

VICTOR SHIKUKU- CURRICULUM VITAE

Dr. Victor Shikuku, PhD, AMRSC

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RESEARCH INTERESTS

- Materials Chemistry: Tunability of microporous and mesoporous materials for wastewater treatment
- Geopolymers and cementitious materials
- Environmental Chemistry and Climate Action
- Antimicrobial resistance in soil and water

ACADEMIC QUALIFICATIONS

Doctor of Philosophy in Physical Chemistry (PhD)	Maseno University	Awarded on 21 st December, 2018
Masters of Science (MSc) in Chemistry	Maseno University	Awarded on 12 th December, 2014
Bachelor of Science (Basic Sciences) with IT	Maseno University	Awarded on 10 th December, 2010 [1 st Class Honors]
Kenya certificate of secondary education (K.C.S.E)	Jamhuri High School	Awarded in 2004 [Grade A- (minus)]
Kenya Certificate of primary education (KCPE)	St. Teresa's Boys Primary School	Awarded in 2000 [504/700 marks]

WORK EXPERIENCE

Lecturer	Kaimosi Friends University	January 2019 to date
Tutorial Fellow	Kaimosi Friends University College	Sept. 2017 to Dec 2018
Head of Laboratory	CSI International Ltd	Jan. 2015 to date
Part-time lecturer	Maseno University	January 2017 to date
Teaching Assistant	Masinde Muliro University of Science and Technology	September 2011 to December 2014

ADMINISTRATIVE RESPONSIBILITIES

Ag. Director	Directorate of Examinations	1 st Dec 2023 to date
Coordinator, University timetabling and examinations	Timetabling Office	Jan 2019 to 31 st Nov 2023
Chair, School Graduate Studies Committee (SGSC)	School of Science	Jan 2019 to Dec 2021
School examinations coordinator	School of Science	Jan 2018 to Dec 2019
Departmental examinations coordinator	Department of Physical Sciences	Jan 2018 to Dec 2019

RESEARCH STAYS ABROAD

Trier University, Germany	Postdoc Research visit	15 th July-31 st Dec 2019
CSIR-National Metallurgical Laboratory, India	PhD Research visit	16 th December 2017 to 15 th March 2018
Laboratory of Pesticides Residues Analysis (LARP), Federal University of Santa Maria (UFSM)- Brazil	PhD Research visit	1 September 2015 to 26 February 2016

VICTOR SHIKUKU- CURRICULUM VITAE

Laboratory of Pesticides Residues Analysis (LARP), Federal University of Santa Maria (UFMSM)-Brazil	Masters Research visit	1 July to 30 September 2013
CONFERENCES AND SEMINARS/WORKSHOPS AS LECTURER		
“The UoE Chemical science conference” held virtually on 16-18 th March, 2022, Kenya- <i>Oral presentation</i>		
ALL-IN Capacity Building Workshop; Research Grant Proposal Development Workshop, held on 2 nd -4 th November 2021, United States International University, Kenya		
“Sub-Saharan Africa Conference on Water Resources Management in Africa” held virtually on 28-29 th October, 2021, Ghana- <i>Oral presentation</i>		
“The Alexander Von-Humboldt-Kenya ‘Kollegs’ Conference”, held virtually on 5-8 th October 2021, Kirinyaga University, Kenya- <i>Oral presentation</i>		
The QMS ISO/IEC 17025:2017 Testing and Calibration Implementation Course by ChromAfrica held on 25-26 February 2021, Kisumu-Kenya		
“Holistic approach to water Resources Management in Africa” Workshop, held on 3 rd -8 th June 2018, University of Yaounde I, Yaounde-Cameroon- <i>Oral presentation</i>		
Regional training on “Water and Wastewater Treatment” held on April 28- May 4, 2013, University of Malawi (Chancellor College), Zomba City-Malawi		
Expert Seminar on “Water Issues in Megacities” held on March 3-10, 2013- Ho Chi Minh City-Vietnam- <i>Oral presentation</i>		
AWARDS, GRANTS AND FELLOWSHIPS		
Kaimosi Friends University Research Fund, 2022 (KSh. 150,000): <i>Development of Feldspar/Solid Wastes Incineration Fly ash Blends Geopolymers: Experimental and Theoretical Analysis and applications</i>		
Alexander von Humboldt Foundation, Research Group Linkage Programme 2022 Grant (55,000 Euros), for Research project “Enhanced Selective Immobilization of Sulfonamides in Manure onto Functionalized Hydrochars” (Collaborators: Prof. Dr. Thiele-Bruhn (PI), Trier University-Germany, Prof. Z. Getenga, Machakos University-Kenya (PI), Dr. V. Okello, Machakos University-Kenya (Co-PI), Dr. V. Shikuku (Co-PI): contacts: zgetenga@gmail.com /0729171505)		
Grant period: 1 st July 2022-30 th June 2025		
Alexander von Humboldt Foundation, post-doctoral fellowship 2019, for Research visit at Trier University, Germany (15,600 Euros)		
The reagent project, Equipment Donation , 2019. Equipment worth: 14,398 USD		
C.V Raman International Fellowship for African Researchers 2016, for Research Visit at the CSIR-National metallurgical Laboratory, Jamshedpur-India		
National Research Fund (NRF)-Govt. of Kenya, 2016 PhD Research grant: 1,050,000 KShs.		
Exceed-SWINDON, PhD scholarship 2015-2016, for Research Stay at Federal University of Santa Maria, Brazil		
Exceed-Excellence Centre for Development Cooperation, MSc Scholarship 2013, for Research Stay at Federal University of Santa Maria, Brazil		
NCST and Science, Technology and Innovation Research Grant 2012/13 Grant for Masters research		
Masinde Muliro University of Science and Technology Staff Development Scholarship for Masters in Physical Chemistry, 2011		
PUBLICATIONS AS LECTURER (2019 TO DATE)		
Books	<ul style="list-style-type: none"> • Shikuku V.O (2023). Artificial Intelligence Applications in Water Treatment and Water Resource Management. IGI Global Publishers. ISBN13: 9781668467916. DOI: 10.4018/978-1-6684-6791-6 	

	<ul style="list-style-type: none"> • Shikuku V.O (2020). Effects of Emerging Chemical Contaminants on Water Resources and Environmental Health. IGI Global Publishers. ISBN13: 9781799818717. DOI: 10.4018/978-1-7998-1871-7
<p>Book Chapters</p>	<ul style="list-style-type: none"> • Nyairo W.N., Shikuku V.O. (2023). Titanium Oxide for Photodegradation of Organic Pollutants: Synthesis, Limitations, and Future Prospects: In Kumar A. (Ed). Innovative Multifunctional Nanomaterial for Photocatalysis, Sensing, and Imaging. pp 171-184. IGI Global Publishers. ISBN13: 9781668487433. DOI: 10.4018/978-1-6684-8743-3.ch004 (chapter 4) • Shikuku V.O., Masinde N. (2023). Machine Learning Applications in Adsorption of Water Pollutants: In Shikuku V. (Ed). Artificial Intelligence Applications in Water Treatment and Water Resource Management. pp 1-30. IGI Global Publishers. ISBN13: 9781668467916. DOI: 10.4018/978-1-6684-6791-6.ch001(chapter 1) • Singh, H., Shikuku, V. (2023). Edible Insects as Materials for Food Printing: Printability and Nutritional Value. In: Singh, D., Kumar, R., Singh, S., Ramniwas, S. (eds) 3D Printing of Sustainable Insect Materials. Springer, Cham. https://doi.org/10.1007/978-3-031-25994-4_6 • Shikuku, V.O., Ngeno, E.C., Njewa, J.B. and Ssebugere, P. (2023). "Pharmaceutical and personal care products (PPCPs) and per- and polyfluoroalkyl substances (PFAS) in East African water resources: progress, challenges, and future". Basic Sciences for Sustainable Development: Water and the Environment, edited by Ponnadurai Ramasami, Berlin, Boston: De Gruyter, pp. 21-38. https://doi.org/10.1515/9783111071206-002 • Nyairo W.N., Shikuku V.O., Sanou Y. (2022). Carbon Nanotubes in Water Treatment: Progress and Challenges: In Kumar A. (Ed). Innovative Nanocomposites for the Remediation and Decontamination of Wastewater. pp 171-184. IGI Global Publishers. ISBN13: 9781668445532. DOI: 10.4018/978-1-6684-4553-2.ch009 (chapter 9) • Nyasani M., Shikuku V.O. (2022). Life Cycle Assessment of Biofuels; Challenges and Opportunities: In Rathoure K. and Khade S. (Eds). Biomass and Bioenergy Solutions for Climate Change Mitigation and Sustainability. IGI Global Publishers. ISBN13: 9781668452691. DOI: 10.4018/978-1-6684-5269-1.ch002 (Chapter 2) • Shikuku V.O, Achieng' G.O., Ssebugere P. (2022). Towards sustainable use of algae as adsorbents for wastewater treatment: In El-Sheekh M., Abdullah N., Ahmad I. (Eds). Examining Algae as a Sustainable Solution for Food, Energy, and the Environment. pp 547-561. IGI Global Publishers. ISBN13: 9781668424384. DOI: 10.4018/978-1-6684-2438-4.ch022 (Chapter 22) • Shikuku V.O, Nyairo W.N., Kowenje C.O. (2021). Fundamentals and Sources of Magnetic nanocomposites and their Sorption Properties: In Research Anthology on Synthesis, Characterization and Applications of Nanomaterials. pp 636-655. IGI Global Publishers. DOI: 10.4018/978-1-7998-8591-7.ch028 (Chapter 28) • Nyairo W.N., Ng'eno E., Shikuku V.O and Ssebugere P. (2021). Application of Metal-Organic Framework Adsorbents for Water Defluoridation: In Shimaa M., Elsayed Z., and Abdel-Azim A. (Eds). Emerging Applications and Implementations of Metal-Organic Frameworks. Pp 74-91. IGI Global Publishers. ISBN13: 9781799847618. DOI: 10.4018/978-1-7998-4760-1.ch005 (Chapter 5) • Kwach B., Shikuku V.O (2020). Microplastics as Emerging Contaminants: Occurrence, Toxicology, and Analysis: In Shikuku V.O (Editor). Effects of Emerging Chemical Contaminants on Water Resources and Environmental Health. pp. 31-44. IGI Global

	<p>Publishers. ISBN13: 9781799818717. DOI: 10.4018/978-1-7998-1871-7.ch03 (Chapter 3)</p> <ul style="list-style-type: none"> • Ng'eno E., Shikuku V.O (2020). Emerging Contaminants: Pollution Control and Abatement. In Shikuku V.O (Editor). Effects of Emerging Chemical Contaminants on Water Resources and Environmental Health. pp. 172-192. IGI Global Publishers. ISBN13: 9781799818717. DOI: 10.4018/978-1-7998-1871-7.ch010 (Chapter 10) • Shikuku V.O, and Wilfida N. Nyairo (2020). Preparation and Application of Polymer-Metal Oxide Nanocomposites in Wastewater Treatment; Challenges and Potentialities: In Gabriele Clarizia and Paola Bernardo (Editors) Diverse Applications of Organic-Inorganic Nanocomposites: Emerging Research and Opportunities. pp 83-102. IGI Global Publishers. ISBN13: 9781799803119. DOI: 10.4018/978-1-7998-1530-3.ch04 (Chapter 4) • Shikuku V.O, Achieng' G.O, Kowenje C.O (2019). Removal of Dyes from Wastewater by Adsorption onto Low-cost Adsorbents: In Khursheed A. Wani & Nirmala K. Jangid (Editors) Impact of Textile Dyes on Public Health and the Environment. pp 239-257. IGI Global Publishers. ISBN13: 9781799803119. DOI: 10.4018/978-1-7998-0311-9.ch011 (Chapter 11) • Shikuku V.O, and Nyairo W.N. (2019). Advanced Oxidation Processes for Dye Removal from Wastewater: In Khursheed A. Wani & Nirmala K. Jangid (Editors) Impact of Textile Dyes on Public Health and the Environment. pp 205-238. IGI Global Publishers. ISBN13: 9781799803119. DOI: 10.4018/978-1-7998-0311-9.ch010 (Chapter 10) • Shikuku V.O and Tome S. (2019). Application of Geopolymer Composites in Wastewater Treatment; Trends, Opportunities and Challenges: In Noureddine Ramdani (Editor) Polymer Nanocomposites for Advanced Engineering and Military Applications. pp 131-149. IGI Global Publishers. ISBN13: 9781522578383. DOI: 10.4018/978-1-5225-7838-5 (Chapter 5)
<p>PEER REVIEWED JOURNAL ARTICLES</p>	
<p>2023</p>	<ul style="list-style-type: none"> • Taquieteu I.K., Tamaguelon, H. D., Shikuku, V., Banenzoué C., Dina D.J (2023). Fixed-Bed Adsorption of an Azo Dye (Methyl Orange) onto Chemically and Thermally Regenerated Activated Carbons. Journal of Chemistry, vol. 2023, https://doi.org/10.1155/2023/6677710 • Sylvain, T., Tamaguelon, H. D., Shikuku, V., Nana, A., Etoh, M. A., Rüscher, C., & Etame, J. (2023). Elimination of malachite green from aqueous and saline water by laterite-derived Na-polyferrosialate and polyferrophosphosialate geopolymers: A comparative study. Ceramics International. https://doi.org/10.1016/j.ceramint.2023.11.252 • Sidjou, A. S., Tchakounte, A. N., Shikuku, V., Lenou, I., Djimtibaye, R., & Dika, M. M. (2023). Synthesis of alkali-activated volcanic scoria and rice husk ash based composite materials for adsorptive removal of crystal violet: Optimization, kinetics, isotherms and mechanism. Hybrid Advances, 4, 100113. https://doi.org/10.1016/j.hybadv.2023.100113 • Njewa, J. B., & Shikuku, V. O. (2023). Recent advances and issues in the application of activated carbon for water treatment in Africa: A systematic review (2007–2022). Applied Surface Science Advances, 18, 100501. https://doi.org/10.1016/j.apsadv.2023.100501 • Jacques, M.B., Guy, N.P., Jules, M.L. Harlette Z.P., Maffeu E.J., Said M., Doungmo G., Shikuku V.O., Tchieta G., Kamdem F. (2023). Removal of crystal violet by TiO₂ loaded alkali-activated carbon hybrid material from <i>Raphia farinifera</i> fruit kernels: surface chemistry, parameters and mechanisms. Biomass Conv. Bioref. https://doi.org/10.1007/s13399-023-04988-y

	<ul style="list-style-type: none"> • Ngeno, E., Ongulu, R., Orata, F., Matovu, H., Shikuku, V., Onchiri, R., Mayaka, A., Majanga, E., Getenga, Z., Gichumbi, J., & Ssebugere, P. (2023). Endocrine disrupting chemicals in wastewater treatment plants in Kenya, East Africa: Concentrations, removal efficiency, mass loading rates and ecological impacts. <i>Environmental Research</i>, 237, 117076. https://doi.org/10.1016/j.envres.2023.117076 • Owino, E. K., Shikuku, V. O., Nyairo, W. N., Kowenje, C. O., & Otieno, B. (2023). Valorization of solid waste incinerator fly ash by geopolymer production for removal of anionic bromocresol green dye from water: Kinetics, Isotherms and Thermodynamics studies. <i>Sustainable Chemistry for the Environment</i>, 100026. https://doi.org/10.1016/j.scenv.2023.100026 • Tome S, Shikuku V.O, Hermann D, Akiri S, Etoh M, Rüscher C, Etame J. (2023). Efficient sequestration of Malachite green in aqueous solution by laterite-rice husk ash-based alkali-activated materials: Parameters and mechanism. <i>Environ Sci Pollut Res</i>. https://doi.org/10.1007/s11356-023-27138-3 • Luttah, I., Onunga, D., Shikuku, V.O., Otieno, B., & Kowenje, C. (2023). Removal of Endosulfan from water by Municipal Waste Incinerator Fly Ash based Geopolymers: Adsorption Kinetics, Isotherms, and Thermodynamics. <i>Frontiers in Environmental Chemistry</i>, 4,1164372. https://doi.org/10.3389/fenvc.2023.1164372
2022	<ul style="list-style-type: none"> • Shikuku V.O., Tome S., Dzoujo T. H., Tompsett G., Timko M. (2022). Rapid adsorption of cationic methylene blue dye onto volcanic ash-metakaolin based geopolymers. <i>Silicon</i>, https://doi.org/10.1007/s12633-021-01637-9 • Okello, V.A., K'Owino, I., Masika, K., Shikuku, V.O. (2022). Reduction and Degradation of Paraoxon in Water Using Zero-Valent Iron Nanoparticles. <i>Sustainability</i>, 14(15), 9451; https://doi.org/10.3390/su14159451 • Hermann T. D., Tome S., Shikuku V.O., Tchuigwa J.T., Spieß A., Janiak C., Etoh A., Dina D. (2022). Synthesis of pozzolan and sugarcane bagasse derived geopolymer-biochar composites for methylene blue sequestration from aqueous medium. <i>J. Environ. Manage.</i> 318, 115533. https://doi.org/10.1016/j.jenvman.2022.115533 . • Kimosop, S., Okello, V.A., Shikuku, V.O., Orata, F., Getenga, Z.M. (2022). Synthesis of mesoporous akaganeite functionalized maize cob biochar for adsorptive abatement of carbamazepine: kinetics, isotherms, and thermodynamics. <i>J. Clean. Mater.</i> https://doi.org/10.1016/j.clema.2022.100104 • Ssepuya, F., Odongo, S., Bandowe, B., Abayi, J., Olisah, C., Matovu, H., Mubiru, E., Sillanpää, M., Karume, I., Kato, C., Shikuku V.O., Ssebugere, P. (2022). Polycyclic aromatic hydrocarbons in breast milk of nursing mothers: Correlates with household fuel and cooking methods used in Uganda, East Africa. <i>Sci. Total. Environ.</i> 842, 156892 https://doi.org/10.1016/j.scitotenv.2022.156892 • Ngeno E., Mbuci E., Necibi M., Shikuku V.O., Olisah C., Ongulu R., Matovu H., Ssebugere P., Abushaban A., Sillanpaa M (2022). Sustainable re-utilization of waste materials as adsorbents for water and wastewater treatment in Africa: Recent studies, research gaps, and way forward for emerging economies. <i>Environ. Adv.</i> 9, 100282. https://doi.org/10.1016/j.envadv.2022.100282 • Chimi T., Hannah U., Nintedem M. L., Mboumbouo B.J. Tome S., Hermann D.T., Shikuku V.O., Bissoue A., Tchieta G.P., Meva F. (2022). Preparation, characterization and application of H₃PO₄-activated carbon from <i>Pentaclethra macrophylla</i> pods for the removal of Cr(VI) in aqueous medium. <i>J. Iran. Chem. Soc.</i> https://doi.org/10.1007/s13738-022-02675-9

	<ul style="list-style-type: none"> Mbithi B. M., Shikuku V.O., Getenga Z. M., Lalah J. O., Wandiga S. O., Rothballer M. (2022). Enhanced hexazinone degradation by a <i>Bacillus species</i> and <i>Staphylococcus species</i> isolated from pineapple and sugarcane cultivated soils in Kenya. <i>Environ. Chem. Ecotoxicol.</i>, 4, 106-112 https://doi.org/10.1016/j.eneco.2022.02.002
2021	<ul style="list-style-type: none"> Tome, S., Dzoujo, H., Shikuku, V., Otieno, S. (2021). Synthesis, characterization and application of acid and alkaline activated volcanic ash-based geopolymers for adsorptive removal of cationic and anionic dyes from water. <i>Ceram. Int.</i> 47(15), 20965-20973 https://doi.org/10.1016/j.ceramint.2021.04.097 Dzoujo T. H., Tome S., Shikuku V.O., Tchuigwa J.T., Spieß A., Janiak C., Etoh A., Dina D. (2021). Enhanced performance of hydrogen peroxide modified pozzolan-based geopolymer for abatement of methylene blue from aqueous medium. <i>Silicon</i>, https://doi.org/10.1007/s12633-021-01264-4 Shikuku V.O, Mishra T. (2021). Adsorption isotherm modeling for methylene blue removal onto magnetic kaolinite clay: A comparison of two-parameter isotherms. <i>Appl. Water Sci.</i>, 11, 103. https://doi.org/10.1007/s13201-021-01440-2 Mbithi B. M., Shikuku V.O., Getenga Z. M., Lalah J. O., Wandiga S. O., Rothballer M. (2021). Adsorption-desorption and leaching behavior of diuron on selected Kenyan agricultural soils. <i>Heliyon</i>, 7(2), e06073. https://doi.org/10.1016/j.heliyon.2021.e06073 Osewe E.T., Shikuku V.O., Pereira, C.A., Otieno, S., Okoyo A. (2021). Effects of different types of zeolites on the degradation kinetics of malathion pesticide in water. <i>Chem. Sci. Int. J.</i>, 30(4) 38-49 Kowenje C.O., Onyango D.M., Okwiri L., Shikuku V.O., Sifuna A., Omondi E., Barasa D., Oduor A., Lung'ayia H., Owigar R., Otuya P. (2021). Effects of temperature and humidity and effectiveness of some selected antioxidants on lipid oxidation of fresh Nile tilapia (<i>Oreochromis niloticus L.</i>) of Lake Victoria, Kenya. <i>Int. Res. J. Environ. Sci.</i> 10(1), 39-47
2020	<ul style="list-style-type: none"> Marete, G.M., Shikuku, V.O., Lalah, J.O., Mputhia, J., Wekesa, V.W. (2020). Occurrence of pesticides residues in French beans, tomatoes and kales in Kenya, and their human health risk indicators. <i>Environ. Monit. Assess.</i>, 192, 692. https://doi.org/10.1007/s10661-020-08662-y Mbithi B. M., Shikuku V.O., Lalah J. O., Getenga Z. M., Wandiga S. O., Rothballer M. (2020). Enhanced degradation of diuron by two <i>Bacillus species</i> isolated from diuron contaminated sugarcane and pineapple-cultivated soils in Kenya. <i>Appl. Soil Ecol.</i>, 157 (2021) 103721. https://doi.org/10.1016/j.apsoil.2020.103721 Shikuku V.O. and Kimosop, S. (2020). Efficient removal of sulfamethoxazole onto sugarcane bagasse-derived biochar: Two and Three-parameter isotherms, kinetics, thermodynamics. <i>S. Afr. J. Chem.</i>, 73,111-118. http://dx.doi.org/10.17159/0379-4350/2020/v73a16 Achieng', G.O., Shikuku, V.O (2020). Adsorption of copper ions from water onto fish scales derived biochar: Isothermal perspectives. <i>J. Mater. Environ. Sci.</i>, 11, 1816-1827
2019	<ul style="list-style-type: none"> Kimosop, S., Orata, F., Shikuku, V.O., Okello, V.A., Getenga, Z.M. (2019). Insights on adsorption of carbamazepine onto iron oxide modified diatomaceous earth: Kinetics, isotherms, thermodynamics, and mechanisms. <i>Environ. Res.</i>, 180, 108898. https://doi.org/10.1016/j.envres.2019.108898 Ng'eno, E., Shikuku V.O., Orata, F., Lilechi, D.B., Kimosop, S. (2019). Caffeine and Ciprofloxacin Adsorption from water onto clinoptilolite: Linear isotherms, kinetics, thermodynamics and mechanistic studies. <i>S. Afr. J. Chem.</i>, 72,136-142. http://dx.doi.org/10.17159/0379-4350/2019/v72a17

	<ul style="list-style-type: none"> • Achieng'G.O., Shikuku V.O., Andala, D.M., Okowa, G.M., Owuor, J.J (2019). Assessment of the water quality of the Nyando River (Muhoroni-Kenya) using the water quality index (WQI) method. <i>Int. Res. J. Environ. Sci.</i> 8(2) 27-33
PUBLICATIONS AS TUTORIAL FELLOW (2014-2018)	
Book Chapters	<ul style="list-style-type: none"> • Shikuku V.O., Winfida N. Nyairo, Chrispin O. Kowenje (2018). Preparation and Application of Biochars for Organic and Microbial Control in Wastewater Treatment Regimes: In Athar Hussein (Editor) <i>Advanced Treatment Techniques for Industrial Wastewater</i>. pp 19-34. IGI Global Publishers. ISBN13: 9781522557548 DOI: 10.4018/978-1-5225-5754-8.ch002 (Chapter 2) • Shikuku V.O., George O. Achieng' (2018). Occurrence and Fate of Selected Heavy Metals in a Conventional Municipal Wastewater Treatment Plant in Kisumu City: A Case Study: In Athar Hussein (Editor) <i>Advanced Treatment Techniques for Industrial Wastewater</i>. pp 211-224. IGI Global Publishers. ISBN13: 9781522557548 DOI: 10.4018/978-1-5225-5754-8.ch012 (Chapter 12) • Shikuku V.O., Winfida N. Nyairo, Chrispin O. Kowenje (2017). Fundamentals and Sources of Magnetic nanocomposites and their Sorption Properties: In Tawfik A. Saleh (Editor) <i>Advanced Nanomaterials for Water Engineering, Treatment and Hydraulics</i>. pp 58-82. IGI Global Publishers. ISBN13: 9781522521365. DOI: 10.4018/978-1-5225-2136-5 (Chapter 4)
PEER REVIEWED JOURNAL ARTICLES	
2018	<ul style="list-style-type: none"> • Shikuku, V.O., Zanella, R., Kowenje C.O., Filipe F. Donato., Nelson Bandeira, Prestes, O.D. (2018). Single and Binary Adsorption of sulphonamide antibiotics onto iron-modified clay: Linear and nonlinear Isotherms, Kinetics, thermodynamics and mechanistic studies. <i>Applied Water Science</i>, 8:175 https://doi.org/10.1007/s13201-018-0825-4 • Shikuku V.O., Kowenje C.O., Kengara, F. (2018). Errors in Parameters Estimation using Linearized Adsorption Isotherms: Sulfadimethoxine Adsorption onto Kaolinite Clay. <i>Chemical Science International Journal</i>, 23 (4), 1-6
2017	<ul style="list-style-type: none"> • Shikuku, V.O., Zanella, R., Kowenje C.O., Filipe F. Donato., Nelson Bandeira, Prestes, O.D. (2017). Single and Competitive removal of sulfachloropyridazine and Sulfadimethoxine onto natural kaolinite clay: Kinetics, Isotherms and thermodynamics. <i>South Africa Journal of Chemistry</i>, 70, 120-127 • Shikuku, V.O., Achieng', G.O., Ng'eno, E., Okowa, G.M., Masitsa, G.A., Owuor, J.J. (2017). Distribution and Removal Efficiency of heavy Metals by a Conventional Activated Sludge at a Municipal Wastewater treatment Plant in Kisumu City-Kenya. <i>Research Journal of Chemical Science</i> 7(8), 19-25 • Jemutai-Kimosop, S., Okello, V.O., Orata, F., Getenga, Z.M., Shikuku, V.O. (2017). Green Remediation of carbamazepine from water using iron modified carbonized bagasse: kinetics, equilibrium and mechanistic studies. <i>Chemical Science International Journal</i> 18(3), 1-9
2016	<ul style="list-style-type: none"> • Ng'eno, E., Orata, F., Lilechi, D.B., Shikuku V.O., Kimosop, S. (2016). Adsorption of caffeine and ciprofloxacin onto pyrolytically derived water hyacinth biochar: Isothermal, kinetics and thermodynamics. <i>Journal of Chemistry and Chemical Engineering</i> 10, 185-194
2015	<ul style="list-style-type: none"> • Shikuku V.O., Filipe F. Donato., Kowenje C.O., Zanella, R., Prestes, O.D. (2015). A comparison of adsorption equilibrium, kinetics and thermodynamics of aqueous phase

	clomazone between Faujasite X and a Natural zeolite from Kenya. South Africa Journal of Chemistry, 68, 245-252
2014	<ul style="list-style-type: none"> • Shikuku V.O., Kowenje C.O., Onger, D.M.K., Zanella, R., Prestes, O.D. (2014). Removal of Tebuconazole from wastewater by zeolite X: kinetics and thermodynamic studies. International Journal of Engineering, Research and Technology, 3(8), 1584-1590

POSTGRADUATE SUPERVISION

- Isaac Lutah (MSC/SC/00020/2018): Master of Science in Chemistry, Maseno University
- Owino Eugene (MSC/SC/00010/2018): Master of Science in Chemistry, Maseno University
- Majorie Moraa (S56-6902-2020): Master of Science in Chemistry, Machakos University
- Dorothy Auma Wafula: Master of Science in Physics, Kaimosi Friends University
- Mary Oriaro (PG/MS/00058/2012): Master of Science in Chemistry, Maseno University

TECHNICAL REPORTS/CONSULTANCY

Scientific Report on Pesticides in Kenyan Market (2021). https://routetofood.org/wp-content/uploads/2021/09/Scientific-Report-on-Pesticides-in-the-Kenyan-Market-Report_Final-1.pdf on behalf of Heinrich Böll Stiftung (Contact person: Layla.liebetau@ke.boell.org)

PROFESSIONAL BODIES

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