CURRICULUM VITAE

PERSONAL INFORMATION Name Address Mobile E-mail Date of Birth Languages Sex Marital Status Nationality	Dr. Keno David Kowanga, Phl Maseno University Department of Chemistry Private Bag, Maseno +254 720 170 612 <u>kenokowanga@gmail.com</u> 2 nd November 1987 Fluent in English and Swahili Male Married Kenyan	D	
CAREER ASPIRATION	To be an effective and competent lecturer and researcher in Chemistry and to work in a challenging and dynamic institution or organization in Organic Chemistry , Analytical Chemistry and Natural Product Chemistry with dedication, creativity and implementation of existing policies through teamwork		
PROFESSIONAL QUALIFICATION 2013 – 2019	Ph.D. Chemistry Advisor: Dr. Joan Munissi	University of Dar es Salaam	
2010 - 2012	M.Sc. Chemistry Advisor: Prof. Erastus Gatebe	Jomo Kenyatta University of Agriculture and Technology	
2006 - 2009	B.Sc. Analytical Chemistry [First Class Honours]	Jomo Kenyatta University of Agriculture and Technology	
2001 – 2004	Kenya Certificate of Secondary Education	St. Mary's Boys' Secondary School	
1993 – 2000	Kenya Certificate of Primary Education	Sega Township Primary School	
DIPLOMA/CERTIFICATE 2015 - 2016	Diploma in Higher Education	Kampala International University	
2005	Certificate in Computers	Kirinyaga School of Professional Studies	
EMPLOYMENT PROFILE: Mar. 2021 – To Date	Lecturer, Department of Chemistry Maseno University Duties To contribute towards the achievement of the Mission and Vision of the University; To contribute effectively to the creation and circulation of knowledge through effective teaching, research and publishing; To enrich the intellectual development of students through interactions and academic counselling in area of specialization; To participate in institution building and extra-curricular activities of department in order to create a rich and vibrant intellectual environment at Maseno University. 		

Feb. 2020 – Feb. 2021	Lecturer, Pharmacy Department Kam	npala International University in			
	Tanz	zania			
	Duties:				
	 Mentor young academicians, teach and sup- students. 	ervise undergraduate and diploma			
	 Develop and continually improve the curricular of 	of courses that I teach.			
	 Research and publish academic articles/books in area of my specialization. Advice students and colleagues on appropriate subject matters consistent with my academic background and training. Develop a marking scheme for the courses that I teach, carry out progressive 				
	assessments, set and mark examinations in the co	assessments, set and mark examinations in the courses that I teach.			
	• Attend relevant meetings, discuss matters as per	the agenda and perform any duties as			
	may be assigned to me by relevant university aut	horities.			
Jan. 2012 – May 2019	Assistant Lecturer, Pharmacy Department Kam	npala International University in			
	Tanz	zania			
	Duties:				
	 Mentor young academicians, teach and sup- students. 	ervise undergraduate and diploma			
	• Develop and continually improve the curricular of	of courses that I teach.			
	Advice students and colleagues on appropriate				
	academic background and training.	5			
	• Develop a marking scheme for the courses that I teach, carry out progressive				
	assessments, set and mark examinations in the courses that I teach.Attend relevant meetings, discuss matters as per the agenda and perform any duties as				
	may be assigned to me by relevant university aut	horities.			
Jan. 2011 – Dec. 2011	Senior Tutor Kenya Institu	te of Development Studies			
	Duties:				
	• Teach and supervise diploma and certificate stude	ents.			
	• Setting and Invigilating CATs and Exams				
	Marking CATs, Practicals and Exams				
Feb. 2010 – May 2010	Laboratory Technician Aqua	atech Industries Limited			
	Duties				
	• Portable water treatment and analysis.				
	• Waste water treatment and analysis.				
	• Industrial water treatment and analysis.				
	 Boiler water, cooling and chillers water treatments/analysis. 				
	Chemical and Bacteriological water analysis				
Dec. 2009 – Jan. 2010	Quality Assurance Keri	cho Water and Sanitation			
		pany Limited			
	Duties:				
	Tests: Turbidity Test, TDS Test, Chlorine Residue Test, PH Test and Jar Test				
	 Processes: Chlorine Dose, Alum Dose and Ph Stabilization 				
	• Trocesses. Chronic Dose, Atum Dose and Fil Sta				

Jan. 2009 – April 2009	Research Assistant Tea Research Foundation of Kenya		
	Duties		
	Soil Sampling		
	Determination of pH		
	 Air drying of soil Milling and sieving Extraction, dilution and analysis of nitrates Research Project: Colometric Determination of Nitrate-Nitrogen in Tea Soils using Copperized-Cadmium Reduction Procedure. 		
FUTURE AMBITIONS			
	To be a Scholar, Researcher and a Consultant		
GRANTS AND			
SCHOLARSHIPS 2014	National Commission for Science, Technology and Innovation through Science, Technology		
2017	and Innovations (ST&I) Research Grant NACOSTI/RCD/ST&I 5 th Call Ph.D./148 worth Ksh.		
	1,000,000 towards my proposal entitled "Metabolites from Selected Plant Species and Salt Lake		
	Fungi: Their Antimycobacterial Properties and Biodiesel Feedstock Potential"		
	Tungi. Then Antimycolaeterial Hoperies and Biodeser recusioek Fotential		
2013 – 2019	NAPRECA-DAAD Scholarship; to pursue Ph.D. Chemistry at University of Dar es Salaam		
	Chemistry Department. (Successfully finished and graduated with PhD Chemistry)		
	chemistry Department. (Successionly missive and graduated with Fild chemistry)		
2011	Science, Technology and Innovation Research Grant (M.Sc.) awarded by National Council for		
	Science and Technology worth Ksh. 200,000 towards my proposal entitled "Clarification of		
	Turbid River Water and Biosorption of C(II) and Pb(II) using Natural Coagulants: <i>Maerua</i>		
	subcordata, Moringa oleifera and Prosopis juliflora"		
	Government of Kenya Scholarship; to pursue B.Sc. Analytical Chemistry at Jomo Kenyatta		
2006 - 2009	University of Agriculture and Technology. (Successfully finished and graduated with B.Sc.		
	Analytical Chemistry {First Class Honours})		
RESEARCH DONE			
Ph.D. Thesis	Metabolites from Selected Plant Species and Salt Lake Fungi: Their Antimycobacterial		
	Properties and Biodiesel Feedstock Potential		
M.Sc. Thesis	Clarification of Turbid River Water and Biosorption of Aqueous Cu(II) and Pb(II) using		
	Natural Coagulants: Maerua subcordata, Moringa oleifera and Prosopis juliflora.		
B.Sc. Research	Development of Wood Adhesives based on Cashew Nutshell Liquid (CNSL).		
Danal			
Research	Colometric Determination of Nitrate-Nitrogen in Tea Soils using Copperized-Cadmiu		
	Reduction Procedure.		
PUBLICATIONS 12	Joan J.E. Munissi, Stephen S. Nyandoro, Keno David Kowanga, James G. Mayeka, Rose J.		
	Masalu, Máté Erdélyi and Erastus G. Gatebe. New Prenylated Flavones and Nor-		
	Sesquiterpenoid from <i>Erythrina Sacleuxii</i> (Fabaceae) (manuscript drafted for publication)		

Keno David Kowanga, Joan John Eliona Munissi, Rose Masalu, Stephen Samwel Nyandoro,
 Pax Masimba and Erastus Gatebe. 2017. Antimycobacterial and Cytotoxic Activities of
 Extracts from Fungal isolates of Lake Magadi. International Journal of Chemical and Biological
 Sciences. 11(5): 2430-2441. DOI: https://dx.doi.org/10.4314/ijbcs.v11i5.38

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- 10 **Keno David Kowanga**, Erastus Gatebe, Godfrey Omare Mauti, Eliakim Mbaka Mauti, 2016. Kinetic, Sorption Isotherms, pseudo-first-order Model and pseudo-second-order Model Studies of Cu(II) and Pb(II) using defatted *Moringa oleifera* seed powder. *The Journal of Phytopharmacology The Journal of Phytopharmacology*, 2016;5(2):71-78
- 9 Keno David Kowanga, Erastus Gatebe, Godfrey Omare Mauti and Eliakim Mbaka Mauti, 2016. Comparative Studies of Alum, Maerua Subcordata Root Tuber Powder and Juice Extract as Coagulation/Flocculation Agents. International Journal of Pharmaceutical, Chemical and Biological Sciences. ISSN: 2249-9504. IJPCBS 2016, 6(2), 244-250. http://www.ijpcbs.com/files/19-04-2016/16-630.pdf
- 8 **Keno David Kowanga**, Godfrey Omare Mauti, Eliakim Mbaka, 2016. Effect of Crude and Defatted *Moringa oliefera* Seeds as Natural Coagulants in the Removal of Physical, Chemical and Bacteriological Parameters from Turbid River Water. *Journal of Scientific and Innovative Research. ISSN 2320-4818. J. of Sci. Inno. Res., 2016;5(1):19-25*
- Godfrey Omare Mauti, Justus Onguso, David Keno Kowanga, Eliakim Mbaka Mauti, 2016.
 Biodegradation Activity of Aspergillus niger Lipase Isolates from a Tropical Country Garage.
 Journal of Scientific and Innovative Research. ISSN 2320-4818. J. of Sci. Inno. Res.,
 2016;5(1):15-18 (Accepted: 05-02-2016
- Godfrey Omare Mauti and David Keno Kowanga. 2015. Phytochemical Screening and GC-MS Analysis of Ethanolic Extract of Tubers of *Maranta arundinacea* L. Research Journal of Pharmaceutical, Biological and Chemical Sciences. *ISSN: 0974-8485*
- 5 Keno Kowanga, Godfrey Omare Mauti, Eliakim Mbaka Mauti, 2015. Biosorption for lead (II) ions from aqueous solutions by the biomass of *Spyridia filamentosa* algal species found in Indian Ocean. *Journal of Scientific and Innovative Research. ISSN 2320-4818.* <u>J. of Sci. Inno.</u> <u>Res., 2015;4(5):218-220</u>
- 4 Godfrey Omare Mauti, Eliakim Mbaka Mauti, David Keno Kowanga, 2015. Evaluation of malaria spread in relation to poor environmental conditions at Kibaha district (Tanzania). Journal of Scientific and Innovative Research. ISSN 2320-4818. J. of Sci. Inno. Res., 2015;4(5):203-206
- Eliakim Mbaka Mauti Godfrey Omare Mauti, Justus M. Onguso, David Keno Kowanga, 2015.
 An investigative study of dwarf mango (Boribo Muyini) seed kernel extracts against inflammatory agent *Staphylococcus aureus*. Journal of Scientific and Innovative Research. ISSN 2320-4818. J. of Sci. Inno. Res., 2015;4(5):200-202

	2	Godfrey Omare Mauti, Keno Kowanga, Emmanuel Lubosa. 2015. Phytochemical screening to
	2	validate the ethnobotanical importance of root tubers of <i>Dioscorea</i> species of Meghalaya, North East India. Journal of Medicinal Plants Studies. Year: 2015, Volume:1, Issue:7 First page: (62) Last page: (69) ISSN:2323-3861 Online Available at <u>www.plantsjournal.com</u>
	1	Keno D. Kowanga, Erastus Gatebe, George T. Thiong'o, Patrick Kareru, 2012. Biosorption of Cu(II) and Pb(II) using <i>Maerua subcordata</i> root tubers. <i>Tanzania Journal of Natural and Applied Sciences. ISSN 1821-7249</i> . http://www.sjutpress.org/ojs/index.php/tajonas/article/view/65/68
CONFERENCE AND		
POSTERS 5		Keno D. Kowanga, Joan J. E. Munissi, Stephen S. Nyandoro, Rose Masalu and Erastus Gatebe. 2018. Fatty Acids Composition of Fungal Isolates from Lake Magadi – Possible Biofuel Feedstock. Oral Presentation at the International Conference of the Natural Products Research Network for Eastern and Central Africa – Kenya held on $8^{th} - 10^{th}$ February 2018 at SAJOREC in JKUAT, Kenya on the Theme: " <i>Utilization of Natural Products for the Betterment of the Livelihood of Man</i> "
	4	Keno D. Kowanga , Joan J. E. Munissi, Stephen S. Nyandoro, Rose Masalu, Erastus Gatebe, 2016. <i>Qualitative Analysis of Fatty Acid composition of Selected Fungi from Lake Magadi using GC-MS</i> . Poster presentation at the scientific conference on the 50 th Anniversary of CoNAS (formerly Faculty of Science) held at the University of Dar es Salaam, Dar es Saalam, Tanzania, 30 th March - 1 st April, 2016 on theme " <i>Science for Sustainable Development</i> "
	3	Keno D. Kowanga , Erastus Gatebe, George T. Thiong'o, Patrick Kareru, 2012. Comparative studies of crude and defatted Moringa oliefera seeds as natural coagulants in removal of physical, chemical and bacteriological parameters from turbid water. Presented at The Seventh JKUAT Scientific, Technological and Industiralization Conference, $15^{th} - 16^{th}$ November, 2012 on the theme 'Science, Technology and Innovation for Sustainable Development'.
	2	Keno D. Kowanga , Erastus Gatebe, George T. Thiong'o, Patrick Kareru, 2012. <i>Effect of varying sorption parameters during biosorption of Cu(II) and Pb(II) from aqueous solution</i> . Presented at Masinde Muliro University of Science and Technology Annual Conference, $28^{th} - 30^{th}$ June, 2012. Hosted by the Faculty of Education and Social Sciences on the theme 'Action Research in Higher Education and Development in Africa'.
	1	Keno D. Kowanga , Erastus Gatebe, George T. Thiong'o, Patrick Kareru, 2012. <i>Effect of defatted Moringa oliefera seed powder in removal of Cu(II) and Pb (II) from aqueous solution</i> . Presented at Jomo Kenyatta University of Agriculture and Technology, Institute of Tropical Medicine and Infectious Diseases. Third Annual ITROMID Scientific Conference, 24 th – 25 th May.
BOOKS AUTHORED		Godfrey Omare Mauti, Eliakim Mbaka Mauti and David Keno Kowanga , Herbs versus Pathogens: Medicinal Plants Ravage Wound and Pus Pathogens. <i>Lambert Academic Publishing. ISSN: 978-3-659-79327-1</i>

WORKSHOPS		
3	Postgraduate Training Workshop (3 ECT) in "Science and Leadership for Transformin Institutions" The Research School for Society, Landscape and Land use at the Swedis University of Agriculture Sciences and the University of Dar es Salaam conducted on the 10 March 2017	
2	Products, Nanomedicine and Com	Workshop on "NMR for Structural Elucidation of Natural puter Aided Drug Design" conducted at Nelson Mandela chnology, Arusha, Tanzania on August 25 th – 29 th 2015
1	DAAD and ITOCA Workshop on on July $27^{th} - 30^{th}$, 2015 at the Whi	"Tapping into e-resources for DAAD Scholars" conducted ite Sands Hotel.
STUDENTS SUPERVISED 4		
3		
2		nomedical Survey and Phytochemical Analysis of Selected ement of Gonorrhoea at Kazimzumbwi – Kisarawe District."
1		n "Ethinomedical Survey and Phytochemical Analysis of HIV/AIDS at Kazimzumbwi Ward in Kisarawe District"
HOBBIES AND INTEREST	Reading Scientific Journals and Magazines Charity Work and Singing in a Church Choir	
SKILLS AND COMPITENCE	Fast in terms of learning and adjusting to different working environment Ability to work under minimum supervision, multi-cultural and multi-ethnic environment. Excellent interpersonal relations, computer skills, report writing, and leadership skills.	
REFEREES		
Prof. Erastus Gatebe, Ph.D.	Dr. Joan J. E. Munissi, Ph.D.	Dr. Mhina H. S. Chambuso. Ph.D.
Professor of Analytical/Environmental	Lecturer, Chemistry Department	Senior Lecturer
Chemistry, JKUAT	University of Dar es Salaam	Kampala International University in
Chief Research Scientist, KIRDI	P. O. Box 35091 Dar es Salaam	Tanzania P. O. Box 0700 Der es Seleem
Chairperson, Board of Directors,	Cell: +255 764 252 411	P. O. Box 9790, Dar es Salaam,
Kenya Radiation Protection Board	Email: joanmunissi@yahoo.co.uk	Tanzania
		Cell: +255 689 506 316
Cell: +254 722 454 909 Email: <u>erastusgatebe@gmail.com</u>		Email: mhinachambuso53@gmail.com