

COLLEGE OF PHYSICAL SCIENCES

Department of Chemistry

M. Sc. (Industrial Chemistry)

ODEJOBI Babajide Michael

Dissertation: Graft Copolymerization of Acrylamide and Acrylonitrile onto Sodium Alginate by Ceric Ion-Allyl Alcohol Redox Pair

TIJANI Adetoun Oluwatoyosi

Dissertation: Synthesis and Characterization of Maleinized *Plukenetia Conophora* Oil-Styrene-Diviny L Benzene Thermosetting

FALOMO AyorindeAbayomi

Dissertation: Biodegradability of Modified Natural Rubber Blended with Acetylated Cassava Starch

M. Sc. (Physical Chemistry)

ADEOSUN Idowu Ebenezer

Dissertation: Quantitative Structural-Activity Relationship (QSAR) Model of Corrosion Inhibition Efficiency of Triazole Derivatives

AKINLOYE Olaoluwa Jacob

Dissertation: Kinetic, Equilibrium, Thermodynamic and Optimization Studies of Anionic Dyes Removal from Aqueous Solutions by Magnetic Supported Corncob.

UZOSIKE Anthony Okechuckwu

Dissertation: Magnetic Activated Carbon from Walnut Shells for Bisphenol-A Removal from its Aqueous Solution

AKANDE James Asamu

Dissertation: Batch and Optimization Studies of the Removal of Crystal Violet and Methylene Blue Dyes from Aqueous Solutions Using Magnetic Supported Sorghum Husks

M. Sc. (Inorganic Chemistry)

OLADIPO Oluwaseun Peter

Dissertation: Synthesis and Therapeutic Performance of Encapsulated Antimalarial Mesoporous Silica Nanodrug

Department of Computer Science

M. Sc. (Computer Science)

LAWAL Olumide Mohammed

Dissertation: An Improved Elliptic Curve Cryptography-Based Hybrid Scheme for Securing Plaintext

OKEDIRAN Timothy Mayowa

Dissertation: An Improved Mobile Payment Security Scheme Using Elliptic Curve Cryptography

NOAH Nureni Olusola

Dissertation: An Enhanced Neural Network Model for Estimating Channel in Orthogonal Frequency Division Multiplexing System

AKINWUNMI Oluwafemi Olakunle

Dissertation: A Secure Big Data Framework Based on Access Restriction and Preserved Level of Privacy

Department of Mathematics

M. Sc. (Mathematics)

BOLARINWA Abideen Ademola

Dissertation: A Modified Particle Swarm Optimization Algorithm for Single-Facility Weber Location Problem

Department of Physics

M. Sc. (Condensed Matter Physics)

OGINNI Taiwo John

Dissertation: Electronic, Structural and Thermoelectric Properties of Dilute Bismide Alloys of Gallium Arsenide (GaAs)

M. Sc. (Geophysics)

OGUNJUYIGBE Emmanuel Ajibola

Dissertation: Assessment of Groundwater Contamination around Open Dumpsite in Ibadan, Southwestern Nigeria Using Geophysical and Hydrochemical Methods

ARINFE Kayode Sunday

Dissertation: Geophysical and Hydrochemical Evaluation of Groundwater in Mawuko and Its Environs, Abeokuta, South Western Nigeria

SALAWU Abiodun Oluwatoyin

Dissertation: Hydrogeographical Exploration and Ground Water Quality Assessment of Obada-Oko, Ewekoro Local Government Area, Ogun State, Nigeria

M. Sc. Physics (Radiation and Health Physics)

APOCHI Godiva Kenneth

Dissertation: Lithological Characterization of Ijebu-Ife, Southwest, Nigeria, Using Aero-Radioactivity Data

OLANIYAN Thomas Olawale

Dissertation: Naturally Occurring Radionuclides and Elemental Concentrations in Selected Traditional Medicinal Plants

OLOWOFILA Inioluwa Oladipupo

Dissertation: Assessment of Human Exposures to Natural Background Radiation in Selected Centres in Southwest Nigeria

Department of Statistics

M. Sc. (Statistics)

AYODELE Oluwayemisi Uzobejemen

Dissertation: Bayesian Generalized Linear Model Estimation of Volume of Tree Species

OLAKIIGBE Abiodun Kanmi

Dissertation: Bayesian Estimation of Child Mortality Rate

Department of Chemistry

M. Sc. (Analytical Chemistry)

BABALOLA Adetola Adedayo

Dissertation: Ameliorative Effects of *Vernonia amygdalina* and *Clerodendrum volubile* Leaves Flavonoid Fractions on Arsenic-Induced Toxicity in Male Albino Rats

M. Sc. (Industrial Chemistry)

OLAYAN Ofunami Joy

Dissertation: Synthesis of Zinc Oxide Nanoparticle-Dye Hybrids and their Photo-physical Properties for Solar Cell

OLATUNDUN Khadijah Olawunmi

Dissertation: Encapsulating Properties of Pigeon Pea (*Cajanus cajan*) Protein Isolate on Fish Oil

ADE-OLOTU Samson Olaolu

Dissertation: Biosynthesis, Characterisation and Antimicrobial Properties of Silver Nanoparticles of Plant Extracts for the Colorimetric Sensing of Heavy Metal in Water

GINGO Hauwa Caroline

Dissertation: Production and Characterization of Edible Films from Pigeon Pea (*Cajanus cajan*) Protein

M. Sc. (Physical Chemistry)

OLAWOLE Ikeoluwapo Grace

Dissertation: Experimental and Quantum Chemical Studies on the Corrosion Inhibition Potentials of *Alafia barteri* (Guinea-fowl crest) and *Eugenia uniflora* (Pitanga) Leaves Extract

BANKOLE Mariam Adebola

Dissertation: Thermodynamic and Molecular Docking of Aspirin-Bovine Serum Albumin

M. Sc. (Inorganic Chemistry)

ADEBAYO Abdulfatai Olabanji

Dissertation: Synthesis of Chitosan Anchored Copper-Ferrite Nanocomposite as Smart Agent for Drug Delivery

Department of Computer Science

M. Sc. (Computer Science)

BABATUNDE Daniel Moses

Dissertation: An Enhanced Neighborhood Similarity Search in a Large Graph Database

ADEWUYI Mayowa John

Dissertation: An Integrated Security Architecture for e-voting Using Identity-Based Encryption Scheme

KAREEM Morenikeji Kabirat

Dissertation: An Intelligent Model for Detecting Distributed Denial of Service Attacks in Software-Defined Networking

TIJANI Olatunde Daniel

Dissertation: An Improved Aggregated Method for Yoruba Language Stop Words

ONI Oluwadolapo Solomon

Dissertation: Answer Generation to Product-Related Questions Using Multi-Task Bidirectional and Auto-Regression and Auto-Regressive Transformers

BABALOLA Yetunde Egunoluwa

Dissertation: A Rail Track Breakage Detection Model Using an Improved Fully Convolutional Network

DADA Ibidapo Dare

Dissertation: Improved Gradient Descent Methods for Optimization of Supervised Machine Learning

SOREMI Motunrayo Ajibola

Dissertation: Enhancing Intrusion Detection Capabilities Using Combined Pattern Matching Algorithm

Department of Mathematics

M. Sc. (Mathematics)

ADETUNJI Fatai Babatunde

Dissertation: On Generalized Semi Automorphic Inverse Property Loops

IBRAHIM Abiodun Muritala

Dissertation: Some Refined Neutrosophic Algebraic Structures and Their Respective Hyper structures

IBRAHIM-TIAMIYU Serifat

Dissertation: Analysis of Brandchoice: A Markov-Chain Theory Approach

NWODO Yvonne Njideka

Dissertation: A Scaled Conjugate Method for Large-Scale Unconstrained Optimization Problems

Department of Physics

M. Sc. (Physics)

EDUNJOBI Hazeez Owolabi

Dissertation: Aerogravity Study of Abeokuta and its Environs Using Integrated Source Parameters Estimation Techniques

M. Sc. (Condensed Matter Physics)

ASHANI Timothy Mitonji

Dissertation: Optimized Phase and Thermoelectric Properties of Copper Antimony Sulphide (Chalcostibite) for Solar Cell Application Using First Principle Calculations

M. Sc. (Geophysics)

AJIBOYE Samson Oluwaseun

Dissertation: Geophysical and Geotechnical Investigation of Flood Susceptible Areas in Agbado-Oja and Ijoko-Ota, Ogun State, South-Western Nigeria

OGABI Adewale Femi

Dissertation: Investigation of Groundwater Potential of Moloko-Asipa, Ogun State, Nigeria Using Electromagnetic and Electrical Methods

ODUTAYO Jesugbemi Olusesan

Dissertation: Effect of Temperature on Petrophysical Properties of Selected Rocks and Minerals in Ogun State, South West Nigeria

ADEGBAMIGBE Olumide Kolade

Dissertation: Assessment of Groundwater Contamination from Cassava Effluents Using Integrated Geophysical and Geochemical Methods in Ilaro, Ogun State, Southwest, Nigeria

M. Sc. Physics (Radiation and Health Physics)

FARINDE Damilola Adegbenro

Dissertation: Assessment of Radioactivity Levels and Radon Exhalation Rates of Floor and Wall Tiles from Selected Markets in Ibadan South-West Nigeria

OYEWUNMI Ayotunde Damilola

Dissertation: Monitoring Temporal Variation of Background Gamma Dose Rates with Meteorological Parameters in the Federal University of Agriculture, Abeokuta, Nigeria

Department of Statistics

M. Sc. (Statistics)

OKEJI Olusegun

Dissertation: Modeling Chaotic Behaviour of Stock Price Index Using Forward Kolmogorov Equation

ADEYEMO Ronke Gbemisola

Dissertation: A Modified Estimator for Quartile Ranked Set Sampling

ADEH Sophia Aghogho

Dissertation: Modelling Repeated Measures Dose-Response Mortality Data Using Generalized Estimating Equations (GEE)

DINA Oluwatobi Samuel

Dissertation: A Performance of Kumaraswamy Transmuted Rayleigh Distribution

OYEKUNLE Kazeem Adekunle

Dissertation: A Modified Calibration Approach for Ratio Estimator in Stratified Sampling

OGUNDINA Oluwatosin Catherine

Dissertation: A Modified Discretized Lindley Distribution for Ageing Lifetime Data

IMARHIA Faith Osarumwense

Dissertation: A Modified Estimator for Population Parameters in the Presence of Outliers

AFOLABI Nasimot Omowunmi

Dissertation: Bayesian Modeling of Malaria Incidence in Pregnant Women in Agbara/Igbesa LCDA, Ogun State Nigeria

OGUNTOLU Opeoluwa Stephen

Dissertation: An Improved Strata Boundaries Determination Method in Stratified Sampling

OLAEWE Olufunmilola Olapeju

Dissertation: An Autoregressive Hidden Markov Model for the Analysis of Time Series

OBI Ben Chinedu

Dissertation: Hierarchical Structured State Space Model for the Analysis of Nigeria Consumer Price Index

AROWOSEGBE Seun Sonayon

Dissertation: Modeling Nigerian External Reserves Using Bayesian Model Averaging

AKINLOLU Akintunde Emmanuel

Dissertation: A Modified Exponentiated Weibull Distribution for Modelling Lifetime Data

SAMSON Ugochukwu Joseph

Dissertation: Modelling Non-Linear Financial System Using Maximum Entropy Method

YOMI-OWOJORI Temitope Olorunwa

Dissertation: Bayesian Approach to Repeated Measures Design

AWOYEMI David Kayode

Dissertation: Modelling Nonlinear Dynamical System using Ornstein Uhlenbeck Process

Department of Chemistry

Ph. D. (Industrial Chemistry)

OLADIPO Funmilayo Yetunde

Thesis: Assessment of Physico-Mechanical Properties of Natural Rubber Vulcanizates with Eggshell and Watermelon Rind as Fillers

ILESANMI Nathanael Yinka

Thesis: Development and Evaluation of Natural Rubber Membranes for Sustained Transdermal Drug Release Application

Supervisor: **Prof. A. K. Akinlabi**

BAMISAYE Olusegun Abayomi

Thesis: Development, Characterization and Potential Applications of Oil-in Water Nanoemulsions in Drug Delivery and Cosmetology

Supervisor: **Prof. C. O. Eromosele**

JEGEDE David Olaoluwa

Thesis: Spatial Distribution of Radionuclides and Heavy Metals in Soil from Quarry Sites in Ogun State, Nigeria using Fuzzy Logic Modeling

Supervisor: **Dr. T. A. Afolabi**

AKINSIPO Oyesolape Basirat

Thesis: Development of Diosgenin-Incorporated Oil-in-Water Nanoemulsion/Nanogel for the Transdermal Treatment of Type II Diabetes Mellitus

Supervisor: **Prof. E. O. Dare**

ALIYU Adijah Omotanwa

Thesis: Production and Characterization of Bioplastic from Pigeon Pea (*Cajanus cajan*) Protein Isolate

Supervisor: **Prof. L.A. Arogundade**

Ph. D. (Inorganic Chemistry)

ALLI Yakubu Adekunle

Thesis: Quaternary Trimethyl Chitosan Metallic Nanostructures: Synthesis, Characterization and Antimicrobial Activities

Supervisor: Prof. S. Adewuyi

Department of Computer Science

Ph. D. (Computer Science)

ALARAN Misturah Adunni

Thesis: Improved Neutrosophic Similarity Measures for Computer-Aided Text Template

RAJI-LAWAL Hanat Yetunde

Thesis: Type-1 Linguistic Variable Intuitionistic Fuzzy Similarity Measure for Word Cognition Detection

Supervisor: Prof. A. T. Akinwale

ORUNSOLU Abdul Abiodun

Thesis: A Multifilter-Based Scheme for Detecting Phishing Attacks

Supervisor: Prof. A. S. Sodiya

AYO Femi Emmanuel

Thesis: A Probabilistic Clustering Model for Hate Speech Classification on Twitter

Supervisor: Prof. O. Folorunso

Department of Mathematics

Ph. D. (Mathematics)

ADELEKE Olawale Joshua

Thesis: Some Hybrid Conjugate Gradient Methods and Application in Constrained Optimization Problems

AYINDE Semiu Akinpelu

Thesis: Generalized Format-Torricelli and Weber Problems in Locally Convex Spaces

Supervisor: Dr. I. A. Osinuga

ADEYANJU Adetunji Adedotun

Thesis: Some Qualitative Properties of Solutions of Certain Aizerman Differentials

Supervisor: Prof. M. O. Omeike

DANIEL Ifeyinwa Eunice

Thesis: Amenability and Operator Amenability of a New Class of Fourier Algebras

Supervisor: Prof. A. A. A. Agboola

AKINBO Bayo Johnson

Thesis: Convective Heat and Mass Transfer in the Flow of Walter's B Fluid Over a Stretching Sheet

Supervisor: Prof. B. I. Olajuwon

Department of Physics

Ph.D. (Geophysics)

ISHOLA Sakirudeen Akinola

Thesis: Characterization of Ground Water Resource Potentials Using Integrated Techniques in Selected Communities within Ewekoro Local Government Area Nigeria

Supervisor: Prof. V. Makinde

Ph.D. (Radiation and Health Physics)

ADENIJI Moradeyo Asifat

Thesis: Investigation of Soil Redistribution Using Fallout Radionuclides on a Model Plot at the Federal University of Agriculture, Abeokuta

OLAOYE Morohunfoluwa Adeola

Thesis: Assessment of Radiological Exposures Arising from Radon Exhalation from Dumpsites in Lagos, Nigeria

EMUMEJAYE Kugbere

Thesis: Assessment of Chemical and Radiological Exposure Due to Artisanal Gold Mining in Selected Local Government Areas of Osun State, Nigeria

Supervisor: **Prof. A. O. Mustapha**

Department of Statistics

Ph. D. (Statistics)

WALE-OROJO Oluwaseun Ayobami

Thesis: Modelling Rare Events in an Adaptive Cluster Sampling with Heterogeneity among Networks and within the Network Units

Supervisor: **Dr. O. M. Olayiwola**

Department of Chemistry

Ph. D. (Industrial Chemistry)

SAMUEL Adeiza Emmanuel

Thesis: Polyurethane Elastomers and Polyurethane-Graft-Polystyrene Interpenetrating Polymer Network Based on *Ximenia Americana* L. (Wild Olive) Seed Oil

Supervisor: **Prof. I. C. Eromosele**

Ph.D. (Physical Chemistry)

AKIODE Olubunmi Kolawole

Thesis: Computational Modelling of Single Walled Carbon Nanotube-Metal Oxide Nanocomposite as Anode Material in Lithium Ion Battery Using First Principles Methods

Supervisor: **Prof. M. A. Idowu**

OSIDEKO Oluremi Abosede

Thesis: Kinetic, Thermodynamic and Isothermal Studies of Dyes and Insecticide Removal from Aqueous Solutions by Metal - Ferrites Modified Chitosan

Supervisor: **Prof. I. A. Adeogun**

Department of Mathematics

Ph. D. (Mathematics)

ADAMS Daniel Oluwasegun

Thesis: Boundedness and Stability Criteria for a Class of Second Order Nonlinear Differential Equations with Delay

Supervisor: **Prof. M. O. Omeike**

ABDULKAREEM Abdulafeez Olalekan

Thesis: On Properties of Some Classes of Generalized Loops

Supervisor: **Prof. O. J. Adeniran**

Department of Physics

Ph.D. (Condensed Matter Physics)

SUNMONU Rabiun Sile

Thesis: Attributes and Effects of 3d Transition Metals in Cobalt-Based Full Heusler Alloys Using Different Pseudo-Potential: GGA-DFT Calculations

ADENIJI Rasaki Idowu

Thesis: Predicting Electronic Band Structure, Elastic and Thermodynamic Properties of Hexagonal AIB₂ in XB₂ (X=Mg, Ca and Ag) Superconductors Using ab-initio Approach

OJO Kolawole Richard

Thesis: Ab-Initio Investigation of Electronic Structure, Elastic and Thermodynamic Properties of Nb₃Sn and V₃X(X=Ga, Si) Compounds

SOLOLA Gbenro Timothy

Thesis: Ab-Initio Calculations of Electronic, Structural, Optical Thermodynamic and Thermoelectric Properties of Tin Monoxide

AGBAOYE Ridwan Olamide

Thesis: Effects of Pb Substitution by Mg on the Electronic Band Structures, Elastic, Optical and Thermoelectric Properties of XPbI₃ (X=CH₃ NH₃ +, CH (NH₂)₂ +) from First Principles Calculations

Supervisor: Prof. G. A. Adebayo

Ph.D. (Geophysics)

KUFORJI Hakeem Iyiola

Thesis: Experimental Development of Wave Velocities Temperature Coefficient Model for Porous Media in Ogun State, Southwestern Nigeria

Supervisor: Prof. O. D. Akinyemi

ALUKO Taiwo Joshua

Thesis: Mineral Deposits Mapping and Environmental Impact Assessment of Mining Activities in Parts of Oke Ogun Area, Southwest Nigeria Using Geophysical and Geochemical Methods

Supervisor: Prof. V. Makinde

OGUNSANWO Fidelis Olatoyosi

Thesis: Lithological Mapping of Ogun State, Nigeria Using Aeroradiometry

Supervisor: Prof. J. A. Olowofela

Ph.D. (Radiation and Health Physics)

BIERE Peter Ebibuloami

Thesis: Development of an In-Situ Gamma-Ray Spectrometric System for Absorbed Dose Rate Evaluation

Supervisor: Prof. A. O. Mustapha