E. Monte Carlo simulation of lattice analysis of complex $\text{LaCeTh}_{0.1}\text{CuO}_y$ using ion bombardment technique (2020) Nuclear Science and Techniques 31 32510.1007/s41365-020-0738-4
63. Akinsiku A.A., Ajani O.O., Adekoya J.A., Emetere M.E., Dare E.O. (2020). Green synthesis of triclinic (anorthic) phase AgCoPO_4 nanoparticles: optical studies and theoretical modelling, Heliyon, 69 e05029 DOI 10.1016/j.heliyon.2020.e05029
64. Emetere M.E., Structural Dynamics of Chemical Instabilities in $\text{La}_2\text{BaCe}_2\text{Cu}_2\text{O}_y$ (2020) Journal of Superconductivity and Novel Magnetism, 33, 719952007 doi 10.1007/s10948-020-05461-x

Specialization: Energy Materials

65. Emeterere M.E., Ahiara I.M., (2020). Synthesis and characterization of aluminium coated Syzygium Samarangense extracts, Chemical Data Collections, 28,100418 doi 10.1016/j.cdc.2020.100418
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5. Salami lfeoluwa, Influence of architectural design on lead-free inorganic perovskite for improved solar cell application, Physics Department, Bowen University. MSc (On-going)
6. **Co-Supervisor** Abobarin Adebola, Post-Covid Practices In Osun State Health Centers: Re Examining Detection, Reportage and Safety Of Health Workers, Nursing Department, Afe Babalola University, Ado Ekiti. MSc (2025)
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14. Ogundijo Esther, Microenvironmental Radon Exposure Assessment in Iwo and its environ, Physics Department, Bowen University. MSc (On-going)
15. **Co-Supervisor** OGUNLESI Gbenga, Fisher information and thermodynamic properties subject to harmonic oscillator with linear and inverse square potential, Physics Department, Bowen University. PhD (On-going)
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- External Assessor Oladijo Segun Stephen, Optimization of process parameters for sputtering of hydroxyapatite target on stainless steel. University of Johannesburg, Mechanical Engineering Science Department, Johannesburg, South Africa. MSc Dissertation (2019)
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- External Examiner Korede Mayowa Temiloluwa, A GIS-Based Evaluation of Urban Air Pollutants in Ibadan, Nigeria, Federal University of Technology, Akure, M.Tech (2024)
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- External Assessor National Research Foundation South Africa scientific ranking assessment of Prof Brett Cohen, University of Cape Town, South Africa 2023
- College Assessor Prof. Chijioke John Ajaelu, Chemistry Department, Bowen University, 2023
- Departmental Assessor Prof. Jacob Akinpelu, Physics Department, Bowen University, 2023, 2024
- Departmental Assessor Dr. Olumide Ajani, Physics Department, Bowen University, 2023, 2024
- Departmental Assessor Dr. Clement Onate, Physics Department, Bowen University, 2023, 2024
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- External Assessor Prof Eric Njoroge, University of Cape Town, South Africa. 2026
- External Assessor Dr. Mustapha Oladimeji Adewus, Lagos State University, Nigeria. 2026

Referee

On request



01/06/2026