



# THE TECHNICAL UNIVERSITY OF KENYA

Haile Selassie Avenue, P.O. Box 52428, Nairobi, 00200, Tel +254(020) 343672, 2249974, 2251300, 341639

Fax 2219689, Email: vc@tukenya.ac.ke, Website: www.tukenya.ac.ke

NAME: DR EDISON OMOLLO ODUOR

Faculty:	Social Sciences and Technology
School:	HOSPITALITY AND HUMAN ECOLOGY
Department:	FASHION, CLOTHING, AND TEXTILES
Current Designation:	Assistant Lecturer, FASHION, CLOTHING AND TEXTILES (DFCT)
Office Telephone:	+254(020) 2219929, 3341639, 3343672
Official Email:	edison.omollo@tukenya.ac.ke
Consultation Hours:	8AM-5PM MON - FRI



## EDUCATION

LEVEL	QUALIFICATION NAME	INSTITUTION	YEAR
Doctor of Philosophy (PhD)	TEXTILE TECHNOLOGY	THE TECHNICAL UNIVERSITY OF KENYA(Kenya)	2021
Master of Engineering (M.Eng)	TEXTILE ENGINEERING	DONGHUA(China)	2014
Bachelor of Technology (B.Tech)	TEXTILE ENGINEERING	MOI UNIVERSITY(Kenya)	2010

## WORK EXPERIENCE

PERIOD	INSTITUTION	POSITION
September, 2014 - To Date	The Technical University of Kenya	Assistant Lecturer
August 2019 - September 2019	HEVA Fund PLC	Research Consultant
August 2016 - May 2019	Machakos University	Sessional Lecturer
May, 2014 - August, 2014	Moi University	Tutorial Fellow
November, 2010 - August, 2011	Kenya Bureau of Standards	Assistant Testing Officer

## GENERAL STATEMENT ON RESEARCH AREAS

A Textile Engineer skilled in textile processing and manufacturing, textile testing, fabric design and construction, textile finishing (dyeing and printing), clothing comfort, polymers, polymer processing and characterization techniques. Research interests include but not limited to; electrospinning of polymeric textile fibers for various applications, nonwovens, textile fabric modification and textile testing.

## CURRENT RESEARCH PROJECTS

SELECTED PUBLICATIONS

TITLE	LINK TO PULICATION
<b>E. Omollo, C. Y. Zhang,</b> W. J. Liu, N. Sizo, "A Study of Optimum Conditions for Electrospinning Cellulose Acetate Nanofibers in Trifluoroacetic Acid Solvent", ...	<a href="#">Advanced materials research,750,323-327</a>
Ndlovu, L.N., Siddiqui, Q., Omollo, E., and Chongwen, Y., Physical properties of plain single jersey knitted fabrics made from blended and core spun polysulfonamide (PSA)/cotton yarns	<a href="http://trj.sagepub.com/content/early/2014/08/07/0040517514542145.abstract">http://trj.sagepub.com/content/early/2014/08/07/0040517514542145.abstract</a>
Omollo, E., Zhang, C.Y., Mwasiagi, J.I., Tusimire, Y., and Ndlovu, L., A Study of the Effects of Aging the Spinning Solution during the Electrospinning of Cellulose Acetate Nanofibers	<a href="http://www.publicationhosting.org/toc/article.php?id=5955">http://www.publicationhosting.org/toc/article.php?id=5955</a>
Fredrick Nzioka, Edison Omollo, Edwin Khamala, Josphat Mwasiagi, Lucy Ciera and Yimin Wang. A Study of the Characteristics of Hollow Glass Microspheres Reinforced Thermoplastic Polyurethane Composite Foam	<a href="http://www.updi.info/22498877.6/496655">http://www.updi.info/22498877.6/496655</a>
Omollo, E., Zhang, C.Y., Mwasiagi, J.I., and Ncube, S., Electrospinning Cellulose Acetate Nanofibers and a study of their possible use in High Efficiency Filtration	<a href="http://jit.sagepub.com/content/early/2014/06/18/1528083714540696.abstract">http://jit.sagepub.com/content/early/2014/06/18/1528083714540696.abstract</a>
Tusimire, Y., Zhang, C.Y., and Omollo, E. Cellulose acetate (CA) as an alternative for Polymethylmethacrylate (PMMA) in relation to absorption properties of blended electrospun poly (vinylidene fluoride) (PVDF) Membrane	<a href="http://link.springer.com/article/10.1007/s10570-014-0296-1">http://link.springer.com/article/10.1007/s10570-014-0296-1</a>
Ncube, S., Zhang, C. Y., Omollo, E., & Liu, L. Effect of Time and Temperature when Removing PVA from a PET/PVA Nonwoven Material	<a href="http://www.scientific.net/AMR.821-822.188">http://www.scientific.net/AMR.821-822.188</a>
Physical Characterization of Eri Silk Fibers Produced in Kenya	<a href="https://www.tandfonline.com/doi/full/10.1080/15440478.2019.1612306">https://www.tandfonline.com/doi/full/10.1080/15440478.2019.1612306</a>
A STUDY OF YARN IMPERFECTIONS FOR BASOFIL/COTTON ROTOR SPUN YARN	<a href="http://www.jkuat-sri.com/ojs/index.php/proceedings/article/view/396">http://www.jkuat-sri.com/ojs/index.php/proceedings/article/view/396</a>
Preliminary Study regarding the Effects of Different Soil Treatments on the Strength of Canvas Material during the Soil Burial Test	<a href="http://www.tekstilec.si/wp-content/uploads/2015/12/262-267.pdf">http://www.tekstilec.si/wp-content/uploads/2015/12/262-267.pdf</a>
Eri silkworm rearing practices in Kenya	<a href="http://www.entomoljournal.com/archives/2016/vol4issue5/PartC/4-4-163-184.pdf">http://www.entomoljournal.com/archives/2016/vol4issue5/PartC/4-4-163-184.pdf</a>
Effect of Conventional Degumming Methods on Eri Silk Fibers produced in Kenya	<a href="https://www.emerald.com/insight/content/doi/10.1108/RJTA-05-2019-0021/full/html">https://www.emerald.com/insight/content/doi/10.1108/RJTA-05-2019-0021/full/html</a>
Clustering and Classification of Cotton Fiber Quality using Principle Component Analysis, Agglomerative Hierarchical clustering (AHC), and k-means Clustering	<a href="https://www.tandfonline.com/doi/full/10.1080/15440478.2017.1340220">https://www.tandfonline.com/doi/full/10.1080/15440478.2017.1340220</a>

**NAME PROJECT TITLE PERIOD**

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**PROFESSIONAL AFFILIATIONS AND SOCIETIES****TITLE****INSTITUTION**

Member	Engineers Board of Kenya
Member, KEBS/TC 064	Kenya Bureau of Standards
Member, KEBS/TC 066	Kenya Bureau of Standards
Member, KEBS/TC 067	Kenya Bureau of Standards
Member, KEBS/TC 070	Kenya Bureau of Standards