CV - Dr. Owino JHO - Tel. +254-721-257142

Dr. Owino Joseph Hazael Odero



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PERSONAL INFORMATION	
Date of Birth	1 st December 1974
Nationality	Kenyan

EDUCATION		
Post-Doctoral Research Fellow	University of Stellenbosch, S.Africa	2009 (Aug) -2010 (Mar)
PhD	University of the Western Cape, S.Africa	Awarded in 2009
Masters of Science	Jomo Kenyatta University of Agriculture and Technology, Kenya	Awarded in 2005
Bachelor of Science	Jomo Kenyatta University of Agriculture and Technology, Kenya	Awarded in 1998 [Honors]

Employment History

- 1. Senior Lecturer, Acting Dean, School of Natural Sciences Masinde Muliro University of Science and Technology, March 2017-To date
- 2. Lecturer, South Eastern Kenya University, Jan -July, 2015
- 3. Lecturer, Department of chemistry, College of Science and Technology, University of Rwanda, (formerly Kigali Institute of Science and Technology) From April 2010 to Dec 2014 (Head of Department 2012-2014).

Courses Taught:	Basic Chemical Thermodynamics, Statistical Thermodynamics, Electrochemistry, Chemical Kinetics, Advanced Chemical Kinetics Theory of Spectroscopy, Instrumental methods of analysis, Separation Techniques and Chromatography, Further Chemical Kinetics and Electrochemistry Quantum Chemistry, Physical Chemistry II, Bioinorganic Chemistry.		
Responsibilities: 4. Tutor at Chemi	 Setting and advancing the academic strategy of the Department in line with Faculty and University strategic plans. Developing and sustaining appropriate structures for management, consultation, decision-making and communication with staff and students. Promoting and representing the department both internally and externally. Ensuring that all activities are carried out to the highest possible standards and putting in place the necessary evaluation and monitoring procedures to ensure both compliance and improvement: such procedures include teaching and research. Complying with, quality assurance procedures both internal and external. 		
Responsibilities: Offering tutorials and supervision of practical sessions to undergraduate students.			
5. Quality Assura	nce Officer at Kapa Oil Refineries Ltd – 1998 to 2002		
Responsibilities:	 Observation of Good Manufacturing Practices (GMP), Good Laboratory Practices (GLP) and International Organization of Standards (ISO) 9001:2000 principles. Trained as an Internal Quality Auditor and also on Documentation and Implementation of ISO 9001:2000 Quality Management System. 		
6. Research Assis	tant, Chemistry Department-JKUAT – 1998		
Responsibilities:	 Carrying out fieldwork e.g. sampling as prescribed by scientist. Collection and recording of raw data of Scientific research results for analysis. Performing various forms of data analysis e.g. variance 		

test, regression, correlation, standard errors/deviations
and their interpretations.

RESEARCH UNDERTAKEN		
Electro-hydro-dynamic desalination of water	Post-Doctoral Research Project	
Frequency and Voltage-Modulated electrochemical		
Aflatoxin B ₁ immunosensor systems prepared on	PhD Thesis	
electroactive organic polymer platforms		
Bio-prospecting for Anti-mosquito compounds from		
Turraea abyssinica and Turraea cormicopia	MSc Thesis	
Determination of copper levels in River Ruiru using AAS	Final years' Research Project	
Determination of copper levels in liver Kurru using AAS	(Undergraduate)	

BLICATI(ONS
2018	Martin Patrick Ongol, Joseph Owino , Mercy Lungaho, Théogéne Dusingizimana and Hilda Vasankthalam Micro-Mineral Retention and Anti-Nutritional Compounds Degradation during Bean Cooking Process. <i>Current Research in Nutrition and Food Science</i> 2018 (Accepted Manuscript)
	Owino Joseph, Mukashyaka Phelomene, Ndayisaba Helene, Habimar Valens, Ongol Martin, Dil Thavarajah, Pushparajah Thavarajah Phenolic Compound Profiles of Two Common Beans Consumed k Rwandans. American Journal of Plant Sciences, 2014, 5, 2943-2947
	Joseph Owino , Ahmed Hassanali and Mary Ndung'u Bio-Assay Guide Fractionation of Anti-Mosquito Limonoids From <i>Turraea abyssinica</i> ar <i>Turraea cornucopia. Journal of Biofertilizers and Biopesticides.</i> 2014, 5: 142. doi:10.4172/2155-6202.1000142
2014	
2013	Mbonyimana Emmanuel Owino Joseph Niyonsenga Faustin, Tuyiseng Emmanuel, Production and Physico-Chemical Analysis Of Lubricant Fro Castor Seeds. <i>East African Journal of Science and Technology</i> , 2013, 3, 13

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	143
	Gashugi E, Uwikunda S, Tuyishime C, Gafasi A, Owino J (2013). Physicochemical analysis of groundwater from Rugende II well, Rwamagana district, Rwanda. <i>East African Journal of Science and Technology</i> , 2013, 3, 104-110
2010	Omotayo A. Arotiba, Joseph H. O.Owino , Priscilla G. Baker and Emmanuel I. Iwuoha. Electrochemical impedimetry of electrodeposited poly(propylene imine) dendrimer monolayer. <i>Journal of Electroanalytical Chemistry</i> , 2010. 638,287-292
2009	Everlyne A. Songa, Omotayo A. Arotiba, Joseph H. O. Owino , Nazeem Jahed, Priscilla G.L. Baker and Emmanuel I. Iwuoha. Electrochemical Detection of Glyphosate Herbicide Using Horseradish Peroxidase Immobilized on Sulfonated Polymer Matrix. <i>Bioelectrochemistry</i> , 2009, 75, 117-123.
	Omotayo Arotiba, Joseph, H. O. Owino , Everlyne Songa, Nicolette Hendricks, Tesfaye Waryo, Nazeem Jahed, Priscilla Baker and Emmanuel Iwuoha. An Electrochemical DNA Biosensor Developed on a Nanocomposite Platform of Gold and Poly (propyleneimine) Dendrimer. <i>Sensors</i> . 2008, 8, 6791-6809.
	Joseph, H. O. Owino , Mary Ndung'u and Ahmed Hassanali. Two New Azadiron Limonoids from <i>Turraea cornucopia. Journal of the Kenya Chemical Society.</i> 2008, 5, 43-49.
2008	Joseph, H. O. Owino, Omotayo, A. Arotiba, Priscilla, G. L. Baker, Anthony, Guiseppi – Elie and Emmanuel, I. Iwuoha. Synthesis and Characterization of Poly (2-hydroxyethyl methacrylate)-Polyaniline Based Hydrogel Composites. Reactive and Functional Polymers. 2008, 68, 1239-1244.
	Joseph, H.O. Owino , Omotayo A. Arotiba, Nicolette Hendricks, Everlyne A. Songa, Nazeem Jahed, Tesfaye T. Waryo, Rachel, F. Ngece, Priscilla G.L. Baker and Emmanuel I. Iwuoha. Electrochemical Immunosensor Based on Polythionine/Gold Nanoparticles for the Determination of Aflatoxin B ₁ . <i>Sensors.</i> 2008, 8, 8262-8274.
2007	Joseph, H. O. Owino , Ignaszak, A., Al-Ahmed, A., Baker, P.G. L., Alemu, H., Ngila, J. C. and Iwuoha, E. I. Modelling of the Impedimetric Responses of an Aflatoxin B_1 Immunosensor Prepared on an Electrosynthetic Polyaniline Platform. <i>Analytical and Bioanalytical Chemistry</i> . 2007. 388, 1069-1074.

Conferences	
Phenolic Compound Profiles of Two Common Bean Varieties	18 th - 21 st June 2018
Consumed by Rwandans. Pan African International Research	10 - 21 julie 2010

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Congress, Ki	sumu , Kenya		
Retention of micro-minerals and degradation of anti-nutritional compounds during the traditional Rwandan bean cooking process. Micronutrient Forum 2014. Addis Ababa, Ethiopia		2 nd -4 th June, 2014	
cereal- base	al and anti-nutritional content of legumes and d foods commonly consumed in Rwanda. 3 rd d and Nutrition Summit, Ministry of Health, Rwanda.	18 -20 th February, 2014	
Extension, Ki	Conference on Agricultural Research and gali Serena Hotel. "Fostering innovation and Science and Technology" Kigali, Rwanda.	21 st -23 rd August, 2013	
12th Internation Prague, Czec	ional Conference on Electroanalysis, (ESEAC) , ch Republic.	16-19 th June, 2008	
• 1 st International Symposium on Electrochemistry, University of Western Cape, South Africa.		9-11 st July 2008	
	• CHEMRAWN XII (IUPAC) International conference, , Stellenbosch University, South Africa; 2 – 5 th Dec 2007		
Southern and Eastern African Network for Analytical Chemists (SEANAC) Conference, , Gaborone, Botswana 15 – 18 July 200		15 – 18 July 2007	
38 th South Africa Chemical Institute (SACI) conference, Durban, South Africa.		3-8 Dec 2006	
FUNDED RESE	ARCH		
2017	Bioprospecting for Phytochemical Repellants and Biopesticides of the Jigger Flea, <i>Tunga Penetrans</i> from the Western Kenya Flora. Role: Research Collaborator		
2016	Centre for African Medicinal and Nutritional Flora and Fauna Funded by URF, MMUST Role: Research Collaborator		
Waste to renewable energy: Biogas Cleanup(Upgrading) in Tanzania and			

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2015	Kenya. Funded by USAID Role: Co-Principal Investigator.
2013	Water and soil iron contents in a tea plantation in Rulindo, Rwanda. Funded by by Centro Internacional de Agricola Tropical (CIAT) and International Food Policy Research Institute (IFPRI) Grant No. 8286. Role: Co-Principal Investigator
2012	Production of sanitary pads from locally available materials. Funded by Sustainable Health Enterprise (SHE)Role: Co-Principal Investigator
2011	Retention studies of iron and zinc in the most common bean dishes as prepared in the Northern and Southern Provinces of Rwanda. Funded by Centro Internacional de Agricola Tropical (CIAT) and International Food Policy Research Institute (IFPRI) Grant No. 8250. Role: Research collaborator.
2010	Training workshops and postgraduate programme on instrumentation for Environmental and Biochemical analysis. Funded by Migration for development of Africa (MIDA). Role: Co-coordinator

SUPERVISION

Velma Judith Adhiambo: Bioprospecting for Phytochemical Repellants and Biopesticides of the Jigger Flea, *Tunga Penetrans* from the Western Kenya Flora. PhD MMUST (Ongoing)

Colleta Achieng Songa: Assessment of Phosphorus Levels from Land use Patches along the Upper Reaches of River Isiukhu Watershed, Kakamega County, Kenya MSc MMUST (Ongoing)

Jane Oremo: Partitioning and Sorption Characteristics of Heavy Metals along Isiukhu River, their levels in Benthic Microinvertabrates, Water and Sediments MSc MMUST(Ongoing)

PROFFESIONAL ASSOCIATIONS

Kenya Chemical Society

South Africa Chemical Institute

SCHOLARSHIP	
National Research Foundation (NRF) scholar	2006-2008
NRF Post-Doctoral Fellow	2009

OTHER ACIVITIES	
External Examiner, MSc thesis	University of western Cape, South Africa Nelson Mandela-Africa Institute of Science and Technology, Tanzania
Reviewer, NRF funded research proposals	
Chair, Tracer study committee-Received 57,400 US	D to fund tracer study on KIST graduates
Chair, Committee on Harmonization of Students' reg	gulations

REFEREES	
Dr. Antoine Nsabimana	Vice Dean, School of Science University of Rwanda, P.O.Box 3900,Kigali-Rwanda. Email: dfos@kist.ac.rw Phone: +250788435561
Prof. Emmanuel Iwuoha	Department of Chemistry, University of the Western Cape Private Bag X17, 7535 South Africa. Email: eiwuoha@uwc.ac.za Phone: +27219593054
Prof. Joseph Chacha	Deputy Vice Chancellor, Partnerships, Research and Innovations Maseno University, Private bag, Maseno, Kenya. Email: chachajs@yahoo.com Phone: +254722611025