

PUBLICATIONS DURING 2015/ 2016 FY

The following journal articles, book, book chapter, and conference proceedings were published by UoK staff (names in bold) during the contract period:

I. JOURNAL ARTICLES

1. Akala, B. M., **Rono, K.**, Chamwanda, H. and Owigar, R. (2016). Analysis of the Alcoholic Drinks Control Act, 2010 in reconciling *chang'aa* distillation with climate change in Vihiga County, Kenya. *International Journal of Innovative Research and Development*, **5**: 267-272 .
2. **Apudo, M. G.**, Kenneth, O. O., and **Rop, S. K.** (2016). Impact of land use activities on Itare river bank stability and water quality in South West Mau water catchment, Kenya. *Journal of Environmental Science, Toxicology and Food Technology*, **10**: 15-27.
3. **Cheruiyot, P. K.**, Cheruiyot, J. K. and **Yegon, C. K.** (2016). Development of Forex Bureaus in Kenya and their impact on exchange rate against the US Dollar. *International Journal of Economics, Commerce and Management*, **4**: 528-550.
4. **Cheruiyot, P. K.**, Cheruiyot, J. K. and **Yegon, C. K.** (2016). A study of operations and impact of rotating savings and credit associations: A case of middle income earners in Embakasi Nairobi, Kenya. *International Journal of Economics, Commerce and Management*, **4**: 871-897.
5. **Gitaka, S. K.** and Machogu, C. G. (2016). A Study on compliance with the two-thirds gender rule in appointments and promotions of staff in public Universities elevated in 2012 and 2013. *International Journal of Scientific and Research Publications*, **6**: 506-512.
6. Jumba, B. N. Anjili, C. O., Makwali, J., Ingonga, J., Nyamao, R., Marango, S., **Choge, J. K.** & Khayeka-Wandabwa, C. (2015). Evaluation of leishmanicidal activity and cytotoxicity of *Ricinus communis* and *Azadirachta indica* extracts from Western Kenya: *In vitro* and *in vivo* assays. *BMC Research Notes*, **8**: 650 doi:10.1186/s13104-015-1605-y.
7. **Kamau, S. M.**, **Rotich, J. R.**, **Cheruiyot, B. C.** and **Ng'eno, L. C.** (2015). Applying Florence Nightngale's *Model of Nursing and the Environment* on multiple drug resistant tuberculosis infected patients in the Kenyan setting. *Open Access Library Journal*, **2**: e1796. <http://dx.doi.org/10.4236/oalib.1101796>.
8. **Kaprom, B. C.**, Egesah, O. and Baliddawa, J. (2015). Implications on female genital cutting and promotional strategies by the Pokot community in the context of FGC. *European Journal of Biology and Medical Science Research*, **3**: 19-25.
9. **Kaprom, B. C.** (2015). Interventions by Government and Non Governmental Organizations towards Female Genital Mutilation (FGM) and the attitude portrayed by the Pokot community on repressing FGM. *Journal of Health, Medicine and Nursing*, **16**: 71-77.
10. Kariuki, S. M., **Kemoi, E. K.** and Musyoki, S. K. (2015). A review of effectiveness and safety of selected biologics in the treatment of rheumatoid arthritis. *Journal of Biological Science*, **2**: 21-35.
11. Kariuki, S. M., Musyoki, S. K. and **Kemoi, E. K.** (2015). Immunotherapeutic treatment of HIV-1: Review of safety and efficacy. *International Journal Current Research Review*, **7**: 24-29.
12. **Kemboi, D.**, **Kiplimo, J. K.**, and **Chirchir, D.** (2016). Phytochemistry and antibacterial activity of extracts from medicinal plant *Olea africana*. *African Journal of Pharmacy and Pharmacology*, **10**: 330-336.
13. **Kemoi, E. K.**, Kariuki, S.M., Musyoki, S. K., and Ngetich, A. K. (2015). Isolation of *Cryptococcus neoformans* species from honeybee colonies in Mau Forest, Kenya. *European Scientific Journal*, **11**: 309-314.

14. **Kere, G. M.**, Guo, Q. and Chen, J. (2016). Growth and physiological responses of cucumber (*Cucumis sativus* L.) to sodium chloride stress under solid hydroponics. *Journal of Environment and Agricultural Sciences*, **6**:47-57.
15. **Kimutai, A.**, Ngeiywa, M., **Njagi, P. G .N.**, Mula, M., Ingonga, J., Nyamwamu, L. B., Ombati, C. and Ngumbi, P. (2015). Effects of essential oils of lemon grass, *Cymbopogon citratus* and the Mexican marigold, *Tagetes minuta* on mortality and oviposition in adult sandflies, *Phlebotomus duboscqi*. *International Journal of Biomedical Research*. **6**: 679-688.
16. Kinara, G. and **Muindu, J. P.** (2016). Signification of HIV/AIDS in Babu Omar's *Kala Tufaha*. *Research Journal of English Language and Literature*, **4**: 581-584.
17. **Kipkiror, J. L.** and Tanui, J. G. (2015). The formation of Silali Crater (Kenya) as an extraterrestrial impact crater (ETIC). *Journal of Environment and Earth Science*. **5**: 115-126.
18. **Kipkiror, L. J.**, Ucauwun, E. and Daudi, F. (2016). Investigation of Silali Basin as an extraterrestrial impact crater (ETIC) using Remote Sensing. *Journal of Environment and Earth Science*, **6**: 153-165.
19. **Kipkiror, L. J.**, Ucauwun, E. and Daudi, F. (2016). Effect of Silali Basin's impact cratering on the environment of the area. (Online). *Elisor Remote Sensing*, **92**: 38888-38894.
- 20.. **Kiplimo, J. J.** (2016). A review on the biological activity and the triterpenoids from the genus *Veronia* (Asteraceae Family). *International Journal of Pure and Applied Chemistry*, **11**: 1-14.
21. **Kipsigei, R. N.** (2015). From warfare to cautious meditation: An interaction paradigm model for a renewed appraisal of science and religion (Online). *American Journal of Social and Management Sciences*. **1**:121-127.
22. **Kipsigei, R. N.** (2015). We work together for our common well-being: A critique of Paul F. Knitter's soteriocentrism. *Mediterranean Journal of Social Sciences*. **4**: 245-257.
23. **Kipsigei, R. N.** (2016). Implications of pluralist Christological reformulations for biblical Christian identity. *International Journal of Multidisciplinary Research Review*, **1**:178-190.
24. **Kipsigei, R. N.** (2016). Extra-judicial methods: African traditional religious leadership strategy for peace-making and security. *Journal of Social Sciences Research*, **2**: 121-129.
25. **Kipsigei, R. N.** (2016). Comparative analysis of feminine status: Muslim *visa vie* Judeo-Christian perspectives. *Journal of Humanities and Social Sciences*, **3**: 245- 251.
26. **Kipsigei, R. N.** (2016). Implications of pluralist Christological reformulations for biblical Christian identity. *International Journal of Multidisciplinary Research Review*, **1**: 178-190.
27. **Kipsigei, R. N.**, Wepukhulu, R. N. (2015). Scriptural basis for inter-religious dialogue: A comparative view of Islam, Christianity and African Traditional Religion. *Asian Journal of Humanities and Social Studies*. **3**: 74-84.
28. Kiptum, P. J., Esekon, J. E., and **Owino, M. O.** (2015). Greek parameters of nonlinear Black-Scholes equation. *International Journal Of Mathematics and Soft Computing*, **5**: 69-74.
29. **Kirui, J. K.** (2016). Influence of physical work environment on employee propensity to postponed retirement: Evidence from retired civil servants in Kenya. *The International Journal of Social Sciences and Humanities Invention*, **3**: 1915-1924.
30. **Kisurulia, S.**, Katiambo, D. and Lutomia, G. A. (2015). An investigation into the state of disaster and safety preparedness in schools in Kenya. *International Journal of Science and Research*, **4**: 313-318.
31. **Kisurulia, S.**, Katiambo, D. and **Tanui, M.** (2015). The role of cash transfer programmes in development in Kenya. *International Journal of Science and Research*, **4**: 319-324.

32. Lutomia, G., **Kisurulia, S.** and Katiambo, D. (2015). Factors affecting retention of participation of students in basic education in Sub-Saharan Africa: A case of Kenya. *Elixir Education and Technology*, **89**: 36953-36960.
33. **Manduku, J.** (2016). Effects of performance management practices in motivating and retaining employees in Kenyan secondary schools. *Education Research journal*, **6**: 13-24.
34. **Manduku, J., Kibet, V.** and **Birir, B.** (2015). Effects of rewards, monitoring and evaluation on employee retention in public secondary schools in Sosirot Sub-County, Kericho County, Kenya. *International Journal of Research in Education and Psychology*, **1**: 54-65.
35. **Manduku, J., Koech, Z.** and **Chepkirui, P.** (2016). Stress management strategies and their effects on teachers' commitment in primary schools in Sabatia Disatrick, Vihiga County, Kenya. *Education Research Journal*, **6**: 1-12.
36. **Manduku, J., Koech, M.,** and **Muia, Z.** (2015). Stress management strategies employed by head teachers and their effect on job satisfaction and commitment of teachers in primary schools in Bomet County, Kenya. *International Journal of Research in Education and Psychology*, **1**: 26-38.
37. Mudola, J. M., **Nyangena, E.** and Muchee, T. (2015). Factors influencing compliance with oral hygiene practices among upper primary school children at Eldoret Town in Uasin Gishu County, Kenya. *Journal of Nursing Care* S1:009.doi:10.4172/2167-1168.S1-009.
38. **Muindu, J. P.** (2016). Liminality and regeneration in Wahome Mutahi's the *House of Doom*, Francis Imbuga's *Miracle of Remera* and Moraa Gitaa's the *Crucible for Silver and Furnace for Gold*. *European Journal of English Language and Literature Studies*, **4**: 39-45.
39. Musyoki, S. K., Kariuki, S. M., **Kemoi, E. K.** and Mbogori, E. (2016). The patterns of selected antibiotics sensitivity and resistance to *Staphylococcus aureus* isolates. *International Journal of Scientific and Technology Research*, **5**: 278-281.
40. **Mutugi, M.,** and Kiiru, W. (2015). Biodiversity, local resource, national heritage, regional concern, and global impact: The case of Mau Forest, Kenya. *European Scientific Journal (Special edition)*, **1**: 681-691.
41. Namaswa, W. T., Mbego, J., Muisu, F. and **Mandila, B.** (2016). Firewood accessibility among rural and urban households in Trans-Nzoia and West Pokot Counties, Kenya. *International Research Journal of Environmental Sciences*, **5**: 1-11.
42. Namaswa, W. T., Mbego, J., Muisu, F. and **Mandila, B.** (2016). Household's charcoal accessibility in West-Pokot and Trans-Nzoia Counties, Kenya. *International Research Journal of Environmental Sciences*, **5**: 30-40.
43. Ndombi, E. M., Budambula, V., Webale, M. K., Musumba, F. O., Wesongah, J. O., **Mibei, E.,** Ahmed, A. A., Lihana, R. and Were, T. (2015). Serum adiponectin in HIV-1 and hepatitis C virus mono- and co-infected Kenyan injection drug users. *Endocrine Connections*, **4**: 223-232.
44. Nyamwamu, L. B., Ngeiywa, M., Mulaa, M., Lelo, A. E., Ingonga, J., **Kimutai, A.** & Gicheru, M. (2015). Effects of crude root extracts of *Senna didymobotrya* on caecal amoebiasis in mice. *International Journal of Pharmacy*, **5**: 765-771.
45. Obulinji, H. W., Wegulo, F. N. and **Otieno, J.** (2015). Utilization and impact of microfinance credit on performance of microenterprises among entrepreneurs who are members of self-help groups in Butere, Mumias, Matungu and Khwisero Sub-counties, Kenya. *Journal of Economics and Sustainable Development*. **6**:1-16.

46. Obulinji, H. W., Wegulo, F. N. and **Otieno, J.** (2015). The impact of microfinance on micro enterprises' and entrepreneurs' household incomes and livelihoods in Butere, Mumias, Matungu and Khwisero sub-Counties, Kenya (Online). *Developing Country Studies*, 5: 18-30.
47. **Ochieng, L. A.**, Githiri, S. M., Nyende, B. A., Murungi, L. K., Kimani, N. C., Macharia, G. K. and Karanja, L. (2015). Analysis of genetic diversity of selected East African sweet potato (*Ipomea batatas* [L.] Lam.) accessions using microsatellite markers. *African Journal of Biotechnology*. **14**: 2583-2591.
47. Ogola, S. O., **Ogembo, J.** and Magak, K. (2016). The autobiographical first persona, Miguna's autobiographies and the interpretation of Kenya's recent history. *International Journal of Current Research*, **3**: 32844-32853.
49. Ojiema, M. O., **Owino, M. O.** and Odhiambo, P. O. (2016). Automorphisms of the unit groups of square radical zero finite commutative completely primary rings. *International Journal of Pure and Applied Mathematics*, **108**: 39-48.
50. Ojiema, M. O., **Owino, M. O.**, and Odhiambo, P. O. (2016). Automorphisms of the unit groups of Power Four Radical Zero Finite Commutative completely Primary Rings. *Pure Mathematics Sciences*, **5**: 11-25.
51. Olege, F., Odhiambo, P., **Owino, M. O.**, Aywa, S. and Okaka, A. C. (2016). Characterization of codes of ideals of the polynomial ring $F_2^{30}[x] \text{ mod } (x^{30} - 1)$ for error control in computer applications. *Journal of Advances in Mathematics*, **12**: 6238-6247.
52. **Omuna, M. O.**, **Onchera, P. O.**, and **Kimutai C. K.** (2016). Availability and use of instructional resources for teaching and learning of English reading skills in secondary schools in Teso North Sub County, Kenya. *Educational Research*, **7**: 1-9.
53. Otanga, L. O., Aywa, S. O., **Owino, M. O.** (2015). On generation of Measurable Covers for Measurable Sets using multiple integral of functions. *Journal of Mathematics and Statistical Science*. **1**: 32-41.
54. **Otiende, M. A.**, Nyabundi, J. O. and Ngamau, K. (2015). Effect of cutting position, auxins and rootstocks on flower yield of rose cultivator 'Inca'. *Academic Research International*, **6**: 9-16.
55. **Otiende, M. A.**, Nyabundi, J. O. and Ngamau, K. (2016). Rose rootstocks position and auxins affect grafting take of 'Inca'. *Journal of Applied Horticulture*, **18**: 54-60.
55. **Owino, M. O.**, Mmasi, E. & Ojiema, M. (2015). On the Quotient Groups of Subgroups of the Unit Groups of a Class of Completely Primary Finite Rings. *Pure Mathematical Sciences*. **4**: 121-126.
56. Owiye, P. O., **Naibei, I. K.** and Momanyi, G. (2016). Effect of trade liberalization on performance of sugar firms in Kenya: The case of government owned firms. *European Scientific Journal*, **12**: 306-320.
57. Rono, D. K., Koros, P. K. A. and **Kosgei, A. K.** (2016). Influence of supervisory techniques on Kenya Certificate of Primary Education performance: A comparative study of public and private schools in Kaptagat Division, Uasin Gishu County, Kenya. *International journal of Economics, Commerce and Management*, **4**: 934-953.
58. **Rotumoi, J.**, Maru, J. E. & Cherui, R. (2015). The relationship between training of assessors and appropriate placement of children with special needs. The case of Uasin Gishu County, Kenya. *International Journal of Arts and Entrepreneurship*. **4**: 20-39.
59. **Rukwaro, M. W.** (2015). Access to career information to secondary school girls in Nyahururu Division, Kenya. *Merit Research Journal of Education and Review*, **3**: 275-284.

60. **Rukwaro, W. M.** and **Bii, H.** (2015). Library and information science (LIS) education and training in Kenya: Emergence, evolution, challenges and opportunities. *International Journal of Library and Information Science*. **8**: 11-18.
61. **Sawe, S.** and **Kipkosgei, A.** (2016). Can digitization of endangered vernacular language teaching and learning be remedy against linguistic competition?. *International Journal of Multidisciplinary Research Review*, **1**: 178-182.
62. **Sawe, S.** and **Mwamzandi, I.** (2016). Logic as a semantic resource in the language of law and religion. *International Journal of Multidisciplinary Research Review*, **1**: 117- 121.
63. **Tabot, B. A.** (2015). Contextual characteristics of teaching practice schools and supervision of student teachers in Kenya. *Journal of Educational Policy and Entrepreneurial Research*, **2**: 1-11.
64. Too, S. K., Kubasu, S. A. And **Langat, L. C.** (2016). Effect of working capital management practices on a firm's profitability: A case of manufacturing firms listed in Nairobi Securities Exchange. *International Journal Economics, Commerce and Management*, **4**: 701-736.
65. Walwenda, S.A. and **Owino, M. O.** (2016). On the Zero Divisor Graphs of a Class of Commutative Completely Primary Finite Rings. *Journal of Advances in Mathematics*, **12**: 6021-6026.
66. **Yegon, M. K. A., Omunyan, M.E., Bii, F., and Ruto, J.** (2016). Observations on dairy cattle production related to landholding, value addition and marketing of milk in Kericho and Bomet Counties of Kenya. *International Journal of Livestock Research (Online)*, **6**: 68-77.
67. **Yugi, J. O.,** Okeyo-Owour, J. B., Were-Kogogo, P., Luvaha, G. M., Okwiri, L. O., Rono, T. M. & Vulule M. J. (2015). Effective dose of crude ethanol and aqueous extracts of *Phytolacca dodecandra* (L'Herit) on *Anopheles gambiae* (Diptera: Culicidae) larvae. *Journal of Mosquito Research*, **5** : 1-6.

II. BOOK(S)

1. **Syallow, S.C.** (2015). Family influences on creativity of school children. Utafiti Foundation, Eldoret, Kenya. xiv + 77pp.

III. BOOK CHAPTER(S)

1. **Rukwaro, M. W.** and **Bii, H.** (2016). Access and utilization of ICTs by rural women in Kenya. In "Overcoming Gender Inequalities through Technology Integration". J. Wilson and N. D. Gapsiso (Eds.), Chapter 8, pp.163-173. IGI Global Publishers, Hershey, Pennsylvania, USA.

IV. CONFERENCE PROCEEDINGS

1. Boiyo, D. K., Isoe, G.M., Wassin, S., **Kipnoo, E. K. R.**, Gamatham R. R., Leitch, A.W.R., and Gibon, T. B. (2016). An all optical VCSEL wavelength conversion for optical fibre access networks. In "Proceedings of the 2016 Annual Conference on Sustainable Research and Innovation, 4 - 6 May, 2016; pp.17-20.
2. Erima, J., Masai, W. and Wosyanju, M. G. (2016). Preservation of digital research content in academic institutions: A case study of Moi University, Kenya. In "IST-Africa2016 Conference Proceedings". P. Cunningham and M.

Cunningham (Eds.). IMC International Management Corporation, 2016; 11pp.

3. Wasson, S., Ise, G.M., Boiyo, D. K., **Kipnoo, E. K. R.**, Gamatham R. R., Leitch, A.W.R., and Gibon, T. B. (2016). The Square Kilometer Array: The notion of timing and synchronization. *In* "Proceedings of the 2016 Annual Conference on Sustainable Research and Innovation, 4 - 6 May, 2016; pp. 52-55.
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