

CURRICULUM VITAE

1.0 PERSONAL PARTICULARS

Name: **Jamidu Hizzam Yahaya Katima**.
Date & Place of Birth: 6th April 1955 / Katoro - Bukoba.
Nationality: Tanzanian.
Marital Status: Married.

2.0 QUALIFICATIONS

(a) University Attended / Qualification Obtained / Year

- 2.1 Leeds University / PhD / 1990
- 2.2 Loughborough University / MPhil / 1986
- 2.3 Dar Es Salaam University / BSc. (Eng. Hons.) / 1982

(b) Short Courses attended/ organisers/Place /Date

- 2.4 International Workshop on Training Approaches for Environmental Management in Industry, UNEP, WHO and ILO/ Mauritius/ 4-8th October 1993
- 2.5 Greenhouse Gas Mitigation Assessment Workshop/ USA/ Berkeley / 19 - 28th April 1995
- 2.6 International Workshop on Energy and Environment for Sustainable Development: Planning for Energy and Environment / Technology Development Group & International Institute for Aerospace Survey and Earth Sciences/ Enschede , The Netherlands/ 15 May - 17th June 1995
- 2.7 UNEP Workshop on Cleaner and Safer Industrial Production for Eastern and Southern African Countries /UNEP / Nairobi, Kenya/ 21 - 24th November 1995
- 2.8 International Workshop on hazardous waste Management/ Basel Institute of Technology/ Basel, Switzerland/ 2 - 27th September 1996
- 2.8 Environmental Management Seminar (African Countries)/JICA/Osaka, Japan/7th June -20th July 1997
- 2.9 Implementing Environmental Management System/Christchurch, New Zealand/19 –20th April 1998.
- 2.10 Webinar – PFOS – March 2013
- 2.10 Global workshop on updating national implementation plans (NIPs), including updating and revising PCDD/PDCP inventories, held from 19 to 22 March 2013 in Dakar, Senegal
- 2.11 The African regional workshop on Technology Needs Assessment (TNA) project to be held in Cape Town, South Africa from the 23rd – 26th February, 2016

3.0 ACADEMIC POST HELD AT THE UNIVERSITY / DATES

- 3.1 Professor / July 2002 to date
- 3.2 Associate Professor / July 1996 to June 2002
- 3.3 Senior Lecturer / July 1992 to June 1996
- 3.4 Lecturer / July 1989 to June 1992
- 3.5 Assistant Lecturer / July 1986 to June 1989
- 3.6 Tutorial Assistant / April 1982 to June 1986

4.0 SENIOR ADMINISTRATIVE LEVEL EXPERIENCE

- 4.1 Vice Chancellor: Kampala International University in Tanzania 20th February 2018 to date.
- 4.2 Principal: College of Engineering and Technology, April 2009 to March 2012
- 4.3 Deputy Principal: Academic, Research and Consultancy, December 2007 to March 2009.
- 4.4 President, Institution of Engineers Tanzania, December 2004 to 8th December 2006.
- 4.5 Dean of Faculty, Faculty of Mechanical and Chemical Engineering, 16th December 2001 to 3rd December 2007.
- 4.6 Vice President, Institutional of Engineers Tanzania, December 2000 to December 2004
- 4.7 Head of Department, Chemical and Process Engineering Department, August 2000 to 15th December 2001.

5.0 MEMBERSHIP OF BOARDS

National

- 5.1. Chairman – Energy and Water Utility Regulatory Authority 24th August 2015 to 23rd August 2019
- 5.2. Member, Mzinga Corporation Board, May 2009 to April 2014
- 5.3. Member, Ministerial Advisory Board of the Governmental Chemist Laboratory Agency, 2006 to December 2010

- 5.4. General Secretary: Tanzania Greenhouse Gas Action Trust, July 1999 to 2005.
- 5.6. Member of the Executive Committee of IET& Head of Chemical and Process Engineering Group / July 1998 to December 2003
- 5.7. Member of the National Environmental Management Standards Committee, May 1997 to Date
- 5.8. Member of the National Steering Committee on Chemicals Management 1996 to date
- 5.9. Council Member, Institution of Engineers, Tanzania / Jan. 1994 to Dec. 1996, & Dec. 1997 to date
- 5.10. Member of Engineering Registration (T) Board Education and Training Committee, February 1998 to September 2003

International

- 5.11. Member – Scientific and Technical Advisory Panel (STAP) of the Global Environmental Facility (GEF), December 2018 to date
- 5.12. Member Advisory Editorial Board “Sustainable Wastewater Treatment Technologies” CRC Press (A.A. Balkema /Francis & Taylor Group). May 2013 to date
- 5.13. Member of Executive Committee – IPEN, December 2011 to date
- 5.14. Member of the Emission Factor Data Base Editorial Board of the IPCC July 2010 to date
- 5.15. Member, Governing Board of BioEarn, March 2007 to 2009
- 5.16. Member, Technical Advisory Group, of The Global Environmental Facility, - for establishment of A Chemicals Management Window in GEF. January 2007 to 2009
- 5.17. Member, Registration and Issuance Team of the Clean Development Mechanism of the Kyoto Protocol, April 2006 to 2009
- 5.18. Honorary Board Member, Arab Healthy Water Association, February 2005 to date
- 5.19. Board Member and Treasurer, South African Climate Action Network (SARCAN), August 2004 to date.
- 5.20. Bureau Member, Intergovernmental Panel on Climate Change (IPCC) Task Force Bureau, April 2002 to December 2008
- 5.21. Secretary of the Programme Committee, 8th IWA International Conference on Wetland Systems for Water Pollution Control, 2000 – 2002

International

- 5.6. Panel Member – Scientific and Technical Advisory Panel (STAP) 2018 – to date
- 5.7. Africa Regional Focal Point, Strategic Approach for International Chemicals Management –2012 to 2015
- 5.8. Chairman of the Board, BioEarn Project 7th September 2006 to December 2010
- 5.9. Co-Chair, International POPs Elimination Network, April 2006 to June 2010
- 5.10. Vice President Intergovernmental Forum on Chemical Safety (Representing Africa Region), Nov. 2003 to 2006.

6.0 TEAM LEADER OF RESEARCH GROUP

- 6.1. Team Leader, Preparation of National Profile for the Management of Chemicals 1998 – 2000
- 6.2. Coordinator and Lead Researcher, PISCES Project July 2007 to date
- 6.3. Coordinator and Lead Researcher, PUMPSEA Project, 2005 to December 2008
- 6.4. Local Responsible Party, DANIDA –ENRECA Project of WSP and Constructed Wetlands, 2004 to date.
- 6.5. Project Supervisor: UDSM-MHO Environmental Engineering Project, January 1997 to 2001.
- 6.6. Team Leader – Dioxin Working Group, Preparation of NIP for the Stockholm Convention 2002 to date.

7.0 MEMBER OF PROFESSIONAL BODIES

- 7.1. Fellow of the Institution of Engineers Tanzania, 2001 to date
- 7.2. Registered Engineer, Tanzania Engineering Registration Board, 1994 - 1999
- 7.3. Registered Consulting Engineer, Tanzania Engineering Registration Board, 1999 to date
- 7.4. Member International Water Association

8.0 FACILITATOR AND EDITOR

- 8.1. Chief Editor- the Tanzania Engineer, December 1997 to December 2004 and from 2012 to December 2016
- 8.2. Editor in Chief - UHANDISI Journal, July 1994 to September 1997.
- 8.3. Facilitator, Climate Change: An African Perspective – A World Bank Distance Learning Course August 13 through September 26, 2002
- 8.4. Facilitator, World Health Organisation’s Environmental Risk Assessment and Hazards Mapping, Eritrea, 14-18 October 2002.

- 8.5. Review Editor: Chapter 5 for the LULUCF Good Practice Report, Land Use Land Use Change Forest Inventory Programme of the Intergovernmental Panel on Climate Change, September 2002 to 2003
- 8.6. Review Editor of the Volume 3 (Industrial Processes and Products) of the IPCC- 2006 Greenhouse Inventory Guidelines July 2004 to February 2006.
- 8.7. Lead Author, Chapter 4 (on Atmospheric Chemistry) of the Third Assessment Report of the Intergovernmental Panel on Climate Change (IPCC), 1998 – 2001.
- 8.8. Facilitator, Training of the Africa Conventions Negotiators/ African Institute / October 2017

9.0 INDUSTRIAL EXPERIENCE

- 9.1. Allied Colloids (UK)/ Chemical Engineer / Oct. 1990 to Sept. 1991: Involved in trouble shooting, optimisation of a production process, designing of a new process line, installation and commissioning of new process equipment and hazard analysis for new process units.

Summary of Experiences

Prof. Dr. Katima: a chemical engineer by training is a retired Professor of Chemical Engineering at the University of Dar es Salaam and he is the Vice Chancellor of the Kampala International University in Tanzania. His PhD research focussed on Reaction Kinetics of NO₂ into NaOH. Over the years his research, training and consultancy interests have focused on Climate Change, Renewable Energy, Environmental Management, Impact Assessment, Wastewater Treatment using Constructed Wetlands, Monitoring and Evaluation and Life Cycle Assessment. Prof. Katima is a registered expert with the Scientific and Technical Advisory Panel (STAP) of the Global Environmental Facility (GEF); a Registered UNFCCC Expert – Clean Development Mechanism (CDM) Methodologies; He has served as a Bureau Member of the Intergovernmental Panel on Climate Change (IPCC) – Task Force Bureau for the Greenhouse Gas (GHG) Inventories and he has served as a Member of the Editorial Board of the Emission Factors of the IPCC. Prof. Katima has championed research in use of wetland systems for treatment of wastewater in Tanzania, under which some novel designs of wetlands have been developed among them integrated wastewater treatment system with mitigation of GHG emission through energy generation. Prof Katima served and Principal Investigator for a Multinational Project on Policy Innovation Systems for Clean Energy Security Project (PISCES), which developed a gasifier stove, modified plant oil for use in low speed engines, and developed third generation conversion of cellulose to produce bioethanol. He was also a PI for the Multinational Project on Peri-Urban Mangrove Forest as filters and Potential Phytoremediators of Domestic sewage in East Africa (PUMPSEA). He has successfully undertaken more than 120 Consultancy projects for the local and international organisations and companies and has published more than 100 papers in local and international peer reviewed journals. He is a Member of Editorial Board of the Tanzania Journal of Engineering and Technology, Member of the Editorial Board of African Journal of Engineering and Member of the Advisory Editorial Board of the “Sustainable Wastewater Treatment Technologies” CRC Press (A.A. Balkema /Francis & Taylor Group).

10.0 AWARDS

- 10.1 Nobel Peace Prize 2007: One of the IPCC Scientists who contributed to the co-award of the Nobel Peace Prize to IPCC and Al Gore (Former USA Vice President).

11.0 PUBLICATIONS

(a) Journal Papers (in peer Reviewed Journal)

- 11.1. JHY Katima and D. Handley, Modelling of NO_x Absorption into NaOH Solution in a Packed Column, *Trans. IChemE*, Vol.69, Part B, 1991, pp 153 – 159
- 11.2. JHY Katima, A. Azapagic and D. Handley, NO_x Absorption into NaOH; Effect of NaOH Concentration, *Trans. IChemE.*, Vol.70, Part B, 1992, pp 39 – 43
- 11.3. JHY Katima, A. Azapagic and D. Handley, NO_x Absorption into NaOH; Effect of Temperature and Gas Flow Rate, *Trans. IChemE.*, Vol.71, Part B, 1993, pp 50 – 56
- 11.4. S Kayombo, TSA Mbwette, AW Mayo, J.H.Y. Katima, and SJ Jørgensen. Modelling Diurnal Variation of Dissolved Oxygen in Waste Stabilisation Ponds. *Ecological Modelling*, Vol. 127, 2000, pp. 21 – 31
- 11.5. JHY Katima: Production of Biogas From Water Hyacinth: Effect of Substrate Concentration, Particle Size And Incubation Period: *The Tanzania Journal of Science*, Vol. 27, 2001, pp 107-119

- 11.6. S Kayombo, TSA Mbvette, AW Mayo, J.H.Y. Katima, and SJ Jørgensen. The Diurnal Cycles of Physical - Chemical Parameter In Waste Stabilisation Ponds. *Ecological Engineering*, Vol. 18, 2001, pp 286-291
- 11.7. MA Senzia, AW Mayo, TSA Mbvette, JHY Katima and SE Jorgensen: Modelling Nitrogen Transformation and Removal in Primary Facultative Ponds, *Ecological Modelling*, Vol. 154, 2002, pp 207-215
- 11.8. Z.P.G. Masende, B.F.M. Kuster, K.J. Ptasinski, F.J.J.G. Janssen, J.H.Y. Katima, J.C. Schouten. Platinum catalysed wet oxidation of phenol in a stirred slurry reactor. Mass transfer and reaction kinetics, submitted to the *Journal of Applied Catalysis*, Vol 41, 2003, pp 247 – 267
- 11.9. KN Njau, JHY Katima and R Minja: Pumice Soils: A Potential Substrate in Constructed Wetland Treatment Systems. *Water Science*, Vol. 48 No. 5, 2003, pp 85-92
- 11.10. RJ Kimwaga, DA Mashauri, TSA Mbvette, JHY Katima and SE Jorgensen: Use of coupled dynamic roughing filters and subsurface horizontal flow constructed wetland system as appropriate technology of upgrading waste stabilization ponds effluents in Tanzania, *Physics and Chemistry of the Earth* Vol. 29, 2004, pp 1243-1251
- 11.11. LJ Mnzava, AW Mayo and JHY Katima: In search of geothermal energy power in Tanzania: the role of geophysics. In JF Martin-Duque et al (Ed), *Geo-Environment – Monitoring, Simulation and Remediation of the Geological Environment*, WIT Press Southampton, Boston, 2005. pp 25 –36
- 11.12. Z.P.G. Masende, B.F.M. Kuster, K.J. Ptasinski, F.J.J.G. Janssen, J.H.Y. Katima and J.C. Schouten. Support and dispersion effects on activity of platinum catalysts during wet oxidation of organic wastes. *Topics in Catalysis*, Vol 33, No. 1-4, 2005, Pp 87-99
- 11.13. Z.P.G. Masende, B.F.M. Kuster, K.J. Ptasinski, F.J.J.G. Janssen, J.H.Y. Katima, J.C. Schouten. Kinetics of malonic acid degradation in aqueous phase over Pt/graphite catalyst. *Applied Catalysis B: Environmental*. Vol. 56, 2005 pp189 – 199.
- 11.14. L. Daniel and J.H.Y. Katima. Factors Influencing Catalytic Wet Peroxide Oxidation of Maleic Acid in Aqueous Phase over Copper/ Micelle Templated Silica-3-Aminopropyltrimethoxysilane Catalyst. (2009) *Water Science and Technology Journal* Vol. 60 No 10 pp 2621-2627
- 11.15. Anderson Mlaki, Jamidu Katima, Henry Kimweri (2011). Gold Recovery from Gold Bearing Materials Using Bio-Diesel, Vegetable Oils and Coal. *Engineering*, V. 3 pp 555-560
- 11.16. K. N. Njau, L. Gastory, B. Eshton, J. H. Y. Katima, R. J. A. Minja, R. Kimwaga and M. Shaaban (2011) Effect of diffusional mass transfer on the performance of horizontal subsurface flow constructed wetlands in tropical climate conditions. *J. Water Science and Technology*, 63(12), 3039-3050.
- 11.17. Nyangi Chacha, Kai Toven, Godliving Mtui, Jamidu Katima and Godwill Mrema (2011). Steam Pretreatment of Pine (*Pinus Patula*) Wood Residue for the Production of Reducing Sugars. *Cellulose Chemistry and Technology*. Vol. 45 (7-8), pp 495-501
- 11.18. Chacha N., Dyrset N., Mtui G., Katima J., and Mrema G. (2012). Comparison of *Escherichia coli* KO11 and *saccharomyces Cervisiae* ATCC 96581 in fermenting *Pinus patula* hydrolysates pretreated at different steam explosion severity. *African Journal of Biotechnology*. 11(37): 9054-9063.
- 11.19. Jamidu H.Y. Katima, Leonard Gastory and Karoli N. Njau (2013). Treatment of acid mine drainage using constructed wetland in tropical environment - a Tanzanian case Report, *Journal of Agricultural Science and Technology A & Journal of Agricultural Science and Technology B*, Vol. 3, No. 6, pp 439-446
- 11.20. Mlaki A. E. L., Katima J. H. Y., Kimweri H.T. (2013). Effect of gangue minerals on hydrophobic recovery of gold. *Engineering – Scientific Research*, Vol. 5 pp 316-321.
- 11.21. Lilian Daniel and Jamidu HY Katima (2013). Performance of activated carbons in the catalytic wet peroxide oxidation (CWPO) of maleic acid. Accepted for publication in the *Journal of Engineering and Technology Research*. Vol. 5(4) pp189 – 199
- 11.22. J.N. Mhaiki, E. Masanja, J.H.Y. Katima, G.K. Rajarao and G. Dalhammar (2013) Isolation And Characterisation Of Micro-Organisms With Industrial Importance From Sisal Bole Rots. *The Tanzania Journal of Engineering and Technology*. Vol 4. No. 1 pp 26 – 35
- 11.23. Bilha Eshton, Jamidu Katima and Evans Kituyi (2013). Greenhouse emission and energy balances of jatropha biodiesel as an alternative fuel in Tanzania. *Biomass and Bioenergy* Vol 58, pp95 - 103
- 11.24. Anamagreth Andrew, Jamidu Katima, James Mdoe, Lee Keat Teong (2014). Kinetics of Vegetable Oil Transesterification Catalyzed by Magnesium Oxide Supported on Cashew Nut Shell Liquid Templated Mesoporous Silica. *Journal of Materials and Chemical Engineering*. Oct. 2014, Vol. 2 Iss. 4, PP. 94-106
- 11.25. Happiness Mlay, Jamidu H. Y. Katima, Ruwaichi J. A. Minja (2014). Modifying Plant Oils for Use as Fuel in Rural Contexts Tanzania: Techno-Economic Analysis *Open Journal of Modelling and Simulation*. Vol. 2 pp 43-56
- 11.26. F Nyihirani, JHY Katima, Y Mbululo (2014). Performance of Environmental Impact Assessment (EIA) Regime in Tanzania. *Ethiopian Journal of Environmental Studies and Management*. Vol. 7 No 1.
- 11.27. Bilha Eshton and Jamidu H.Y. Katima (2015). Carbon footprints of production and use of liquid biofuels in Tanzania. *Renewable and Sustainable Energy Reviews* Vol. 42 pp 672–680
- 11.28. Happiness Mlay, Jamidu H. Y. Katima, Rwaichi J. A. Minja (2015). Plant Oil Blends as Alternative Fuels for Low- and Medium Speed Diesel Engines: Natural Gas Condensate Utilisation. *American Journal of Engineering, Technology and Society*, 2(3), 35-45.

- 11.29. *Happiness* Mlay, Jamidu H. Y. Katima, Rwaichi J. A. Minja (2015). Plant Oil/Fusel Oil Blends as Alternative Fuels in Low-and Medium Speed Diesel Engines, *American Journal of Energy Science*, 2(2), 9-16.
- 11.30. Paschal Chrisogoni, Leonard Gastory, Jamidu Katima and Karoli N. Njau. Application of up-flow anaerobic *sludge* blanket reactor integrated with constructed wetland for treatment of banana winery effluent; *Water Practice & Technology* Vol.12 No. 3, pp 667-674.
- 11.31. N Msuya, JHY Katima, E Masanja and AK Temu (2017). Poly(lactic acid) – PLA Production - from monomer to polymer: A Review. *Scifed Journal of Polymerscience* Vol 1, No. 1 pp 1 – 15
- 11.32. N. Msuya , R. J. A. Minja, J. H. Y. Katima, E. Masanja, A. K. Temu (2018). Separation and Purification of Lactic Acid from Sisal Wastes. *American Journal of Chemistry* Vol. 18 No. 1 pp 13-18
- 11.33. N. Msuya, J. H. Y. Katima, R. J. A. Minja, E. Masanja, A. K. Temu (2018). Characterization of Sisal Boles for Production of Polylactic Acid (PLA). *American Journal of Chemistry* Vol. 8 No. 2. Pp 36 – 40.
- 11.34. Wajihu Ahmada, Jamidu H. Y. Katima, Richard Kimwaga, Rob Van Deun (2018). Pathogens Removal from Wastewater Using Sustainable Treatment Wetlands in Tanzania: A Review. *American Journal of Environmental Engineering* Vol. 8 No. 2. Pp 17 – 24.
- 11.35. Outwater, AH; Zachariah, A; Nyomora, A; Francis, F and Katima, JHY (2019). Potential of adding a Constructed Wetland/Fishpond to Waste Stabilization Ponds in order to improve Helminths removal in Morogoro Municipality, Tanzania. *J. Appl. Sci. Environ. Manage.* Vol. 23 (12) 2201-2203v

b) Books/Chapters in Books

- 11.36. HY Katima et al in JT Houghton et al: *Climate Change 2001: The Scientific Basis. Cambridge University Press*, 2001, Chapter 4, pp 241 – 280
- 11.37. B. Shutes and JHY Katima Edt. *Water Science and Technology: Wetland Systems for Water Pollution Control VIII*, Vol. 48 No. 5, ISBN 184339 4502, 2003
- 11.37. JHY Katima 2005, *Constructed Wetland: a Chemical Engineering Perspective. Professorial Inaugural lecture Series* No. 46. Dar es Salaam University Press, Dar es Salaam. ISBN 9976-60-437-8
- 11.38. *Unit Operations Involving Heat and Mass Transfer.* Dar es Salaam University Press. 2011. ISBN 978 9976 60 506 8
- 11.39. Linda Godfrey, Mohamed Tawfic Ahmed, Kidane Giday Gebremedhin, Jamidu H.Y. Katima, Suzan Oelofse, Oladele Osibanjo, Ulf Henning Richte and Arsene H. Yonli (2019). *Solid Waste Management in Africa: Governance Failure or Development Opportunity?* DOI:10.5777/intechopen.86974.

c) Manuals and Strategies

- 11.40. *Health Care Waste Management Guidance Manual for COMESA and SADC Countries / UNIDO / October 2017*
- 11.41. *Health care Waste Management Strategy for COMESA and SADC Countries / UNIDO / October 2017*
- 11.42. *Solid Waste Management Strategy for the Dar es Salaam City / UNEP / Ongoing*

12.0 PARTICIPATION IN NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

- 12.1. Tanzania Country Study on Sources and Sinks for Greenhouse Gases in Tanzania, research sponsored by UNEP, 1993 -1994
- 12.2. Tanzania Country Study for Greenhouse Gases: Costing of Mitigation Options, Research sponsored by GTZ, 1994-1995
- 12.3. Cleaner Production Project for Tanzania Industries, Sponsored by DANIDA 1994 – 1995
- 12.4. National Implementation Plan of the Stockholm Convention, Sponsored by GEF 2002-2004
- 12.5. Strengthening Governance, Civil Society Participation and Public-Private Partnerships within an Integrated National Chemicals and Waste Management Programme, *A Project in Support of National SAICM Implementation: 2006-2009 Sponsored by UNITAR*

13. CONSULTATION SERVICES (FOR THE PAST 5 YEARS)

YEAR	NAME OF THE ASSIGNMENT/CLIENT
2014	<ul style="list-style-type: none"> ➤ Strategic Environmental Assessment. Bagamoyo Special Economic Zone. Export Processing Zone Authority ➤ Environmental and Social Management Information System for the Mining Sector. Ministry of Energy and Minerals ➤ Environmental Audit. The Existing Exploration Well Drilling Operations On The Zafarani- Structure, Block 2, Offshore Tanzania ➤ 7 Environmental Audits of PanAfrican Energy Wells at Songo Songo ➤ Environmental and Social Audit of BG's Block 3 Drilling Wells ➤ Environmental and Social Audit of the Mtwara Port Expansion Project, BG Tanzania ➤ Environmental and Social Impact Assessment of the Mnyera Forest Project. Green Resources

	<ul style="list-style-type: none"> ➤ Monitoring And Evaluation Of The Chemical Accident Prevention And Preparedness Project In Tanzania, CAPP-TZ, Government Chemist Laboratory Agency ➤ Review Of The Performance Audit Report On The Management of Healthcare Waste In Tanzania, The National Audit Office, July 2014
2015	<ul style="list-style-type: none"> ➤ Environmental audits of Songo Songo gas wells 3, 4, 5, 7, 9, 10, 11 and SS-J ➤ Preliminary EIA of the compression and refrigeration plant at Songo Songo gas processing plant ➤ Environmental Audit. The Existing Exploration Well Drilling Operations On Block 1, 3 and 4, Offshore Tanzania ➤ Environmental impact statement (EIS) for The proposed Sakalilo irrigation scheme, Sumbawanga District, Rukwa Region ➤ Environmental and social impact assessment For Upgrading of Kakese-Mwamkulu irrigation scheme located at Kakese Ward, Mpanda District, Katavi Region, Tanzania ➤ Environmental impact statement (EIS) For The proposed rehabilitation of Kigoma port passenger terminal, Kigoma-ujiji Municipality, Tanzania ➤ Environmental and social impact statement (EIS) For Installation and operation of a temporary camp project at Mtomkavu, Mbanja Ward, Lindi Municipality, Lindi Region, Tanzania
2016	<ul style="list-style-type: none"> ➤ Environmental and Social Impact Assessment for the Proposed Flood Protection Measures for Central Railway Line – Kilosa to Dodoma Section (174 Km) in the United Republic of Tanzania; JICA ➤ Environmental and Social Impact Assessment for the Proposed Development of 200MW Upepo Energy Center in Itaja, Mghamo, Kinyagigi, Merya, Maghojoa and Msange wards in Singida District, Singida Region, Tanzania ➤ Evaluation of Wastewater Management System at the KBL Ethanol Production Plant, Mwanga, Tanzania ➤ Environmental And Social Impact Assessment for Offshore 2d Infill- Seismic Survey For Blocks 4/1b and 4/1c In Tanzania
2017	<ul style="list-style-type: none"> ➤ Environmental and Social Impact Assessment & Resettlement Action Plan for the Mara Valley Water Resource Development Projects / Nile Equatorial Lakes Subsidiary Action Program/ Ongoing. ➤ Environmental and Social Impact Assessment & Resettlement Action Plan for the Ngonzo Water Resource Development Projects / Nile Equatorial Lakes Subsidiary Action Program/ongoing. ➤ Preparation of Health Care Waste Management Guidance Manual for COEMSA and SADC Countries / UNIDO/ October 2017 ➤ Preparation of Health care Waste Management Strategy for COMESA and SADC Countries / UNIDO / October 2017 ➤ Preparation of The Africa Solid Waste Outlook / UNEP / December 2017 ➤ Preparation of the Technology Needs Assessment Reports (including Barrier Analysis and Technology Action Plan) for Tanzania / UNEP /December 2017
2018	<ul style="list-style-type: none"> ➤ Preparation of the National Waste Management Strategy / UNEP / 2018 ➤ Preparation of the Waste Management Strategy for Dar es Salaam City / UNEP / 2018
2019	<ul style="list-style-type: none"> ➤ EIA for the East Africa Crude Oil Pipeline /EACOP/ 2019 ➤ EIA for the proposed extension sand mining project / Kioo Ltd. / 2019 ➤ Environmental Impact Statement for the Proposed Expansion of the Sewerage Network in Dar Es Salam and Construction of the Wastewater Treatment Plant at Jangwani, Ilala Municipality, Dar Es Salaam, Tanzania / DAWASCO/2019 ➤ SEDIMENT QUALITY ASSESSMENT IN THE MSIMBAZI VALLEY, DAR ES SALAAM / URT/ 2019
2020	<ul style="list-style-type: none"> ➤ EIA for for the Proposed Development of 45 MWp Solar Power Plant Project in Mungumaji and Unyambwa Wards, Singida Municipality, Tanzania / Upepo Energy / On-Going ➤ Review of the Sustainable Industrial Development Policy 1996 (URT)/ On-going

14. PhD SUPERVISION

SN	Name	Title	Status
M.Sc. Thesis			
1.	S.B. Machibya	Improvement of Solar Salt Production from Seawater	Completed 1993
2.	J.W. Ntalikwa	Investigation of Production of Good Quality Paper Pulp from Sisal Fibre	Completed 1994
3.	A. Haule	Investigations on the Most Suitable Type of Indigenous Plants for Constructed Wetlands in Tanzania	Completed 2003
4.	W. Mwegoha	Modelling of Wastewater Infiltration Through Constructed Wetland soils	Completed 2002

5.	E.A.J. Mwakibolwa	Catalytic Wet Oxidation of Wastewater Pollutants: Modelling of In-situ Remediation of the Platinum Catalyst During Wet Oxidation of Phenol	Completed 2008
6.	L. Daniel	Kinetic Study of Catalytic Wet Oxidation of Maleic Acid Using Heterogeneous Catalysts Pd/ Polyamine-Silica hybrid, Pd/C and Cu/ Polyamine-Silica Hybrid:	Completed 2008
7.	Siajali Pamba	Modelling of Nitrogen Transformation in Mangrove Constructed Wetland	Completed 2008
8.	Anamagreth Andrew	Kinetics of Vegetable Oil Transesterification catalysed by MgO Supported on Cashew Nut Shell Liquid templated mesoporous silica	Completed 2012
9.	Limi Lagu	System optimization for nutrient retention and pathogen elimination in integrated Pond-CW-Farm system	Completed 2016
10.	Wajihu Ahmada	Pathogens removal from wastewater using sustainable treatment wetlands	Completed 2019
PhD (Thesis)			
11.	E. Masalla	Process Development for Citric Acid Production from Sisal Waste	Completed 2002
12.	W.W. Wema	Modelling of the Effect of Mn, Zn and Pb on Microbial Activities and WSP	Completed 2003
13.	M.E. Kaseva	Optimisation of on-site Wastewater Treatment by Using Septic Tank and Constructed Wetlands	Completed 2002
14.	R. Mato	A Rapid Assessment Model for Predicting Groundwater Pollution in Dar es Salaam City	Completed 2002
15.	Z.P.G. Masende	Catalytic Oxidation of Organic Pollutants from Industrial Waste	Completed 2004
16.	L. Mnzava	Geothermometrical Model for Investigation of Geothermal Power Potential of Hot Springs in South Western Tanzania	Completed 2009
17.	F. Katagira	Ecological Factors That Influence The Performance Of <i>Neochetina</i> Weevils On Water Hyacinth In Lake Victoria Basin River Systems	Completed 2007
18.	Francois Dominicus Nzabuheraheza	Application of CW in the Treatment of Mixed Wastewaters	Completed 2007
19.	Consolata Nkonyani	Production of Chemical Feedstock from Sisal Waste	Completed 2010
20.	Nuru Mziray	Application of CW in the Treatment of Sisal Wastewaters	Completed 2010
21.	Juma Mohamed	Micro and Macro Modelling of Environmental Information Systems for Decision Making in Tanzania	Completed 2010
22.	Anesi Mahenge	Modelling of Nitrogen Transformation and Removal in Horizontal Surface Flow Constructed Mangroves Wetlands during Treatment of Domestic Sewage	Completed 2010
23.	Anderson E.L. Mlaki	Development of Environmentally Friendly Coal Based Hydrophobic Material as a Replacement of Mercury in Small Gold Mining in Tanzania	Completed 2011
24.	Bilha Eshton	Modelling of Greenhouse Gas Emissions from Biofuel Production Cycle	Completed 2012
25.	Hamisi Nchimbi	Assessment of the Variations in Productivity of Bark and Phylloclate Extracts of <i>Euphorbia Tirucalli</i> L. (African Milk Bush) as Sources of Liquid Biofuels	Completed 2013
26.	Happiness Mlay	Modifying Vegetable Oils for Rural Liquid Biofuel in Tanzania	Completed 2014
27.	Nyangi Chacha	Influence of steam explosion pre-treatment on fermentation of <i>Pinus patula</i> sawdust for bioethanol production	Completed 2014
28.	Ruth Lugwisha	A Critical Assessment of Challenges Associated with Enforcement of Industrial Water Pollution Regulatory Framework in Tanzania	Complete 2015
29.	Edwin S. Gomezulu	Assessing Quality of Water In Mining Areas in Tanzania: The Case of Villages Surrounding Buzwagi Mine	Completed 2016
30.	Neema Msuya	Bio-plastics Production from Sisal Waste	Completed 2018
31.	Tumurere Gilbert	The Management Of Forgotten Used Synthetic Human Hair In Rwanda: A Case Study Of Nyarugenge, Kicukiro, Gasabo, Huye And Musanze Districts	Ongoing
32.	Asumin Selemani	The Kinetics Of Low-Temperature Base Catalyzed Glycerolysis Of Free Fatty Acids	Ongoing

12. RESEARCH INTERESTS

- 12.1 Environmental Management
- 12.2 Chemicals Management
- 12.3 Transport Phenomena
- 12.4 Energy Management

	Reading	Writing	Speaking
English	Excellent	Excellent	Excellent
Kiswahili	Excellent	Excellent	Excellent

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Certification:

I, the undersigned, certify that to the best of my knowledge and belief, these data correctly describe me, my qualifications, and my experience.



Prof. JHY Katima

Date: 14th February 2020