

Curriculum Vitae

Name:Dr. Anthony Masika Sokoli Pembere, PhD

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https://scholar.google.com/citations?view_op=list_works&hl=en&hl=en&user=NwjA79oAAAAJ&srby=pubdate

EDUCATIONAL BACKGROUND

Sept. 2015 to June 2019:PhD Chemistry. Institute of Chemistry, Chinese Academy of Sciences, Beijing, China.

‘Catalysis by Small Metal Clusters’.Supervisor; Prof. ZhixunLuo

Sept. 2009 to July 2014:MSc. chemistry, University of Nairobi, Kenya.

‘Investigation of heavy metal levels in soil and food crops in the western region of Kenya’. Supervisors; Prof. D.K Kariuki and Dr. F.D.O.Oduor

April 2003 to July 2007:BSc.(2nd Class Honors, upper division), Analytical Chemistry, Jomo Kenyatta University of Agriculture and Technology, Kenya.

‘Investigation of heavy metal levels in Honey from Kitui, Kenya’. Supervisor; Prof. SarimaChacha

Feb.1998-Dec. 2001:Kenya certificate of secondary education, B (plain), Teremi High School, Kenya.

HONORS AND AWARDS

July 2022: Awarded a grant of Euro 2,500 inconnection with the Atomistic Simulations, Electronic Structure, Computational MaterialsScience and Applications: African Networking with Europa (ASESMANET-EU). The grant wasa contribution towards my participation at the Psi-kconference (Lausanne, Switzerland) from 22 to 25 August 2022.

June 2022. Awarded the Royal Society of Chemistry Inclusion and Diversity Fund (“RSC”) grant of £4800 to fund my proposal, titled, ‘*Investigating the Sexual Orientation Identities in General Chemistry Classrooms of Kenyan Universities*’

June 2022: Awarded the Royal Society of Chemistry Inclusion and Diversity Fund (“RSC”) of £5000 to fund our proposal titled, ‘*Advancing Science in Primary Schools of Western Kenya*’, in partnership with Dr. Solomon LugasiOmwoma.

July 2019: Worn a Merit Award-Excellent international graduate student of Chinese Academy of Sciences, 2019

June 2018: Worn a Merit Award- Excellent international student of Chinese Academy of Sciences, 2018

June 2015: Awarded a competitive Fellowship by the CAS/TWAS Presidential Fellowship Initiative for international students to study a PHD in Chemistry at the State Key Laboratory for Structural Chemistry of Stable and Unstable Species, Institute of Chemistry, Chinese Academy of Sciences, Beijing, China

UNDERGRADUATE AND POSTGRADUATE TEACHING

Nov. 2019-Present: **Chemistry Lecturer**, Department of Physical Science, JaramogiOgingaOdinga University of Science and Technology(JOOST), Bondo – Kenya.

Undergraduate courses

SCH 408: Statistical Thermodynamics; SPB 9205 Analytical Chemistry

Every fall semester since joining JOOST

SPB 9312: Alicyclic and heterocyclic chemistry; SPB 9303 Methods of Chemical Analysis

Every spring semester since joining JOOST

Postgraduate courses

SH 5104:Analytical separations

Every fall semester since joining JOOST

SCH 5110: Analytical laboratory-instrumental methods of analysis

Every spring semester since joining JOOST

Training of postgraduate students

2019 to Present: Fred SifunaWanyonyi, A PhD student, working on the ‘Experimental and computational study of the adsorption of organic and inorganic pollutants from water by selected metal-organic frameworks and zeolites’.Expected graduation date, December 2022.

Jan 2022 to Present: Douglas Sifuna, A PhD student, working on the ‘Assessment of acaricide residues in trans nzoia county and mechanism of their adsorption by zeolites’, under the ECSDevelop project funded by the Austrian government.Expected graduation date, December 2025.

UNIVERSITY SERVICE

July 2020-Present: **Departmental Timetabling and Examination Officer**, Department of Physical Science, JaramogiOgingaOdinga University of Science and Technology, Bondo – Kenya.

WORK EXPERIENCE

June 2008 to July 2013: **Quality Analyst**, East African Breweries Limited, Kenya.

Involved in driving continuous improvement of quality, environmental and occupational health and safety management systems within the departments.

Presentations at conferences, symposia & workshops attended:

- I. Attended and presented a poster at the Psi-k conference (Lausanne, Switzerland) from 22 to 25 August 2022.
- II. Attended the inception and stakeholders engagement workshop for the ECSDDevelop project at Makerere University Uganda from 7 to 8th June 2022
- III. Attended the EPFL/ETHZ Summer School titled "Big Data and Machine Learning for Chemistry" (BDML4Chem), which took place from June 7th to June 9th, 2021 in Lausanne in a hybrid online/live format
- IV. Attended and presented a poster at Midlands Computational Chemistry Meeting. A virtual event held on 6th and 7th January 2021. <https://eu.bbcollab.com/guest/ea9c0d1ac8243c592885981cb300c7b>
- V. Attended and presented a poster at Optical functional materials and electrochemical symposium, held at Xian, China. 12-15th August 2018
- VI. Attended a summer school on frontier and interdisciplinary research, Beijing, China. 10-13 July 2017
- VII. Attended a winter school on frontier and interdisciplinary research, Quanzhou, China. 6-10 January 2016

Professional affiliation:

January 2021 - Now: Member, Royal Society of Chemistry (RSC).

August 2022 - Now: Member, Kenya Chemical Society (KCS).

Thesis and Article Review Assignments:

2022: Reviewed a Master of Science in Physics thesis, titled, 'Correlation between preparation methods and optical and optical properties of chitosan from shrimp for application in optoelectronic devices' for Edwin Atego, a student in the department of Physical science, JOOUST.

2021: Elsevier Reviewer: Computational Material Science Journal

2021: Health Analytics

2021: Journal of the Taiwan Institute of Chemical Engineers

2022: Journal of Physics and Chemistry of Solids

2022: Journal of Photochemistry and Photobiology

Referees

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- 2) Prof. ZhixunLuo, PhD
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