

KABIR DANJUMA

Email: kabirdanjumaa@gmail.com

Mobile: +2348038113145

ORCID ID: 0009-0001-1610-8783

EDUCATION

Master of Science – Organic Chemistry
Bayero University, Kano Nigeria

Awarded 2024

Bachelor of Science – Chemistry
Bayero University, Kano Nigeria

Awarded 2017

Nigerian Certificate in Education – Chemistry/Physics
Isa Kaita College of Education Dutsinma, Katsina State

Awarded 2013

RESEARCH INTEREST

- Natural Products Chemistry/Biological Chemistry
- Bioactivity study/Bioassays
- Organic Synthesis/Bioinorganic chemistry

JOURNAL PUBLICATIONS (SELECTED)

1. Kabir D. and Lawan I. (2025). Impact of Extracts from Fluted Pumpkin (*Telfairia occidentalis*) leaves on Antimicrobial and Antioxidant Properties, *J. Mater. Environ. Sci.*, 16(11), 2035-2046
2. Danjuma, K., Jibrin, M., Abdu, K., Lawan, I., Amayindi, M., & Tasnim, T. (2025). ISOLATION AND CHARACTERIZATION OF COMPOUND FROM THE LEAF EXTRACT OF ALBIZIA CHEVALIERI : LEAF EXTRACT OF ALBIZIA CHEVALIERI . *INDONESIAN JOURNAL OF HEALTH SCIENCES RESEARCH AND DEVELOPMENT (IJHSRD)*, 7(2), 1–9. <https://doi.org/10.36566/ijhsrd/Vol7.Iss2/302>
3. Husaini M., Lawan I., Hamza M., Kabir D., Mu'azu J.B. (2023). Traditional and Advanced Extraction Methods of Bioactive Compounds: A Review, *J. Appl. Sci. Envir. Stud.*, 6(3), pp. 253-267
4. Kabir D., Mu'azu J.B., Lawan I., Hamza M.(2026) A Comprehensive Review of *Vernonia Amygdalina*: Phytochemistry, Nutritional Benefits and Biological Activities, *J. Mater. Environ. Sci.*, 17(1), 94-113.
5. Kabir D., Hamza M., Lawan I., Mohammed A.S., Mu'azu J.B. (2023). Nutritional and Therapeutic Applications of Cashew: A Review, *J. Appl. Sci. Envir. Stud.*, 6(3), 218-237
6. Kabir D and Lawan I. (2024). Advances in Organic Synthesis: From Classical Reactions

- to Modern Synthetic Strategies, *J. Appl. Sci. Envir. Stud.*, 7(3), 242-263
7. Kabir D., Lawan I. (2025). Evaluation of Cytotoxicity, Minimum Inhibitory and Bactericidal Concentrations of Fluted Pumpkin Leaves Obtained from Idah Local Markets, Kogi State, Nigeria, *Arab. J. Chem. Environ. Res.* 13(1), 41-55
 8. Husaini M. and Kabir D., (2023). A Systematic Assessment of Organic Compounds for Aluminum Corrosion Protection in Aggressive Environments, *J. Appl. Sci. Envir. Stud.*, 6(4), 268-292
 9. Kabir D., Mohammed A.S., Hamza M., and Lawan I. (2025). Natural Products and their Applications: A Review, *J. Mater. Environ. Sci.*, 16(11), 2105-2125
 10. Danjuma K. (2024). Exploring the Nutritional Composition and Health-Promoting Properties of *Garcinia kola*: A Mini Review, *J. Appl. Sci. Envir. Stud.*, 7(2), 90-101
 11. Danjuma, K. (2026, Nigerian Medicinal Plants: Historical Perspectives, Therapeutic Potentials, and Utilization Challenges, *Arab. J. Chem. Environ. Res.* 13(1) (2026) 89-107
 12. Kabir D., Lawan I. (2025). Qualitative and Quantitative Analysis of Phytochemicals, Mineral and Vitamin Compositions of Ethanol Extract of *Telfairia occidentalis* from Idah Metropolis, Nigeria, *Arab. J. Chem. Environ. Res.* 12(2), 179-197
 13. K Danjuma, K Abdu, I Lawan, M Jibrin, M Amayindi (2025). Phytochemical Screening, Antioxidant and Antimicrobial Properties of the Leaf Fractions of *Scoparia dulcis*. *Indonesian Journal of Health Research and Development*, 3(2), 57 - 65.
 14. Danjuma K. (2024), Ethno-medicinal and Pharmacological Applications of African *Senna alata*, *Guiera senelengalis*, and *Annona senegalensis*, *J. Appl. Sci. Envir. Stud.*, 7(1), pp. 24-39
 15. Danjuma K. (2024). Assessment of Phytochemical Content, Antioxidant and Antibacterial Effects of Some Selected Nigerian Medicinal Plants, *J. Appl. Sci. Envir. Stud.*, 7(3), 181-198. <https://doi.org/10.48393/IMIST.PRSM/jases-v7i3.63135>
 16. K Danjuma, K Abdu, I Lawan, M Amayindi, M Jibrin (2024). Assessment of Cytotoxicity, Antioxidant and Antimicrobial Activity of the Leaf Extracts of *Abelmoschus esculentus*. *Indoneaian Journal of Health Sciences Research and*

- Development*, 6(2), 81-87
17. Kabir D, Magaji A, Moses, Abdu K. Antimicrobial and Antioxidant Studies of the leaf extracts of *Lophira Lanceolata* (Male Shaere). *Acta Etymology and Zoology*, 5(2), 111-118, 2024.
 18. Kabir Danjuma and Imrana Lawan (2025), Evaluation of Antioxidant and Antibacterial Activities of *Telfairia occidentalis* Leaves Sold in Idah, Kogi State, Nigeria, *Arab. J. Chem. Environ. Res.* 12(2), 138-151
 19. Kabir D., Imrana L., Saleh J., Shafiu A. (2025). Preliminary Qualitative Phytochemical Screenings and Antimicrobial Potentials of The Leaf Extracts of *Moringa oleifera* Grown In Enugu State, Southeastern Nigeria. *Indonesian Journal of Health Sciences Research and Development*, 7(1), 1-9
 20. Danjuma, K. (2025). Comparative phytochemicals Screening, Antibacterial and Antioxidant Properties of Some Selected Medicinal Plants in Nigeria. *Indonesian Journal of Health Research and Development*, 3(3), 134-145

RESEARCH EXPERIENCE

Lecturer III

August 2020 – Date

Department of Science Laboratory Technology, Federal Polytechnic Idah, Nigeria

- Supervise diploma students' theses on biochemical screening, natural product characterization, and bioactivity studies of African medicinal plants

Graduate Research Assistant (MSc)

May 2019 – July 2024

Department of Pure and Industrial Chemistry, Bayero University, Kano, Nigeria

Supervisor: Prof. Kabir Abdu

- Performed DPPH radical scavenging assay
- Performed Antimicrobial activity using agar well and disc diffusion assay
- Characterized compounds using ¹H-NMR, ¹³C-NMR, FTIR, and GC-MS
- Executed relevant scientific procedure/ processes in adherence to safety protocols, coordinate in-depth data assessment by employing quantitative methods and techniques.
- Accomplish grant writing and publication objectives by authorizing, organizing, and editing assigned portions of proposals and projects reports

Undergraduate Research Assistant

February 2014 – January 2017

Department of Pure and Industrial Chemistry, Bayero University, Kano, Nigeria

Supervisor: Dr. Abubakar Sadiq Gumel

- Performed Extraction of plant samples
- Performed antioxidant activity of plant extracts
- Performed antibacterial and antifungal activity of plant extracts
- Performed cytotoxicity screening of plant extracts
- Learnt grants writing, thesis writing, reports writings, and writing manuscripts for publications

Teacher Training Certification

January 2010 – January 2013

Department of Physics, Isa Kaita College of Education Dutsinma

Supervisor: Mr. Suleiman Dangani

- Learn effective teaching, class management and control
- Learn how to prepare lecture notes, lesson plan, and grading

TEACHING EXPERIENCE

August 2020 – Date // Chemistry Lecturer // Federal Polytechnic Idah, Nigeria

- Lectured, Examined, and Graded Diploma students on Organic Chemistry
- Conducted Organic Chemistry practicals to demonstrate several organic reactions

January 2014 – July 2020 // Chemistry Teacher // Community Secondary School Musawa

- Taught, examined, and graded year 10 – 12 students on Chemistry
- Conducted Chemistry practical to demonstrate several reactions
- Mentored young science students on how to learn and perfect the concept of science
- Prepared students for IGCSE and Cambridge A'level examination
- Achieved 76.00% success rate with two consecutive tests

PROFESSIONAL EXPERIENCE

2020 – Date // Laboratory Assistant // Science Lab Tech., Federal Polytechnic Idah

- Organize and deliver organic chemistry lectures to Diploma students
- Supervise final year students conducting theses on bioactivity studies of medicinal plants

SELECTED GRANT

- 2025 TETFund Institution Based Research (IBR) grant to Isolate and Characterize Biologically Active Natural Products from *Telfairia occidentalis* Leaves Sold in Idah, Nigeria

WORKSHOPS ATTENDED

- 2021. "TETFund Research Proposal Writing, Grant Accessibility and Management", organized by the Registry Department, Federal Polytechnic Idah, Kogi State, Nigeria
- 2021. "A Five Day Workshop on Efficient and Quality Academic Delivery" for Academic Staff of the Federal Polytechnic Idah

APPLICABLE SKILLS

Chemical Analysis Skills

- Extraction of plant material by materials using different extraction techniques
- Concentration of plant extracts by rotary evaporation for research studies
- Separation of different mixtures by evaporation, centrifugation, distillation, and so on

Computational Skills

- Microsoft Offices packages, Endnotes, Adobe packages and other information technology compliance
- Computational Chemistry software packages such as Chemdraw, Gaussian 16, Chemcraft, Avogadro and VMD
- Basic data analysis with Excel, Python, and R-language

Research and Publication Skills

- Excellent Scientific Research ability with knowledge of APA and MPA referencing styles
- Excellent written and verbal communication skills
- Excellent abilities with Ms and Google Docs

Other Skills

- People management and organizational skills
- Teambuilding and staff supervision
- Decision making and time management
- Ability to communicate (Oral and Written) in English

VOLUNTEER EXPERIENCE/COMMUNITY SERVICES

- Teaching aids to Secondary Schools in Musawa Town
- *Organized Preparatory classes for final High School Students of Community Day Secondary School and Government Science Secondary School Musawa*
- *Taught Chemistry and practical work to effectively prepare them for final WAEC, NECO, and JAMB examinations*
-

REFEREES

Prof. Kabir Abdu
Professor, Department of Pure and Industrial Chemistry, Bayero University, Kano Nigeria
Email: kabdu.chm@buk.edu.ng // Phone: +2347061548840

Dr. Abubakar Abdussalam
Senior Lecturer, Department of Pure and Industrial Chemistry, Bayero University, Kano, Nigeria
Email: aabdussalam.cce@buk.edu.ng // Phone: +2348063355533

Dr. Abubakar Sadiq
Lecturer 1, Department of Pure and Industrial Chemistry, Bayero University, Kano, Nigeria
Email: sabubakar.chm@buk.edu.ng //Phone: +2348038566959