

OKE OLUWAFUNMILAYO ELIZABETH

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SUMMARY

A first-class Chemistry graduate with a strong academic background and research experience in nanotechnology, environmental chemistry, and photocatalytic materials. My research focuses on the green synthesis and characterization of titanium dioxide (TiO₂) nanoparticles using plant-mediated methods and their application in the photocatalytic mineralization of azocarmine dyes. I have experience with analytical techniques and data analysis and interpretation. I am interested in advancing my knowledge in chemistry, materials science, nanotechnology, environmental chemistry, and healthcare-related scientific applications.

EDUCATION

Lagos State University(LASU) Ojo, Nigeria

Apr. 2022 – Aug. 2026

Bachelor of Science (Chemistry) *First Class Hons (4.62/5.00)*

RESEARCH EXPERIENCE

Undergraduate Thesis

Apr. 2026

“Green Synthesis of TiO₂ Nanoparticles using *Morinda lucida* leaf extract for UV- Driven Photocatalytic Degradation of Azocarmine dye.”

Supervisor: Dr. T.S. Oyewole (LASU)

Research Objectives

- Green synthesis of titanium dioxide nanoparticles using *Morinda lucida* plant extract.
- Investigation of the potential of plant phytochemicals to facilitate and stabilize nanoparticle formation.
- Characterization of the synthesized TiO₂ nanoparticles using UV-Vis, FTIR, XRD, SEM-EDS and TEM techniques.
- Evaluation of the nanoparticles for UV-driven photocatalytic treatment of azocarmine dye-containing wastewater.
- Investigation of dye removal through adsorption and photocatalytic processes.
- Assessment of photocatalytic performance and degradation/mineralization efficiency.
- Interpretation of structural, morphological, optical, and elemental characteristics of the synthesized nanoparticles.

WORK EXPERIENCE

Student Industrial Work Experience Scheme (SIWES)

May- Oct 2025

Folarin Coker Staff Clinic, Lagos, Nigeria

Pharmacy Unit

- Assisted with routine pharmacy-related activities and organization of medications.
- Observed medication dispensing and basic pharmaceutical procedures.
- Developed practical understanding of the role of chemistry in pharmaceutical and healthcare settings.

Medical Reception Unit

- Assisted with patient registration and reception activities.
- Used computerized systems for patient records and registration.
- Assisted in directing patients to Dental, GOPD, Physiotherapy, and Eye Clinic units.

Laboratory Unit

- Participated in routine laboratory activities and sample handling.
- Gained practical exposure to diagnostic tests including malaria testing, random blood sugar, pregnancy testing, PCV, blood grouping, Widal test, HIV screening, Hepatitis B testing, PT, and other rapid diagnostic procedures.
- Developed an understanding of laboratory safety, documentation, and quality practices.

VOLUNTEER EXPERIENCE

Group Leader

Apr. 2023 - Aug. 2026

Undergraduate Chemistry laboratory practicals

PROFESSIONAL MEMBERSHIP

Nigeria Association of Science Student (NASS-LASU)

Apr. 2023

Student Chemical Society of Nigeria (SCSN- LASU)

Apr. 2023- Till date

SKILLS

Technical Skills

Laboratory and Analytical techniques, Ms word, Ms excel, Ms powerpoint, Data analysis and graphical presentation.

Communication Skills

Active Listening, Teamwork, Presentation Skills, Writing Skills

REFERENCES

Available on request.