

# CURRICULUM VITAE

## 1. **PERSONAL DATA:**

**Name:** Prof. Joseph S. Chacha

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## 2. **EDUCATIONAL BACKGROUND**

**University of Ottawa, Canada: (1984 - 1988) PhD** in Chemistry (Electrochemistry)  
**University of Nairobi: (1979 - 1981):MSc.** (Chemistry).  
**Kenyatta University: (1975 - 1978)** Bachelor of Science (Education) First Class Hons.  
**Homa Bay High School:(1973 - 1974)** East African Advanced Certificate of Education  
**Homa Bay High School: (1969 - 1972)** East African Certificate of Education,  
**Nyankore Primary School:(1962 - 1968)**Certificate of Primary Education

## 3. **WORK BACKGROUND**

I have served as a lecturer teaching various courses of physical chemistry to undergraduate and post graduate students. I have also carried out research in environmental/ analytical chemistry. I have also served as an academic mentor in various to various students in various Universities. I have supervised several undergraduate, masters and PhD students in the area of electrochemistry, analytical chemistry and environmental chemistry

## 4. **LEADERSHIP BACKGROUND**

From humble beginning as chairman of Department in 1993, I have risen through the ranks to become Dean School of Graduate Studies, Dean Schools of Science, Principal College Campus, Deputy Principal (Academic Affairs) of a University College and now a Deputy Vice- Chancellor in-charge of Partnerships, Research and Innovations at Maseno University. I have also served as an acting Vice-Chancellor. I have served in senior University Management positions for over sixteen years. I am also a Professor of Chemistry in the area of electrochemistry

## 5. **CURRENT RESEARCH INTRESTS**

My current research interests are in environmental/ analytical Chemistry. Determination of heavy metal and nutrients in river waters, soils, sediments and plants.I am currently studying the effects of tobacco growing on soil fertility and environmental degradation.

## 6. **SOME OF THE RESEARCH FUNDS ATTRACTED**

- 2014-** *Synthesis and characterization of cheap and effective nanocomposites for effective removal of water pollutants*– **A Joint Research Grant under the South Africa/Kenya-Research Partnership Programmes.Amount: Kshs 1.5million – Co-researcher**
- 2012-**“*Development of Nanoporous Ceramic Membrane for a Domestic Water Filter*”  
**Amount: Kshs 7million – Co-researcher**
- 2011-** “*Biogas Resource Assessment, Purification and Packaging for Commercial Household Cooking*”.  
**Amount: Kshs 6million – Co- researcher**
- 2010-** “*Effect of Tobacco Growing on Soil Fertility and Environmental Degradation in Migori County*”.  
**Amount: Ksh.6 Million – Principal Investigator.**

2009- "Use of Organic amendments to improve crop yields and to curb pollution of the water resources in Nzoia River Drainage Basin, Kenya" Amount: Ksh.2 Million. – Co - Researcher.

#### 14) PUBLICATIONS:

1. Lilian K. Mulimi, Patrick Home, Daniel O. Siringi & Joseph S. Chacha (2018) treatment of waste water from slaughterhouses by electroagulation ; case study of Gachororo slaughterhouse, Kiambu County , Kenya' Published by the journal of environment and earth science Vol. 8 pg 37-51
2. Daniel Siringi, Patrick Home, and Joseph S. Chacha (2013). Remediation of chicken plant processing waste water using electrochemically produced layered double Hydroxides" Published by international Journal of Engineering and innovative technology , Vol.2, no. 8, pg61-64.
3. Chacha, J.S; Omayo, K.E; Okongo, E.R; Ali Salim. Assesment of the effects of Tobacco farming on soil nutrients in Migori County, Kenya. International Journal of BioChemiPhysics, Vol. 20, January 2013
4. Omayo, K.E., Chacha, J.S, Okongo, E.R and Ali M. Salim. Effects of Tobacco Farming on fertility in Migoricounty, Kenya. International Journal of Proffessional, Volume 3, Issue 1 and 2, Page 74, January 2012.
5. Osano Aloys Mosima, Okongo Eric Rangondi, Oyaro Nathan, Chacha Joseph and Kiptoo Jackson. Composition and structural characterisation of indigenous salts in Kenya: A case study of 'Para, Magadi and Lebek' crystalline salts. *International Journal of BiochemiPhysics*, Vol. 20, January 2013.
6. Oyaro Nathan; Kimenyu Phylis Njeri; Okongo Eric Rangondi; Chacha Joseph Sarima. The potential of *Zea mays*, *Commelinabengelensis*, *Helianthus annuus* and *Amaranthushybridus* for phytoremediation of waste water. An interdisciplinary journal of Applied Science, Vol 7 n 3, 2012
7. W. Nyaigoti Omwoyo, Joseph S. Chacha, Solomon Omwoma, Joseck O. Alwala, David M. K. Ongori, Lagat C. Cylus, Joseph O. Lala (2012). Nutrient Reduction in Runoff from Sugarcane Farms by Sedimentation Method. *The Environmentalist*. DOI 10.1007/S/10669 – 012 – 9416 – 3.
8. Onditi, O.A; Mutembei, J.K; Chacha J.S and Oyaro, N. Determination of heavy metals and nutrients in water samples of Rivers Naka and Irigu, Chuka Meru-South District-Kenya using Atomic Absorption Spectroscopy and UV/Visible Spectrophotometry. *International journal of pure and applied Science*, Volume 3, Number 4, 2010.
9. Osano, Aloys; Cheruiyot, Linus; Chacha Joseph; Maghanga Justin and Maera John. Role of Organic Nutrient levels on the distribution of Macroinvertebrates: A case study of River Sosiani, Eldoret Town, Kenya. *Journal of Agriculture, Pure and Applied Science and Technology*, **4**, 32-38 (2009).
10. J. S Chacha, N Oyaro , J I Murungi, " Heavy metals in soils in Nairobi City, Kenya" *J .Kenya Chemical Society*, **3 (1), 2006**.
11. Duke Orata, J. Chacha and Florence Oloo. Electrochemical study in the use of surface modified electrodes to Investigate the Interaction of Copper pesticides with acidified soil. *East African journals of physical Sciences* 5(2): 53 – 60 (2004).
12. C. C. Mbovu, J. S. Chacha., J. I. Murungi. The impact of Agricultural Activities on the Nutrient levels on a section of River Migori. *Journal of the Kenya Chemical Society*, **Vol. 2, No. 1 2004, Page 1 – 3**.