



# MACHAKOS UNIVERSITY

## PUBLICATIONS (2018/2019)

S. No	Authors	Year of publication	Title of article	Name of Journal	Volume Number/Issue	Pages	Web link
<b>SCHOOL OF BUSINESS &amp; ECONOMICS</b>							
1	<b>Charles Ombuki</b>	July 2018	Factors Influencing Maize Production in Rural Kenya; Case of Kisii county	International Journal of arts and Commerce	<i>Vol 7, issue 6</i>	47 - 56	<a href="http://www.ijac.org.uk">www.ijac.org.uk</a>
2	Pauline Mutunga, <b>Evans Mogeni,</b> Wycliff Mukulu and David Musimbi	July 2018	An Analysis of Determinants of Agricultural Growth in Kenya	Noble international journal of business and Management Research	<i>Vol 12, issue 5</i>	32 - 46	
3	Pauline Mutunga, <b>Evans Mogeni,</b> Wycliff Mukulu and David Musimbi	July 2018	Effect of Stock Market Development on Economic Growth; Case of Nairobi Securities Exchange, Kenya	Noble international journal of business and Management Research	<i>Vol 3</i>		

4	Jonas Yawovi Dzinekou and <b>Robert Arasa</b>	August 2018	Managerial Capabilities and Private University Performance in Kenya	International Journal of Research and Innovation in Social Science	Volume II, Issue VIII	141 - 149	<a href="http://www.rsisinternational.org">www.rsisinternational.org</a>
5	Joseph Mwendwa Katumo, <b>Robert Arasa, Charles Ombuki, Marther Ngigi</b>	2018	Factors Affecting Adoption of Irrigation as A Strategy Towards Enhancing Food Production Among Farmers In Kee Ward, Makueni County, Kenya	International Journal of Economics, Commerce and Management	<i>Vol VI, Issue 11</i>		
6	Muange Kioko, <b>Josephat Kiweu, Susan Nzioki</b>	2018	Effects Of Capital Base On Shareholders' Wealth Of Kenyan Listed Companies Involved In Mergers And Acquisitions		Vol. VI, Issue 11		
7	<b>Evans Mogeni</b>	2018	Economic Analysis of Factors Influencing Maize Productivity in Kenya: Case of Trans Nzoia and Machakos County	International Journal of Science and Research	accepted		
8	Japheth M. Muli , <b>Robert Arasa</b>	2019	Social Entrepreneurship: Sustainability and Social Impact By Not-For-Profits: Theory And Evidence	Journal of Economics, Commerce and Management United Kingdom	<i>Vol. VII, Issue 2,</i>		
9	<b>Jacinta Kinyili</b>	2019	Role of Career Advancement Practices on The Retention of Employees in Public Health Institutions in Machakos County, Kenya	International Journal in Management and Social Science	Volume 07 Issue 01		
10	<b>James Murunga, Evans Geoffrey Mogeni, Dorothy</b>	2019	Public Health Spending and Health Outcomes in Kenya				

	Ngina Kimolo						
11	Joseph Kinyanzii, <b>Charles Ombuki</b> and Fides Kalii	2019	Influence of Financial Management Practices on the Financial Performance of Public Secondary Schools in Kathiani Sub county	<i>IOSR journal of Economics and Finance</i>	<i>Vol. 10, Issue 2</i>	<i>PP 57 – 70.</i>	
12	<b>Charles Ombuki</b> and Evans Oteki	2019	Effect of Member Income on additional Voluntary Contribution to Pension Funds: Case of Universities in south Eastern Kenya	International Journal of Recent Research in Commerce, Economics and Management	<i>Volume 6, Issue 1,</i>	<i>PP 64 – 70.</i>	
13	<b>Charles Ombuki</b>	2019	The Long run Effect of Balance of Payments on the Gross Domestic Product of Kenya	Machakos University Journal of Science and Technology,	Vol. 1, Issue 1		ISBN 978-9966-820-64-8
14	Damaris Muthusi, <b>Robert Arasa,</b> Stephen Murag'e	2019	Right to Food and Sustainable Livelihoods: Use of Pastoral Cycle Approach to Respond to Communities' Needs, Isiolo County, Kenya	Machakos University Journal of Science and Technology	Vol. 1, Issue 1		
15	George Kariuki, Jennifer Njaramba, <b>Charles Ombuki</b>		Climate Change and Maize Yield in Kenya: An Econometric Analysis	Machakos University Journal of Science and Technology	Vol. 1, Issue 1		

**SCHOOL OF PURE AND APPLIED SCIENCES**

1	Fulgensia Kamughish a Mbabazi, J.Y.T. Mugisha, <b>M. Kimathi</b>	2018	Modeling the within-host co-infection of influenza A virus and pneumococcus	Applied Mathematics and Computation	339	488 - 506	<a href="https://doi.org/10.1016/j.amc.2018.07.031">https://doi.org/10.1016/j.amc.2018.07.031</a>
2	Francis Oketch Ochieng, Mathew Ngugi Kinyanjui, <b>Mark Eric Kimathi</b>	2018	Hydromagnetic Jeffrey-Hamel unsteady flow of a dissipative non-newtonian fluid with nonlinear viscosity and skin friction	Global Journal of Pure and Applied Mathematics	Vol.14 no. 18	1101 - 1119	<a href="http://www.ripublication.com/gjpam.htm">http://www.ripublication.com/gjpam.htm</a>
3	Caroline W. Kanyiri, <b>Kimathi Mark</b> , Livingstone Luboobi	2018	Mathematical Analysis of Influenza A dynamics in the emergence of drug resistance	Computational and Mathematical Methods in Medicine			<a href="https://doi.org/10.1155/2018/2434560">https://doi.org/10.1155/2018/2434560</a>
4	Opiyo, M.A., Marijani, E., <b>Muendo, P.N.</b> , Odede R., Leschen W., Charo H.K,	2018	A review of aquaculture production and health management practices of farmed fish in Kenya	International Journal of Veterinary Science and Medicine			<a href="http://www.elsevier.com/locate/ijvsm">www.elsevier.com/locate/ijvsm</a>
5	Maria Onditi1; Geoffrey <b>Bosire1</b> , Evans Changamu	2018	Application of cactus polysaccharide-synthesized Ag nanoparticles for the reduction of Rhodamine B,monitored by fluorescence excitation and emission matrices	Starch	6.		

6	<b>GO Bosire1*</b> JC Ngila1 and TI Nkambule2	2018	Water SA	In press			
7	Suleman Nasiru, Peter <b>N. Mwita</b> & Oscar Ngesa	2018	Exponentiated Generalized Power Series Family of Distributions	Annals of Data Science			
8	Emmanuel Torsen, <b>Peter N. Mwita</b> and Joseph K. Mung'atu	2018	Nonparametric Estimation of the Error Functional of a Location- Scale Model		Vol 7(4)	1 -18	
9	Suleman Nasiru, Peter <b>N. Mwita</b> & Oscar Ngesa	2018	Exponentiated Generalized Half Logistic Burr X Distribution	Advances and Applications in Statistics	Vol 52 (3)	145 - 169	
10	Ojiambo, Mathew Kinyanjui, <b>M. Kimathi</b>	2018	phase Jeffrey Hamel flow in a geothermal pipe	International Journal of Advances in Applied Mathematics and Mechanics	Vol. 5, No. 4	21-32	<a href="http://www.ijaamm.com">www.ijaamm.com</a>
11	Houenafa Alain Togbenon, Guy Aymard Degla, <b>Mark Eric Kimathi</b>		Stability analysis using nonstandard finite difference method and model simulation for multi-mutation and drug resistance with immune- suppression	Mathematical Theory and Modeling	Vol. 8, No. 7	77-96	<a href="http://www.iiste.org">www.iiste.org</a>
12	Stephen Mutua Silu, Mary Wainaina, <b>Mark Kimathi</b>		Effects of magnetic induction on MHD boundary layer flow of dusty fluid over stretching sheet	Global Journal of Pure and Applied Mathematics	Vol. 14, No. 9	1197- 1215	<a href="http://www.ripublication.com/gjpan.htm">http://www.ripublication.com/gjpan.htm</a>

13	William Kuria Ndungu, <b>Mark Kimathi</b> , David Mwangi Theuri		Modeling traffic flow on multi-lane road: effects of lane-change maneuvers due to an on-ramp	Global Journal of Pure and Applied Mathematics	Vol. 14, No. 10	1389-1406	<a href="http://www.ripublication.com/gjpam.htm">http://www.ripublication.com/gjpam.htm</a>
14	<b>Stephen Mailu</b>		Simultaneous Detection of Anthracene and phenanthrene on Ag-Au alloy nanoparticles/overoxidized-polypyrrole Composite Modified Carbon Electrode	African Journal of Pure and Applied Chemistry	accepted		
15	<b>Stephen N. Mailu</b> ,	2019	Simultaneous detection of Anthracene and Phenanthrene on Ag-Au alloy nanoparticles/overoxidized-polypyrrole composite modified carbon electrode,	IOSR Journal of Applied Chemistry	12	65-80	
16	Kaptum Stephen, <b>Stephen N. Mailu</b> and Peter Koech,	2019	Relationship Between Teaching Methods and Student Performance in Physics in Public Secondary Schools in Nakuru East Sub-County	International Journal of Recent Innovations in Academic Research,	3	220-227	
17	Joel Silla, David Mulwa and <b>Stephen N. Mailu</b> ,	2018	Relationship Between Teaching Method and Students' Performance in Mathematics in Public Secondary Schools in Dadaab Sub County, Garissa County; Kenya,	IOSR Journal of Research & Method in Education,	8	28-32	
18	Kaptum C. Stephen, <b>Stephen N. Mailu</b> and Peter K. Koech,	2018	Relationship between Learning Strategies and Student Performance in Physics in Public Secondary Schools in Nakuru East Sub-County,	European Journal of Social Sciences Studies,	3	237-248	

19	Kaptum C. Stephen, Peter K. Koech and <b>Stephen N. Mailu,</b>	2018	Relationship between Self-Regulated Learning and Student Performance in Physics in Public Secondary Schools in Nakuru East Sub-County,	IOSR Journal of Research & Method in Education,	8	79-83	
20	Kenfac Dongmezo Paul Brice, <b>Mwita Peter N,</b> Kanga Tchwaket Ignace Roger	2019	Performance of Imputation Methods towards Increasing Percentage of Missing Values	Machakos University Journal of Science and Technology	Vol.1 (1)		

#### SCHOOL OF EDUCATION

1	Kaniaru, S, Thinguri R, W & <b>Peter Koech</b>	2018	An Analysis of the Association between School Managers' Induction Capacity and the Implementation of Human Resource Development Policy at Public Primary Schools in Nyeri County, Kenya.	European Journal of Education Studies	Vol. 4, issue 12		
2	Kaniaru, S, Thinguri R, W & <b>Peter Koech</b>	2018	An Analysis Of The Association Between School Manager's Professional Development Capacity and The Implementation of Human Resource Development Policy In Public Primary Schools In Nyeri County, Kenya	European Journal of Education Studies.	<i>Vol. 4, issue 12</i>		
3	Sharon M. Kasilia, <b>David M. Mulwa &amp; Alex Kamwaria</b>		Effects of Instructional Media On Students' Academic Performance in Christian Religious Education in Public Secondary Schools in Kenya	Scholarly Research Journals for Humanity Science and English Language	Vol - 6/29	Page - 8060/8067	

4	Masaku Flora Aceke, <b>Kimiti Richard Peter &amp; James Matee Muola</b>		Determinants of Delegation of Duties and Responsibilities In The Administration Of Secondary Schools In Mbeere South Sub-County, Embu County, Kenya	Scholarly Research Journals for Humanity Science and English Language	Vol - 6/29	Page 8068/8076	
5	Elizabeth Welu Kiamba, <b>Francis Mutua &amp; David Mulwa</b>		Influence of Teacher's Subject Matter Knowledge On Students' Academic Achievement of Kiswahili Language in Public Secondary Schools in Kathonzi Sub-County, Kenya	Scholarly Research Journals for Humanity Science and English Language	Vol - 6/29	Page - 8052/8059	
6	Kihara Danie, <b>Kimiti Richard Peter, Muola James</b>		Influence of teachers Motivation on Students ' Performance in KCSE in Public schools in Kinangop Sub County, Nyandarua County, Kenya	IOSR- JRME	Vol 8, issue6	Page 7-12	
7	Jacob Kyengo Muthoka, <b>David Mulwa, and Francis Mutua</b>		Influence of Principals' administrative experience on Principals' Effectiveness in Instructional Supervision in Public Secondary Schools in Mukaa Sub County, Makeni County, Kenya	Scholarly Research Journals for Humanity Science and English Language	Vol 6, Issue 29		
8	<b>Kimiti Richard Peter</b>	2019	The Doomed Future: An Analysis of The Impact of 'Muguka' Abuse on University Students' Academic Performance: A Case of Machakos and Kitui Counties, Kenya	Machakos University Journal of Science and Technology	Vol.1 (1)		
9	<b>James M. Muola, Wycliffe Amukowa</b>	2019	The Virtue of Academic Integrity: Prevalence,	Machakos University Journal of	Vol.1 (1)		



			Antecedents and Intervention Measures	Science and Technology			
10	<b>Jemimah Muchai</b>	2019	An Investigation into Factors that Contribute to Cheating in Examinations in Technical Institutions in Central Province, Kenya	Machakos University Journal of Science and Technology	Vol.1 (1)		
11	<b>David M. Mulwa</b>		The Journey towards Enhanced Quality of Basic Education in Kenya: Challenges and Policy Suggestions	Machakos University Journal of Science and Technology	Vol.1 (1)		
12	Selpher K. Cheloti, <b>David M. Mulwa,</b> Veronica Nduku Mwikya		Influence of Cost of Education on Transition Rates from Primary to Secondary Schools in Kenya: A Case of Machakos Sub-County	International Journal of Economics, Commerce and Management	Vol. VII, Issue 3		
<b>SCHOOL OF AGRICULTURAL SCIENCES</b>							
1	Kyule, M.N, <b>Konyango, JJ</b> and Nkurumwa, O.A	2018	Teachers in the implementation of practical agriculture curriculum in kenyas arid and semi-arid secondary schools	Problems of education in the 21 <sup>st</sup> century	Vol 76, no. 4	533	

**SCHOOL OF ENVIRONMENT AND NATURAL RESOURCE MANANGEMENT**

1	Kiumbuku SK., Mutinda J.W and Baaru, M	2018	Do small holder farmers perceive rainfall variability the same and correctly? Gendered and spatial analysis of perception versus actual trends of rainfall in three livelihood zones in Kenya	Environment and Earth sciences			In press
2	B. Gwada1,G. Ogendi1, <b>S.M. Makindi</b> , S. Trott2	2019	Composition of plastic waste discarded by households and its management approaches	Global Journal of Environmental Science and Management	5(1)	83-94	
3	Stephen Aurice Wekoye1, Wilkister Nyaora Moturi and <b>Stanley Maingi Makindi</b>	2019	Occupational Safety and Health Hazards in the Informal Non-food Manufacturing Sector in Kampala City, Uganda	Asian Journal of Medicine and Health	14(2)	1-13	
4	A. Jebiwott, G. M. Ogendi, <b>S. M. Makindi</b> , and M. O. Esilaba	2019	Forest Cover Change and Its Impacts on Ecosystem Services in Katimok Forest Reserve, Baringo County, Kenya	Handbook of Climate Change Resilience,			<a href="https://doi.org/10.1007/978-3-319-71025-9_155-1">https://doi.org/10.1007/978-3-319-71025-9_155-1</a>
5	Charles K Kigen, Francis N Muyekho Edward N Masibayi and <b>Stanley M Makindi</b>	2019	Potential Tropical Climate-based Spatio-temporal Grass Variability	Environmental Research Communications,	Volume 1, Number 2		

SCHOOL OF HEALTH SCIENCES							
1	Nasirumbi P. R. and <b>Okoth C.A</b>	2018	Determinants of insecticide Treated Mosquito Nets utilization Among households in Vihiga Sub-County	Research journali's Journal of Public health			<a href="http://www.researchjournali.com/pdf/4473.pdf">www.researchjournali.com/pdf/4473.pdf</a>
SCHOOL OF HUMANITIES AND SOCIAL SCIENCES							
1	Justin Kyalo	2018	Crop diversification as a determinant of household decision-making in the production of Roselle plant in Mwea Sub-County, Kenya	International journal of social science and information technology	Vol IV Issue V,	405-413	<a href="http://www.ijssit.com">www.ijssit.com</a>
2	Florence Wanguba Mmbwanga ,Dr Martina Mutheu	2018	Gender Stereotyping in Social Media among University Students	Journal of Global Research in Computer Science (JGRCS)	9 Issue : 6		
3	Mmbwanga Florence Wanguba, Dr Julius Bosire, Dr Martina Mutheu	2018	Influence of Social Media on Family Communication	International Journal of Innovative Research in Computer and Communication (IJIRCCE)	Volume no.: 6 Issue : 6		
4	<b>Mmbwanga Florence, Everlyn Simiyu</b>	2019	Effect of Culture on Language used in Communication Technology by University Students	Machakos University Journal of Science and Technology	Vol1, Issue1		
5	<b>Paul Kombo</b>		An Inquiry into Youth Innovativeness in	Machakos University	Vol1, Issue1		

			Radicalization and Extremism: The Case of the Recent Manchester City Bombing and Al-Shabaab Activity in Kenya	Journal of Science and Technology			
6	Rapitsenyane, Y., <b>Njeru, S.,</b> & Moalosi, R.	2019	Challenges facing the fashion industry in implementing sustainable product service systems in Botswana and Kenya	London: Bloomsbury Visual Arts.		236-245	<a href="http://www.bloomsbury.com">www.bloomsbury.com</a>
7	<b>Njeru, S.N.,</b> & M'Rithaa, K. M	April 3 <sup>rd</sup> - 5 <sup>th</sup> , 2019	Fashion Design-Related Doctoral Studies in Selected Kenyan Universities: Advancing Applied Research in Sustainability and Human-Centred Approaches	LeNS World Distributed Conference (Conference Proceedings )			
8	Rapitsenyane, Y., <b>Njeru, S.,</b> & Moalosi, R.	April 3 <sup>rd</sup> - 5 <sup>th</sup> , 2019	Sustainable product service systems: A new approach to sustainable fashion	LeNS World Distributed Conference (Conference Proceedings )			