

ACADEMIC STAFF PROFESSIONAL PROFILE FORM



1. Personal Data

Name: Evans Changamu Ogwagwa
Title/Qualifications: PhD
Department/Unit/Section: Department of Chemistry
Contact Address: P.O. Box 43844 Nairobi 00100
Position: Lecturer
Area of Specialization:
Coordination and Organometallic Chemistry
Research Interests:
Organometallic Synthesis and computational Chemistry
Molecular modelling for druglikeness
Water research – pollutant removal through adsorption

1. Conference Presentations

S/No	Presenter	Title of Paper presented	City/Country	Date of Conference	Funding (US\$)
1	Mr George Omolloh	Moving domain qm/mm force field methods for interaction of human estrogen receptor alpha with endocrine disrupters	Nairobi	9-11 th May 2017	
2	Evans Changamu	National workshop on the overview of trends in teaching and research in inorganic chemistry and its applications in Kenya: Teaching and Coverage of Inorganic Chemistry at Undergraduate Level	Nairobi	12 – 13 May 2016	
3	Mariah Onditi	Adsorption of heavy metals from aqueous solution using hemicellulose isolated from cactus plant	Mauritius	28-30 October 2015	
4	Mariah Onditi	Electrospun Hemicellulose-Based Polymer Nanofibers Utilized for Water Treatment	Boston, Massachusetts, USA.	Nov 29-Dec 4, 2015	
5	Mr Stanslaus Lusambili	Physico-chemical characterization of raw clays used in pottery making in Kakamega County	Nairobi	5 th – 8 th May 2015	

2. Research

S/ No	Researcher	Year	Title	Donor	Funding (US\$)
1.	Evans Changamu	2003-2007	Transition metal stabilization of carbocations	NRF, SA	Grant Holders Bursary
2.	Evans Changamu	2007	Transition metal stabilization of halogenated carbocations	UKZN	5000

3. Funded projects

S/ No	Researcher	Year	Title	Granting Body	Funding (US\$)
1.	Chengo Katana	2017	Synthesis, Characterization, Bioassay and DFT Studies of Iron Half Sandwich Complexes of Selected Antitubercular Amines	NRF, Kenya	15198.24
2.	George Omolloh	2017	Moving domain qm/mm and molecular dynamics studies on human estrogen receptor alpha (her α) ligand binding domain, mutants and their interaction with endocrine disruptive chemicals	NRF, Kenya	4000
3.	Nancy K. Omori	2017	Palynological, physical and chemical characterization of mangrove honey from Kilifi county, Kenya	NRF, Kenya	5000
4.	Dr Evans Changamu	2014	Synthesis, Characterization DFT and Antitubercular studies on Organometallic complexes of Pyrazine-2-carboxamide and Isonicotinohydrazide	NACOSTI	14900
5.	Maria Onditi	2014	Extraction and characterization of cactus polymers for fabrication of a water treatment device	OWSD	22000

4. Publications

S/No.	Author	Year	Title	Journal	ISBN/ISSN Reference No.
1.	Rozy Munene, Evans Changamu, Nicholas Korir and Gweyi-Onyango Joseph	2017	Effects of different nitrogen forms on growth, phenolics, flavonoids and antioxidant activity in amaranth species.	Tropical Plant Research 4(1): 81-89	ISSN (E): 2349 – 1183 ISSN (P): 2349 – 9265
2.	Munene Rozy, Changamu Evans, Korir Nicholas and P. Gweyi-Onyango	2016	Characterization and Documentation of Factors Contributing to Production and Consumption of African Leafy Vegetables	<i>Asian Research Journal of Agriculture</i> 1(3) 1-9	

	Joseph		(ALVs) in Kiambu and Kirinyaga Counties in Kenya.		
3.	Mariah Onditi, Adedeji A. Adelodun, Evans O. Changamu, Jane C. Ngila	2016	Removal of Pb ²⁺ and Cd ²⁺ from drinking water using polysaccharide extract isolated from cactus pads (<i>Opuntia ficus indica</i>),	<i>Journal of Applied Polymer Science</i> 133(38), 43913	DOI: 10.1002/app.43913
4.	Stanslaus M. Lusambili, Alphonse W. Wafula, Evans C. Ogwagwa,	2016	Spectroscopic and physical characterization of clays from Ilesi area in Kakamega County and their suitability for pottery,	<i>Journal of the Kenya Chemical Society</i> 9, 1-14	
5.	Cyprian M. M ^o thiruaine, Holger B. Friedrich, Bernard Omondi, Evans O. Changamu	2013	A Structural Investigation of the D ₂ O Solvated, Acetone Solvated and Non-solvated 1,4-Diazabicyclo[2.2.2] octane Complexes of the Half Sandwich Moiety [(η ⁵ -C ₅ H ₅)(CO) ₂ Fe].	<i>South African Journal of Chemistry</i> , 66, 237 – 243	

5. Affiliation to Professional Bodies

S/No	Name of professional body
1	Kenya Chemical Society
2	The America Chemical Society
3	Kenya DAAD Scholars' Association
4.	Technical Committee on Rubber and Rubber products at KEBS

6. External Examination (if any)

S/No	Institution	Year
1	University of the Western Cape, South Africa.	2016
2.	University of KwaZulu-Natal, South Africa	2015
3.	Bharathiar University, Coimbatore, India	2013

7. Supervision of postgraduate students (if any)

S/No	Name of student	Thesis title	Status of project(e.g. First year etc)
1	Cyprian M. M ^o thiruaine,	Syntheses and characterization of iron amine complexes	Graduated 2012, PhD (UKZN)
2	Mariah Onditi, 184/21921/2012	Characterization and Fabrication of cactus polymers for water treatment	Graduated 2017, PhD (UJ)

3	Maximilla Mutenyo Makhanu, I84/13676/2009,	An alternative method of preparing diammonium phosphate fertilizer for greenhouse tomato production”	Thesis writing(3 rd draft)
4	Echessa A.C. Peter, I84/25745/2011,	Formulation and evaluation of an NPK supplementary fertilizer from sisal (<i>Agave sisalana</i>) and livestock wastes	Thesis writing(draft 2)
5	Katana Chengo, I84/32248/2015	Synthesis, characterization, bioassay and DFT Studies of Iron Half Sandwich Complexes of Selected Antitubercular Amine Ligands	Second year
6	Nyakung’u Walter, I56/26234/2011,	“Density functional theory studies on structural properties and energies of isoniazid analogues”,	Graduated, 2015
7	Kirkok Samuel Kipyegon, I56/CE/22221/2010,	“Characterization of honey produced by <i>Apis mellifera</i> and <i>Melipona beecheii</i> bees from Marigat and East Pokot regions of Baringo county- Kenya”	Graduated, 2015
8	Stanslaus Manyengo Lusambili, I56/24068/2012,	Physico-Chemical Characterization of Raw Clays Used in Pottery Making in Kakamega County.	Graduated 2016
9	Wanjiru Kennedy Mburu, I56/CE/22223/2010	“Screening of the amine complexes of the organometallic moiety [(η ⁵ -C ₅ H ₅)(CO)(PPh ₃)Fe] for antibacterial activity”.	Graduated 2016
10	Adamu Abdulhameed 156F/27069/2013,	Synthesis of silicon nitride from rice husk and sugarcane bagasse ashes for adsorption of fluoride from waste water	Graduated 2016
11	Muthuri Aquiline Kathambi,	I56/CE/14212/2009: “Synthesis and characterization of low oxidation state cobalt chelates”	Graduated 2017
12	William Kailo Munyoki, I56/CE/22237/2010,	Assessment of Adulteration and Impurities of Illicit Heroin in Nairobi, Kenya.	Graduated 2017
13	11 MSc Students Continuing with various projects		

12. Administrative positions held to date

1. Chair School Board of Undergraduate studies, SPAS
2. Current Departmental examinations Coordinator, Department of Chemistry