



THE TECHNICAL UNIVERSITY OF KENYA

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School:	PHYSICS AND EARTH SCIENCES
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EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	CHEMISTRY	UNIVERSITY OF THE WESTERN CAPE(South Africa)	2011
Masters of Science (M.Sc.)	CHEMISTRY	UNIVERSITY OF THE WESTERN CAPE(South Africa)	2009
Bachelor of Education (B.Ed)	MATHEMATICS AND CHEMISTRY	KENYATTA UNIVERSITY(Kenya)	2005

WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
2015 - TO DATE	THE TECHNICAL UNIVERSITY OF KENYA	SENIOR LECTURER
2012 - 2015	KENYATTA UNIVERSITY-KITUI CAMPUS	LECTURER

SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
Current Trends of Nanobiosensors for Point-of-Care Diagnostics	https://www.hindawi.com/journals/jamc/2019/2179718/
Impedimetric Response of a Label-Free Genosensor Prepared on a 3-Mercaptopropionic Acid Capped Gallium Selenide Nanocrystal Modified Gold Electrode	http://www.electrochemsci.org/papers/vol6/6051438.pdf
Modulation of the interfacial electrochemistry of surfactant-functionalised polypyrrole chemical sensor systems	https://www.sciencedirect.com/science/article/pii/S0013468611003987
3-Mercaptopropionic Acid Capped Ga ₂ Se ₃ Nanocrystal-CYP3A4 Biosensor for the Determination of 17-Alpha-Ethinyl Estradiol in Water	https://www.scientific.net/NH.1.1
3-Mercaptopropionic acid capped ZnSe quantum dot-cytochrome P450 3A4 enzyme biotransducer for 17 beta-estradiol	https://www.sciencedirect.com/science/article/pii/S1572665711000166
Nickel-Palladium-Based Electrochemical Sensor for Quantitative Detection of Formaldehyde	https://onlinelibrary.wiley.com/doi/abs/10.1002/slct.201702019
Gallium-Induced Perturbation of Zinc Selenide Quantum Dots Electronics	https://onlinelibrary.wiley.com/doi/full/10.1002/slct.201700748
Optoelectronics of stoichiometrically controlled palladium telluride quantum dots	https://www.scientific.net/JNanoR.40.29
Electronics of Conjugated Polymers (I): Polyaniline (A Review Paper)	http://www.electrochemsci.org/papers/vol7/71211859.pdf
A Potential masking approach in the detection of dopamine on 3-mercaptopropionic acid capped ZnSe quantum dots modified gold electrode in the presence of interferences	https://www.sciencedirect.com/science/article/pii/S1572665710001037
Ferrocenium hexafluorophosphateinduced nanofibrillarity of polyanilinepolyvinyl sulphamate electropolymer andapplication in an amperometric enzyme biosenso	https://www.sciencedirect.com/science/article/pii/S0013468609005933
Spectroelectrochemical Dynamics of Dendritic Poly (Propylene -Estradiol Biosensor, imine)-Polythiophene Star Copolymer Aptameric 17β-Estradiol Biosensor	http://www.electrochemsci.org/papers/vol6/6051686.pdf
A silver Nanoparticle/Poly (8-Anilino-1-Naphthalene Sulphonic Acid) Bioelectrochemical Biosensor System for the Analytical Determination of Ethambutol	http://www.electrochemsci.org/papers/vol6/6061820.pdf
Impedimetry and microscopy of electrosynthetic poly(propylene thiophenoimine)-co-poly(3,4 ethylene dioxothiophene) dendritic star copolymer	http://www.electrochemsci.org/papers/vol6/6061855.pdf
) Determination of Anthracene on Ag-Au Alloy Nanoparticles/Overoxidized-Polypyrrole Composite Modified Glassy Carbon Electrodes	https://www.mdpi.com/1424-8220/10/10/9449
Polyester Sulphonic Acid Interstitial Nanocomposite Platform for Peroxide Biosensor	https://www.mdpi.com/1424-8220/9/12/9965
Functionalisation of polyaniline nanomaterials for amperometric biosensing, Nanostructured Materials for Electrochemical Biosensors,	https://www.novapublishers.com/catalog/product_info.php?products_id=16267
A silver nanoparticles-poly (8-anilino-1-naphthalene sulphonic acid) bioelectrochemical sensor system for the analytical determination of ethambutol	https://www.researchgate.net/publication/215796636_A_Silver_NanoparticlePoly_8-Anilino-1-Naphthalene_Sulphonic_Acid_Bioelectrochemical_Biosensor_System_for_the_Analytical_Determination_of_Ethambutol

POSTGRADUATE STUDENTS SUPERVISION

NAME	PROJECT TITLE	PERIOD
Nachaki Earnest Ojiambo	Fabrication of Nickel-Palladium Based Electrochemical Nanosensor for Quantitative Detection of Formaldehyde in Water	2017-2019
Abongile Nwabisa Jijana-	The Fabrication of an electrochemical ZnSe quantum dot -CYP3A4 based biosensor for determination of 17- β -Estradiol (an Endocrine Disrupting Compound)	2009-2010
Waweru James Gitau	Development of Hexadecylamine Capped Indium Telluride Quantum Dots Sensors for the Determination of Mammaglobin- A Breast Cancer Biomarker	Ongoing
Lucy Kiio	Fabrication of A Nanostructured Biosensor For Early Detection of Lung Cancer Biomaker Using Electrochemical Methods.	Ongoing
Ezo Nxusani	GaSe quantum dots biosensor for the determination of 17-alpha ethinyl estradiol in water.	2011-2012
Muthimi Onesmus Muyalo	Determination of Selected Poly-Aromatic Hydrocarbons in Roasted Maize in Kitui County, Kenya	Ongoing