

CURRICULUM VITAE FOR JAMES B. KUNG’U (Ph.D)

1. PERSONAL INFORMATION

NAME : Prof. James Biu Kung’u (PhD)
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NATIONALITY : Kenyan
GENDER : Male
DATE OF BIRTH : 9th October 1962

Current Position Dean, School of Environmental Studies, Kenyatta University

2. **AREAS OF SPECIALIZATION AND RESEARCH INTEREST:**

Use of perennial plants for adaptation to climate change, Climate change and food security, Helping small scale farmers participate in carbon trade, Reduced Deforestation and Degradation (REDD+), Domestication of indigenous trees, Community participation in natural resource management, Environmental Impact Assessment and auditing, Curriculum development for natural resource management.

3. **KEY QUALIFICATIONS:**

Have wide experience in capacity building, research and community outreach. For the last 26 years I have been involved in capacity building at technical, undergraduate, post graduate and community level. Have been carrying out collaborative research and development work with universities, Government Ministries, Non Government Organizations and national and International research organizations. I have been an External Examiner for many universities in Africa i.e. Copper Belt University, Zambia, Bunda College of Agriculture, Malawi, South Eastern Kenya University, Moi University, University of Eldoret, Jomo Kenyatta University of Agriculture, Science and Technology and University of Kabianga. Have been serving as a Board member for ANAFE and the Chairman for East and Central Africa Region for Agriculture, Agroforestry and Natural Resources Education Network (ECARAFT-ANAFE). Have helped colleges and universities to review their curriculum i.e. Baraka Agricultural College, Nyabieya Forestry college, Mekele University, Ethiopia. Before joining Kenyatta University, in 1996, I had worked for nine years with the Ministry of Environment and Natural resources, Forest Department, where I was involved in Rural Re-forestation programme and training of foresters at Kenya Forestry College, Londiani.

4. QUALIFICATIONS

4.1 *Academic Qualifications*

- 1995: PhD (Forestry), University of the Philippines at Los Baños
- 1993: Msc (Forestry), University of the Philippines at Los Baños
- 1987: Bsc (Forestry), Moi University, Kenya

4.2 *Professional Courses*

- 2010: Completed a course on “Management of University Departments” held at Kenyatta University Conference Centre
- 2011: Completed a course on “Conflict Management and Resolution in Forestry and Natural Resources in Africa” held at World Agroforestry Centre, Nairobi.
- 2012: Completed a course on “Peer Reviewers Training” held at The Commission for Higher Education, Gigiri, Nairobi, Kenya.
- 2012: Completed a seven month course on the “Evidence and Lessons from Latin America (ELLA) Learning Alliance on Climate Change Adaptation in Semi-arid and Arid Regions, E-Learning course.
- 2013: Completed a one week training on “Teaching Methodology” at Kenyatta University
- 1990: Completed a course on “Training of Trainers” at Feldafing, Germany

5.0 EMPLOYMENT HISTORY

- 13th May 2014 to present: Professor, Department of Environmental Sciences, Kenyatta University, Kenya
- 5th August 2008 to 12th May 2014: Associate Professor, Department of Environmental Sciences, Kenyatta University.
- 2002- 2008; Senior Lecturer, Department of Environmental Sciences, Kenyatta University
- 1996-2002: Lecturer, Department of Environmental Foundations, Kenyatta University.
- 1989- 1996: Assistant Conservator of Forests I, Ministry of Environment and Natural Resources, Kenya.
- 1987-1989: Assistant Conservator of Forests II. Ministry of Environment and Natural Resources, Kenya
- 1983-1984: Untrained Teacher, Nyandarua College, Kenya

6.0 RECENT CONSULTANCIES UNDERTAKEN AND SOME RESEARCH UNDERTAKEN

- 2013: Consultant for FAO for preparation of the implementation plans for the climate change guidelines for forest managers in Kenya.
- **2012:** Consultant for World Agroforestry Centre (ICRAF) to map out areas where Payment for Environmental Services can add values to existing intervention for ecosystem management in Nyando Basin, Kenya.
- **2011** Reviewed all previous project assessments for Kwale Landscape Forest Restoration Project and identified and consolidated lessons learned that could inform the development of a robust five years project. World Wide Fund for Nature (WWF)
- **2010** Member of Selection Committee for selection of Institutions in East, Central and Southern Africa to serve as the Focal Institution for The African Network for Agriculture and Natural Resources Education (ANAFE) 14th to 25th February 2010, ANAFE.

- **2009.** Development of the project proposal “Potential of Accele-Grow Technologies in Improving Indigenous Trees Cultivation to Address Challenges of Climate Change and Food Security in Africa”. Consultancy done for World Agroforestry Centre, (ICRAF).
- **2008-2010** A research projects on “A study of forest cover and carbon sequestration in Central Kenya: An application of some statistical models”.
- **2006-2008** Identified opportunities for carbon trading among smallholder forestry farmers in semi-arid areas: A case study of Siakago division, Kenya.
- **2007- 2009** Principal Investigator in the project “Bridging information gaps between researchers, extension staff and policy makers on water harvesting techniques for fruit growing in arid and semi arid lands in Kenya”. Funded by Commission of Higher Education, Kenya.
- **2006-2008** Collaborator in the project “Indigenous Knowledge and Sustainable Management of Natural Resources in Selected Wetlands of Lake Victoria Basin: A Participatory Approach”. Funded by The Inter-University Council for East Africa (VicRes).
- **2005-2007** Collaborator in the project “Exploring tradeoffs around farming livelihoods and the environment: the AfricaNuANCES framework” funded by European Union
- **2004-2006** Collaborator in the project “Participatory Scaling-up of soil nutrient management technologies for increased crop yields in smallholder farms of central highlands of Kenya. Funded project by FARM AFRICA
- **2003-2008** Collaborator in the project “Integrated soil fertility management strategies to enhance food security in the central highlands of Kenya. Project funded by The Flemish Interuniversity Council (VRIL-Belgium)
- **2003-2005** Principal Investigator in the research “The Effect of Mycorrhiza Inoculation on Growth Performance and Drought Resistance of Legume Plants in Acidic Soils.” Research funded by the Legume Research Network (Rockefeller Foundation)
- **2003-2004** Principal Investigator in the research “Evaluation of indigenous medicinal plants and setting priorities for their domestication in Ukambani Districts of Kenya”. Research funded by the Integrated Natural Resource Management Project in Ukambani (INRMU) (Forest Department and Belgium government (BTC)
- **2001-2003** Collaborator in the research project, “Enhancement of Soil Productivity by use of low-input Technologies in the Smallholder farms of the Central Highlands of Kenya” funded by the Forum on Agriculture Research Husbandry.
 - munity participation in the management of Kakamega Forest. Funded by Resource Project Kenya
- **2001.** Assessment of emerging needs for agroforestry education in african universities and colleges. Funded by African Network for Agroforestry (ANAFE)/ICRAF2001.Facilitation of extension approaches workshop for National Agriculture and Livestock Extension Programme (NALEP). Client: Ministry of Agriculture and Rural Development.
- **2001.** Development of training Manuals on Gender and natural resource management and Legal and right issues of communities on natural resource management. Client: Resource Project Kenya

- **2000.** Facilitation of development of a training programme for National Agriculture and Livestock Extension Programme. Client: Ministry of Agriculture and Rural development (funded by SIDA)
- **2000.** Principal investigator in the research “Sustainable Land Use Issues in the Eastern Africa Region: The Use of Indigenous Knowledge and Traditional Regulatory Practices in Conservation of Forests” Research funded by IUCN Eastern Africa Regional Office.

7.0 POSTGRADUATE SUPERVISION

Successfully supervised eight (8) PhD and forty three (43) Masters students who have all graduated. Currently supervising four (4) PhD students and six (6) Masters students.

7.0 CONFERENCES/SEMINARS/WORKSHOPS

7.1. Participation in Workshop/Conferences

- 15th-20th July 2013: The Forum for Agricultural Research in Africa (FARA) 6th Africa Agriculture Science Week, International Conference Centre, Accra, Ghana.
- 13-15th May 2013: International Conference on Forests for food security and Nutrition, FAO Rome, Italy.
- 12th -16th November 2012. Workshop on capacity building and skills development in forest-based climate change adaptation and mitigation. Nairobi Safari Club, Kenya
- 22nd-26th October 2012; Integrated Soil Fertility Management in Africa; From Microbes to markets, Nairobi Safari Park Hotel, Kenya
- 26-31 May 2012; Adaptation Futures; 2012 International Conference on Climate Adaptation, Tucson, Arizona, USA
- 23-25 April 2012; Strengthening Africa’s strategic agricultural capacity for impact on development (SASACID) Inception Meeting at Kenyatta University Conference Centre.
- 10-13 April 2012; Beating famines: Sustainable food production through land regeneration in a changing climate, World Agroforestry Centre (ICRAF), Nairobi, Kenya.
- 27th to 29th February 2012; unBRAIn Start up Workshop on Agribusiness Education Workshop, White Sand Hotel, Mombasa, Kenya
- 9th -11th February 2012: Curriculum Development Workshop on Climate Change and Food Security for Inter-University Council for East Africa, Kigali, Rwanda.
- 12th -13th January 2012; Planning for Strengthening African Strategic Agricultural Capacity for Impact on Development (SASACID Nairobi, Kenya
- 28th to 30th November 2011; Mainstreaming African Tertiary Agricultural Education Institutions in the Comprehensive Africa Agriculture Development Programme (CAADP) Process, Ouagadougou, Burkina Faso
- 11th November 2011; Identification and Assessment of Capacity Building Needs for REDD+ in Kenya, Nairobi, Kenya
- 15th -19th November 2011; Ministerial Conference on Higher Education in Agriculture in Africa Kampala, Uganda
- 20th – 21st September 2011 Capacity Needs for REDD+ Implementation in Sub-Sahara Africa Nairobi, Kenya.
- 22nd – 25th February 2009 Regional Workshop on Climate Change: Responses and Mitigations Through Agriculture and Environment in East Africa Kampala, Uganda.

- 2nd World Congress of Agroforestry, 23rd -28th August 2009, Nairobi, Kenya.
- 10th – 11th August 2006. The first Kenya Forestry Society Scientific conference held in Nakuru, Kenya.
- 9th- 12th November 2005. The first DIVERSITAS Open Conference on Integrating Biodiversity Science for Human Well-being” Oaxaca, Mexico.
- 13th –15th December 2004: Tree On Farm Network (TOFNET) Stakeholders’ priority setting workshop, World Agroforestry Centre, Nairobi, Kenya.
- 16th December 2004: Trees On Farm Network (TOFNET) Regional Steering committee meeting, World Agroforestry Centre, Nairobi, Kenya.
- 27th June to 2nd July 2004 1st World Congress of Agroforestry (Working together for Sustainable Land-use Systems), Orlando, Florida, USA.
- 24rd-28th May 2004: ECA Regional Agroforestry Training and Education Workshop: (Adult learning training of trainers workshop), Kigali, Rwanda.
- 17th to 21st May 2004: International Symposium of the African Network for Soil Biology and fertility (AFNET) of TSBF institute of CIAT : Improving Human Welfare and Environmental Conservation by Empowering Farmers to combat Soil fertility degradation. Yaounde, Cameroon.
- April 2003: One week ANAFE Symposium on Building Agricultural and natural resources education in Africa: quality and relevance of tertiary education, held in Kenyatta University, Nairobi, Kenya
- 5th –9th December 2003. Soil Science Society of East Africa (SSSEA) annual conference at Eldoret, Kenya.
- 19th –22 November 2003: Inaugural Stakeholders and Regional Steering Committee Planning Meeting for Trees On Farm Network For Eastern and Central Africa, World Agroforestry Centre, Nairobi, Kenya.
- 19th –22 November 2003: Inaugural Stakeholders and Regional Steering Committee Planning Meeting for Trees On Farm Network For Eastern and Central Africa, World Agroforestry Centre, Nairobi, Kenya.
- 28th – 30th October 2003: Consultative Group on International Agricultural Research (CGIAR) Annual General Meeting, Nairobi, Kenya.
- 28th September-3rd October 2003: Third International Symposium on Dynamics of Physiological Processes in Woody Roots, Perth, Australia.
- April 2003: One week ANAFE Symposium on Building Agricultural and Natural Resources education in Africa: quality and Relevance of tertiary education, Kenyatta University, Nairobi, Kenya.
- 28th September-3rd October 2003: Third International Symposium on Dynamics of Physiological Processes in Woody Roots, Perth, Australia.
- 2nd-6th December 2002: Soil Science Society of East Africa (SSSEA) Annual conference at Mbale, Uganda.
- May 6-7 2001: Two-day stakeholders workshop on integrated soil fertility management strategies at Izaak Walton hotel, Embu, Kenya.
- 10th –13th April 2001: East and Central Africa (ECA) Regional Agroforestry Education and Training Groups (RAFTs) Workshop.
- 7th-10th May 2001 Tropical Soil Biology and Fertility Programme (TSBF) AFNET 8th Workshop, Arusha Tanzania.

- 1st -3rd March 2000. Chaired and guided ANAFE?ICRAF funded Curriculum Review workshop for Soil and Water conservation Department, Venue: Mekelle University College, Ethiopia.
- 3rd-10th Nov 2000 Annual Conference of the Soil Science Society of America. Minneapolis, USA.
- 15th - 26th May 2000 Conference of the Parties to the Convention on biological Diversity fifth meeting. UNEP Nairobi.
- 28th -29th May 1999. The Eastern Africa Environmental Network ninth conference on land care and community stewardship in eastern Africa.
- Nov 1998: Three-day National Agroforestry Research Project workshop at Embu, Kenya.
- 25th-29th March 1996. First Kenya National Agroforestry Conference. Nairobi, Kenya.

7.2. Presentation of papers at Academic and Professional Conferences.

- The Role of Researchers in Bridging Information Gaps between Farmers, Extension Agents and Policy Makers for Improved Food Production in Africa, Paper presented at the International Conference on Integrated Soil Fertility Management in Africa; From Microbes to Markets at Nairobi Safari P, 22nd to 26th October 2012.
- The Impacts of Climate Variability and Change on Natural Resource Use by Gender Among the Samburu Pastoralists Communities in Kenya, A paper presented in the International Conference on Climate Adaptation held at University of Arizona, Tucson USA on 26-31 May 2012.
- Impacts of Climate Change and Conflicts among Pastoralist Communities in Kenya. A paper presented in a workshop in Paris, France on 19th December 2011.
- Could Climate Change be the Cause of Conflicts in Eastern Africa? A paper presented in a workshop in Paris, France on 12th December 2011.
- Gender Vulnerability to Impacts of Climate Change among Samburu Pastoralist Community in Kenya. A paper presented at IFRA workshop held on 21-23rd Nov. 2011 at Nairobi, Kenya.
- Opportunities and challenges of mainstreaming climate change into agriculture and natural resource education in Africa. A paper presented during the 2nd World Congress of Agroforestry held at United Nation Complex Nairobi, Kenya on 23-28th August 2009.
- Climatic change and the Environment: Research, Education/Training and Outreach in Kenya. A paper presented during the East Africa Regional Workshop on ‘Climate change: Responses and Mitigations through Agriculture and Environmental Management in East Africa’ held at Speke Hotel, Munyonyo, Kampala Uganda on 22nd to 25th February 2009.
- Helping Small Scale Tree Farmers in Africa Participate in Carbon Trade. A paper presented on 25-27th Nov. 2008 during the open science conference on “Africa and Carbon Cycle: the CarboAfrica Project at Accra Ghana.
- Helping small holder tree farmers in Africa participate in carbon trading: A case of Siakago, Kenya. A paper presented during the CTA Seminar on the Implications of Global Climate change for sustainable Agricultural Production Systems in ACP Countries on 26th -31st October 2008 at Ougadougou, Burkina Faso.
- Opportunities for carbon trading among smallholder on-farm tree farmers in Kenya’s semi arid lands. A paper presented during the 4th Kenya Forestry Research Institute (KEFRI) Conference held on 6th- 9th October 2008 at KEFRI Headquarters, Muguga, Kenya.

- Opportunities for carbon trading among smallholder agroforestry farmers in Africa: A case study of Siakago, Kenya. A paper presented during the 2nd ANAFE Symposium “Mainstreaming climate change in agricultural education” on 28 July - 1st Aug 2008 at Capital Hotel, Lilongwe, Malawi

8.0 SOME RECENT PUBLICATIONS

8.1 Scientific Journal Articles

- Monicah Mucheru-Muna, J.B., Mugendi D., Pypers P., Mugwe J., Kung'u J.B., Vanlauwe B., and Merckx R. 2014. Enhancing maize productivity and profitability using organic inputs and mineral fertilizer in central Kenya small-holder farms. *Experimental Agriculture* . (2014). Vol.50 (2), pp.250-269.
- Kleinschroth F., Schoning C., **Kung'u J. B.**, Kowarik I. and Cierjacks A. 2013. Regeneration of the East African timber tree *Ocotea usambarensis* in relation to historical logging. *Forest Ecology and Management* Vol. (291), pp 396-403.
- Oeba V.O, Otor S.C.J, Kung'u J.B and M.N. Muchiri 2012. Modelling determinants of tree planting and retention on farm for improvement of forest cover in central Kenya. *International Scholarly Research Network Journal DOI 10, 5402/2012/867249 pp*
- Mutegi E.D, **Kung'u J.B.**, Mucheru-Muna, Mugendi D.N. 2012. Consequences of organic-mineral N soil fertility. *Journal of Soil Science and Environmental Management* Vol. 1(1), pp. 9 – 14.
- Mutegi E.D., **Kung'u J.B.**, Mucheru-Muna, Pieter P and Mugendi D.N. 2012. Complementary effects of organic and mineral fertilizers on maize production in the smallholder farms of Meru South District, Kenya. *Agricultural Sciences* Vol 3 (2), pp 221-229.
- Githiomi J.K., **Kung'u J.B.** and Mugendi D.N. 2012. Analysis of woodfuel supply and demand balance in Kiambu, Thika and Maragwa districts in central Kenya. *Journal of Horticulture and Forestry* Vol. 4(6), pp. 103-110.
- Githiomi J.K., Mugendi D. N. and **Kung'u J. B.** 2012. Analysis of household energy sources and woodfuel utilization technologies in Kiambu, Thika and Maragwa districts of Central Kenya. *Journal of Horticulture and Forestry* Vol. 4(2), pp. 43-48
- Githiomi J. K.1*, Mugendi D. N.2 and **Kung'u J. B.** 2012. Household tree planting and its related constraints in meeting woodfuel production in Kiambu, Thika and Maragwa Districts of Central Kenya. *Journal of Horticulture and Forestry* Vol. 4(7), pp. 120-125.
- K.E. Giller, P. Tittonell, M.C. Rufino, M.T. van Wijk, S. Zingore, P. Mapfumo, S. Aldjei-Nsiah, M. Herrero, R. Chikowo, M. Corbeels, E.C. Rowe, F. Baijukya, A. Mwijage, J. Smith, E. Yeboah, W.J. van Burg, O.M. Sanogo, M. Misiko, N. de Ridder, S. Karanja, C. Kaizzi, **J. Kung'u**, M. Mwale, D. Nwaga, C. Pacini, B. Vanlauwe . 2011. Communicating complexity: Integrated assessment of trade-offs concerning soil fertility management within African farming systems to support innovation and development. *Agricultural Systems*. 104 (2011) 191-203
- Muthamia J.M., Mugendi D.N., **Kung'u J.B.** and Vanlauwe B. 2011. Between and within-farm variability in soil fertility management and status in the central highlands of Kenya. *Journal of Agricultural Science and Technology*. A 1. pp. 270-284.
- Mucheru-Muna MW, Pypers P, Mugendi D, **Kung'u J**, Mugwe J, Merckx R and Vanlauwe B. **2010**. A staggered maize-legume intercrop arrangement robustly increases

crop yields and economic returns in the highlands of central Kenya. *Field Crops Research* 115: 132-139

- Nganga, S. K., **Kungu, J.**, Ridder, N. and Herrero, M. 2010. Profit efficiency among Kenyan smallholders milk producers: A case study of Meru-South district, Kenya. *African Journal of Agricultural Research* Vol. 5(4), pp. 332-337
- Mugwe J, Mucheru-Muna MW, Mugendi DN, **Kung'u J**, Bationo A, Mairura F. 2009. Adoption potential of selected organic resources for improving soil fertility in the central highlands of Kenya. *Agroforestry Systems* DOI 10.1007/s10457-009-9217-y
- Mugwe J., Mugendi D., Kung'u J., Mucheru-Muna M. (2009). Maize yields response to application of organic and inorganic inputs under on-station and on-farm experiments in central Kenya. *Expl Agric* 45: pp. 47-59.
- Kung'u J.B., Wangombe E., Otor C.J. (2008). Community participation in dry land forest conservation: the case of Nuu and Iveti hills in Kenya. *African Journal of Environmental Studies and Development* Vol. 1.(12), pp. 87-91
- Kung'u J.B., Rodel D.L., Dela-Cruz L.U., Dela-Cruz R. E., Husain T. 2008. Effect of arbuscular mycorrhiza (VAM) fungi inoculation on coppicing ability and drought resistance of *Senna spectabilis*. *Pak, J. Bot.*, 40(5): 2217-2224.
- Kung'u, J.B, Kihara J., D.N., Jaenicke H. (2008). Effect of small-scale farmers' tree nursery growing medium on agroforestry tree seedlings' quality in Mt.Kenya region. *Scientific Research and Essay* Vol.3 (8), pp. 359-364.
- Mugendi D., Mucheru-Muna M., Mugwe J., Kung'u J. Bationo A. (2008). Best Bet soil fertility technologies for improved food production in the central highlands of Kenya. *African Journal of Environmental Studies and Development* Vol. 1.(12), pp. 8-15.
- Mucheru M.M, Mugendi D., Mugwe J. Kung'u J. (2008). Maize yields and mineral-N movement as affected by organic and inorganic inputs in a humic nitisols in Meru South district, Kenya. *African Journal of Environmental Studies and Development* Vol. 1.(12), pp. 99-107.
- Mutegei J., Mugendi D.N., Verchot, L. and Kung'u J.B. (2008). Combining napier grass with leguminous shrubs in contour hedgerows controls soil erosion without competing with crops. *Agroforestry Systems* DOI 10.1007/s10457-008-9152-3.
- Mucheru-Muna M., Mugendi D.N., Kung'u J.B, Mugwe J. and Bationo A.. (2007) Effects of organic and mineral fertilizer inputs on maize yield and soil chemical properties in maize cropping system in Meru South District, Kenya. *Agroforestry Systems* 69: 189-197.
- J.Mugwe, D. Mugendi, M. Mucheru and J.Kung'u. (2005). Use of legumes, tithonia and manure to increase crop production under on-farm conditions in the central highlands of Kenya. *African crop science* 17: 65-69
- Kimetu J.M., Mugendi D.N., Palm C.A., Mutuo P., Gachengo N., Bationo A, Nandwa S., and Kung'u J.B., (2004): Nitrogen fertilizer equivalencies of organics of differing
- D.N. Mugendi, M. Kanyi, J.B. Kung'u, W. Wamicha and J.N. Mugwe (2004) The role of agroforestry trees in intercepting leached nitrogen in the agricultural systems of the Central Highlands of Kenya. *East African Agricultural and Forestry journal* Vol. 69: 69-79.
- D. Mugendi, M. Mucheru, J. Kung'u, S. Otor, A. Micheni and J. Mugwe. (2003). Soil fertility improvement strategies for increased food production in the central highlands of Kenya. *African crop science* 5: 897-904

8.2 Book Chapters

- **Kung'u J.B.** 2011. The role of forest resources in the strategies of rural communities coping with the HIV/AIDS epidemic in Sub-Sahara Africa. In Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina and Job Kihara (Eds): *Innovations as Key to the green revolution in Africa pg 1303-1310*. Springer Dordrecht Heidelberg London New York.
- Mutege J.K., Mugendi D.N., Verchot L.V. and **Kung'u J.B.** 2011. The role of Biological Technologies in land quality management: Drivers for farmer's adoption in the central highlands of Kenya. In Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina and Job Kihara (Eds): *Innovations as Key to the green revolution in Africa pg 501-512*. Springer Dordrecht Heidelberg London New York.
- Mucheru-Muna, M., Mugendi D.N., Pypers P., Mugwe J. Vanlauwe B., Merckx and **Kung'u J.B.** 2011. Effect of Organic Inputs and mineral fertilizer on maize yield in a ferralsol and nitisol in central Kenya. In Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina and Job Kihara (Eds): *Innovations as Key to the green revolution in Africa pg 191-203*. Springer Dordrecht Heidelberg London New York.
- Mugwe J., Mugendi D.N. Mucheru-Muna M., and **Kung'u J.B.** 2011. Soil Inorganic N and N uptake by maize following application of legume biomass, Tithonia, Manure and Mineral Fertilizer in Central Kenya. In Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina and Job Kihara (Eds): *Innovations as Key to the green revolution in Africa pg 605-616*. Springer Dordrecht Heidelberg London New York.
- Muthamia J.M., Mugendi D.N, and **Kung'u J.B.** 2011. Within-Farm Variability in Soil Fertility Management in Smallholder Farms of Kirege Location, Central Highlands of Kenya. In Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina and Job Kihara (Eds): *Innovations as Key to the green revolution in Africa pg 707-716*. Springer Dordrecht Heidelberg London New York.
- Mucheru-Muna M., Mugendi D.N., Pypers P., Mugwe J., Vanlauwe B., Merckx, and **Kung'u J.B.** 2011. Increasing Productivity Through Maize-Legume Intercropping in Central Kenya. In Andre Bationo, Boaz Waswa, Jeremiah M. Okeyo, Fredah Maina and Job Kihara (Eds): *Innovations as Key to the green revolution in Africa pg 843-858*. Springer Dordrecht Heidelberg London New York.
- **Kung'u, J.B.**, Gichu, A. and Mugendi D. **2011**. Potential of Smallholder Tree Farmers in Africa's Arid and Semi Arid Lands (ASALS) Participating in Carbon Trade. In Towards Implementation of payment for Environmental Services (PES), pg.313-320, ASARECA, Entebbe, Uganda .
- **Kung'u J.**, Gichu A. and Mugendi D. **(2010)**. Helping Small Scale Tree Farmers in Africa Participate in *Carbon Trade*. In *Africa and the Carbon Cycle Proceedings of the Open Science Conference on "Africa and Carbon Cycle: the CarboAfrica project"* pg 177-183. Food and Agriculture Organization, World Soil Resources Reports 104, Rome, Italy.
- Kung'u J.B. and S. Otor. (2008). The Role of Forestry Education in Rural Strategies to Cope With HIV/AIDS in SSA in Temu AB, Chamshama SAO, Kung'u J, Kaboggoza J, Chikamai B and Kiwa A (eds): *New Perspectives in Forestry Education*. World Agroforestry Centre.
- Kung'u J.B. (2007). Food security in Africa: The challenges of researchers in the 21st

century. In Andre Bationo, Boaz Waswa, Job Kihara and Joseph Kimetu (Eds). *Advances in Intergrated Soil Fertility Management in sub-Sahara Africa: challenges and opportunities* pg105-113. Springer, Dordrecht, The Netherlands.

- Mugendi D., Mucheru-Muna M., Mugwe J., Kung'u J. and A. Bationo . 2007. Improving food production using “best bet” soil fertility technologies in the Central highlands of Kenya. In Andre Bationo, Boaz Waswa, Job Kihara and Joseph Kimetu (Eds). *Advances in Intergrated Soil Fertility Management in sub-Sahara Africa: challenges and Opportunities* pg345-351. Springer, Dordrecht, The Netherlands.
- Monicah Mucheru-Muna, Mugendi D., Mugwe J. and J. Kung'u. 2007. Economic evaluation of local inputs in Meru South district, Kenya. . In Andre Bationo, Boaz Waswa, Job Kihara and Joseph Kimetu (Eds). *Advances in Intergrated Soil Fertility Management in sub-Sahara Africa: challenges and Opportunities* pg443-448. Springer, Dordrecht, The Netherlands.
- Karunditu M.W., Mugendi D.N., Kung'u J. and B. Vanlauwe (2007). Fertilizer nitrogen recovery as affected by soil organic matter status in two sites in Kenya. In Andre Bationo, Boaz Waswa, Job Kihara and Joseph Kimetu (Eds). *Advances in Intergrated Soil Fertility Management in sub-Sahara Africa: challenges and Opportunities* pg537-545. Springer, Dordrecht, The Netherlands.
- Mutegi J., Mugendi D., Verchot L., and Kung'u J. (2007). Soil Erosion and Soil Inorganic-N Depletion as Influenced by Live hedges in Arable Steep-lands of the Central Highlands of Kenya. In Andre Bationo, Boaz Waswa, Job Kihara and Joseph Kimetu (Eds). *Advances in Intergrated Soil Fertility Management in sub-Sahara Africa: challenges and Opportunities* pg679-689. Springer, Dordrecht, The Netherlands. 13
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- **Kung'u J.B. (Editor) 2001.** Training Manual on Gender and Natural Resource Management and legal rights issues of communities on natural resource management (Resource Project) unpublished.
- **Mucheru MW, Mugendi DN, Micheni A, Mugwe JN, Kung'u JB, and Gitari JN 2001.** Improved food production using herbaceous legumes in the central highlands of Kenya. *Legume Research Network Project Newsletter* 5:15-17.
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- **Kung'u J.B and A.B. Temu 2001.** Agroforestry Curricula in African Universities and Colleges. ICRAF Nairobi (Unpublished).

12. Membership to Professional Bodies

- Member, Africa Forest Forum
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- Member, African Network of Tropical Soil Biology and Fertility

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