

Joshua Sila Munyao
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Objective

Seeking a new and a challenging opportunity that will utilise my skills to support research and teaching.

Personal Information

Age: 37 years

Marital status: Married

Current Employer: Teachers' service commission

Education and Qualifications

- PhD:** Doctorate in Chemistry; University of Nairobi.
Research thesis title;
Development of a novel square wave voltammetric method for determination of phenoxymethylpenicillin and benzylpenicillin in animal products and pharmaceutical samples
- MSc:** Master of Science Chemistry, University of Nairobi (2015)
Research thesis title; Green synthesis of silver nanoparticles using *Eucalyptus Corymbia* leaves extract; characterization and antimicrobial application.
- BSc:** Bachelor of Science (Education with Information Technology), Maseno University (2009)
- Certificate** Kenya Certificate of Secondary Education (K.C.S.E) 2003
Secondary school: B+ 72 points

Career Summary

- Sep 2012 to date** Teachers service commission
Katheka Kai Secondary school
Chemistry and Mathematics
- Sept 2018 - Jan** **Part-time lecturer, Machakos university**

- 2019:** ***Units that I have taught and examined:***
- Chemical thermodynamics
 - Fundamentals of chemistry
 - Chemistry for engineer's II
 - Laboratory procedures and classical analysis
 - Laboratory methods for public Health
 - Coordination and organometallic chemistry
 - Transition Metal chemistry
 - Phase Equilibria

- August 2018:** **Part-time lecturer, Garissa University**
Units that I have taught and examined:
- Electrochemistry
 - Fundamentals of chemistry
 - Atomic structure and bonding

Training

- Grant proposal submission workshop, **University of Nairobi**, 16th July 2018
- Grant proposal writing workshop, **National research Fund (NRF)** at University of Nairobi 20th Jan 2017

Areas of interest

- Electrochemistry
- Nanochemistry
- Sensors
- Natural products

Conferences

- 1st annual conference on Science and Development: supporting manufacturing, affordable housing, universal health care and food security. College of Biological and Physical science, University of Nairobi, Kenya (24th & 25th October 2018).
 - **Oral presentation:** Voltammetric determination of penicillin G in Sodium Dodecyl Sulfate/acetate buffer media on glassy carbon electrode.
- The Second East and Southern Africa environmental/analytical chemistry conference theoretical chemistry conference in Africa, 3rd to 7th September 2018. Reef hotel, Mombasa, Kenya.
 - **Oral presentation:** square wave voltammetric determination of penicillin V in Sodium Dodecyl Sulfate containing media on glassy carbon electrode.

Publications

- **Joshua M. Sila**, Peterson M. Guto, Immaculate Michira, Francis B. Mwaura, Edward K. Muge. Electrochemical determination of penicillin G in cow milk and pharmaceuticals in SDS/acetate buffer, International journal of electrochemical sciences. 16(2021) ID: 210444, doi: 10.20964/2021.04.41
- **Joshua M. Sila**, Peterson M. Guto, Immaculate Michira, Francis B. Mwaura. Voltammetric Determination of Penicillin G in sodium Dodecyl Sulfate/acetate buffer Media on Glassy Carbon Electrode, International journal of sciences: basic and applied research (IJSBAR)2018 vol.40 PP 220-233
- **Joshua M. Sila**, Peterson M. Guto, Immaculate Michira, Francis B. Mwaura. Square Wave Voltammetric Determination of Penicillin V in Sodium Dodecyl Sulfate Containing Media on Glassy Carbon Electrode, International journal of basic and applied research (IJSBAR) 2018 vol.42 PP 144-155
- **Joshua M. Sila**, Geoffrey N. Kamau, Immaculate Michira, Francis B. Mwaura, Irene kiio, Emmanuel Ewuoha. Green synthesis of silver nanoparticles using *Eucalyptus corymbia* leaves extract and antimicrobial applications. International Journal of BioChemPhysics, Vol. 22, December 2014.
- **Joshua M. Sila**, Michira Immaculate Nyambura, Deborah Atieno Abong'o, Francis B. Mwaura, Emmanuel Iwuoha. Biosynthesis of Silver Nanoparticles from *Eucalyptus Corymbia* Leaf Extract at Optimized Conditions. Nano hybrids and composites, April 2019, vol.25, pp 32-45.

Referees

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