

CURRICULUM VITAE

UNIVERSITY OF
NAIROBI
DEPARTMENT OF
CHEMISTRY
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PERSONAL DETAILS

Date of Birth	24 th MAY 1960
Nationality	KENYAN
Gender	MALE
Marital Status	Married with four children

PROFESSIONAL PROFILE

An organic chemistry associate professor with over 27 years teaching experience at university level. I have published twenty nine (29) papers in refereed journals, supervised two (2) Ph.D. and ten (10) M.Sc. students in chemistry to completion. Three (3) Ph.D and seven (7) MSc are ongoing.

I have examined forty (40) theses at both M.Sc. and Ph.D. level and thirty eight (38) at undergraduate level. I have attended and presented in conferences and workshops. I have written an organic chemistry book and a laboratory manual for second year undergraduate students.

CORE SKILLS

Mentorship	Team player
Adaptability	Continuous learner
Confidence	Leadership
communication	organization
Innovation	empowerment
Commitment	Proposal writing
Online management	Hospitality management

APPOINTMENT

2016-present
2009-2015

Council Member, Umma University
The Chairman, Department of Chemistry,
University of Nairobi

CAREER SUMMARY

2014-present

Associate Professor of chemistry,
Department of Chemistry, University of
Nairobi

Key responsibilities

Lecture undergraduate students
Guide students in practical
Participate in consultancy
Research participation

Conduct individual/collaborative research
Publish in peer reviewed journals
Disseminate research findings
Develop research proposal

2009-2015

The Chairman, Department of Chemistry,
University of Nairobi

Key responsibilities

Provide leadership to achieve the mission
of the department in the areas of teaching,
scholarship and service
Prepare departmental budget

Requisition requests
Monitor usage of funds

Provide leadership in the area of
departmental development and professional
growth
Conduct orientation of all new staff

Recommend faculty for promotion and
contract renewal
Assists students to adapt to university
academic life
Coordinate examination matters

Represent the department in the Senate

encourage faculty grant writing in
coordination with the DVC-RPE
Chair management and academic meetings
Ensure the completion of performance
evaluations of staff
Supervise review and approval of
departmental curricular ensuring programs
meet state and accreditation standards
Foster the recruitment and retention of
qualified staff
Establishment of strategic plan for the
department, college and University
Coordinate the teaching

2002-2014

Senior Lecturer, Department of Chemistry,
University of Nairobi

Key responsibilities

Lecture undergraduate and postgraduate students

Guide students in practical

Participate in consultancy

Research participation

Conduct individual/collaborative research

Publish in peer reviewed journals

Disseminate research findings

Develop research proposal

1998-2002

Lecturer, Department of Chemistry,
University of Nairobi

Key responsibilities

Lecture undergraduate and postgraduate students

Guide students in practical

Participate in consultancy

Research participation

Conduct individual/collaborative research

Publish in peer reviewed journals

Disseminate research findings

Develop research proposal

1995-1998

Assistant Lecturer, Department of
Chemistry, University of Nairobi

Key responsibilities

Lecture undergraduate students

Guide students in practical

Participate in consultancy

Research participation

Conduct individual/collaborative research

Publish in peer reviewed journals

Disseminate research findings

Develop research proposal

1991-1995

Tutorial Fellow, Department of Chemistry,
University of Nairobi

Key responsibilities

Lecture undergraduate students

Guide students in practical

Participate in consultancy

Research participation

Conduct individual/collaborative research

Publish in peer reviewed journals

Disseminate of research findings

Develop research proposal

1989-1991	Production Foreman, Bata Shoe Co. (K) Ltd
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Key responsibilities

Assistant to Manager Cutting shoe uppers Monitoring production	Dispatch of shoes to sewing department Requisition of goods from the store Payroll preparation
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EDUCATION/QUALIFICATIONS

Graduate School

1994-1998	University of Nairobi	Ph.D (Chemistry) <i>Solid-phase peptide syntheses of oxytocin, oxytocin analogues and interferon short chain with the amide side-chain functionality of asparagine protected with 1-tetralinyl group</i>
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1986-1989	University of Nairobi	MSc (Chemistry) <i>Application of tetralinylamines as carboxamide protecting groups in peptide synthesis</i>
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Undergraduate

1981-1985	University of Nairobi	BSc <i>Second class honors upper division</i>
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High School

1979-1980	Maseno School	KACE <i>Mathematics (D); Physics (D); Chemistry (C); GP (Subsidiary)</i>
1975-1978	Gendia Secondary School	EACE <i>Div I-17 Points</i>

Low School (Primary)

1971-1974	Kendu Muslim Primary School	CPE <i>20 points</i>
1968-1970	Highway Primary School	Classes 1-3

SUPERVISED PhD (Chemistry)

No	Name /Reg no	Title of thesis	Year graduated	Other supervisors
1.	Martin N. Mbugua, I80/7747/04	<i>Synthesis and binding studies of ring-constrained glucagon analogues</i>	2007	P. Gitu
2	Claire Nineza, I80/-/05	<i>Application of surface modified electrodes in the study of selected pharmaceutical drugs-anti-malarials, analgesics, antibiotics and herbal preparations</i>	2010	D. Orata

SUPERVISED MSc (Chemistry)

No	Name /Reg no	Title of thesis	Year graduated	Other supervisors
1	Claire Nineza, I56/7427/99	<i>Electrochemical features of polythiophene on clay modified electrodes</i>	2003	D. Orata
2.	Bernard Macharia, I56/77604/09	<i>Phytochemical investigation of the roots of Tephrosia villosa and aerial parts of Tephrosia Purpurea for antiplasmodial and larvicidal principles</i>	2012	S. Derese A. Yenesew L.Kerubo
3.	Daniel Buyinza, I56/64754/10	<i>Phytochemical investigation of Zanathoxylum Holstzianum for antimicrobial principles</i>	2012	S. Derese A. Yenesew L.Kerubo
4.	Everlyne Kasima, I56/72341/08	<i>Efficiency of municipal waste water treatment plants in Kenya: A case study of Mombasa Kipevu Treatment Works</i>	2014	D.K. Kariuki D.Abong'o
5.	Fawzia Adem, I56/69593/11	<i>Phytochemical Investigation of Aloe Turkanensis for Anti-plasmodial Principles</i>		A.Yenesew J.Wanjohi
6.	Sirama V. Okello I56/82141/12	<i>An ethnobotanical and bioactivity study of anthelmintic herbal remedies of Migori County, Kenya</i>	2014	J. Kokwaro B. Owuor

7.	Abdolahe M.Adawe, I56/67284/13	<i>Quality assessment of some selected water boreholes in Mogadishu, Somalia</i>	2015	J. Onyatta G. Wafula
8.	Linda W. Maina, I56/80419/12	<i>Rapid identification of edible oils manufactured in Kenya</i>	2016	D. K. Kariuki
9.	Onyango A.Ojwang, I56/70185/13	<i>An ethnobotanical, phytochemical and efficacy study of anti-ectoparasitic herbal remedies for livestock of Homa Bay County, Kenya</i>	2016	J. Kokwaro D.Onyango
10.	Andere C. Miruka, I56/69022/13	<i>The effects of Nairobi city development on the efficiency of Kariobangi wastewater treatment plant</i>	2016	D. K. Kariuki, G. Wafula J. Onyatta
11.	Birgen J. Cheptoo I56/67355/13	<i>Determination of the level of air pollutants in Athi River, Kenya</i>	2017	G. Wafula
12.	Maimuna Hussein I56/69350/13	<i>Assessment of water quality of selected boreholes in Mandera Town and its environs</i>	To graduate in 2018	G. Wafula

ONGOING Ph.D RESEARCH

No	Name /Reg no	Title of thesis	Status	Other supervisors
1	Rachel Njogu	<i>Synthesis of tetrahydrofurfural alcohol by hydrogenation in the presence of TiO₂/Ni</i>	Writing	D. K. Kariuki L. Njenga Ola F. Wendt
2.	Omar M.Hussein	<i>Synthesis of microporous clay derived silicate impregnated prosopis juliflora extracted lignin biomaterial nanocomposites for removal of heavy metals in water</i>	Lab work	N. Njomo
3.	Daniel Buyinza	<i>Screening selected Kenyan Zanthoxylum species for antimicrobials and structural modifications of the active compounds</i>	To defend	S. Derese, A.Yenesew A. Ndakala

ONGOING MSc RESEARCH

No	Name /Reg no	Title of thesis	Status	Other supervisors
1	Kingori David Muthura I56/68663/13	<i>Air Quality assessment within some parts of Nairobi and its environs</i>	Writing	David K. Kariuki G. Wafula
2.	Oyucho Bernard I56/68811/13	<i>Determination of methanol content in some selected beverages in informal settlements in Nairobi County</i>	Writing	J. Onyatta D. Abong'o
3.	Juspher O.Onyango I56/74728/14	<i>Atmospheric corrosion analysis of metallic coated and pre-painted steel roofing products in selected sites in Kenya</i>	Submitted thesis for examination	J. Onyatta P. Guto
4.	Tracey J. A.Shiundu I56/74380/14	<i>Assessment of the use of algae as a potential substrate in biogas production process. A case study of Ruai sewage treatment plant</i>	Lab work	J. Wanjohi G. Wafula
5.	David N. Moenga I56/80972/15	<i>Water Quality Assessment of some selected boreholes in Naivasha District, Nakuru County, Kenya</i>	Lab work	J. Onyatta H.Chepkwony

SUPERVISED BSc PROJECTS

No	Name /Reg no	Title of thesis	Year graduated	Other supervisors
1	Wanyama Mildred I20/1078/94	<i>Syntheses of 2-amino pyridinyl, 2-amino-6-methylpyridinyl and diphenylmethylsulphonamide derivatives</i>	1999	-
2.	Odongo A. Nancy I20/0618/94	<i>Application of 2-(2-aminoethyl) pyridinyl and 2-aminopyridinyl groups in the amide side chains protection of asparagine and glutamine</i>	1999	-
3.	Ochung' A. Atieno, I20/2788/93	<i>Side chain amide protection of asparagine and glutamine using benzhydryl group</i>	1998	-
4.	Rashid Yusra Soud, I20/2500/93	<i>Multi-step syntheses of sulfonamide derivatives (Sulfa drugs)</i>	1998	-

5.	Madadi O.Vincent, I20/2600/96	<i>The synthesis of Mailard reaction inhibitor (Drug) for eye infection</i>	2000	G. Kamau
6.	Kamau B.N. I20/2511/97	<i>Syntheses of sulphonamide derivatives of 1-tetralinyl and NCA-tetralinylleucinamide</i>	2001	-
7.	Muchina Fridah Wakiuri I20/2428/98	<i>Water analyses of Lake Simbi</i>	2002	-
8.	Mbuthia J. Njoroge I20/2618/96	<i>Syntheses of recinoleamides from castor oil and amines</i>	2002	-
9.	Mercy Anyika I20 /2439/99	<i>Analyses of Heavy metals in Lake Simbi</i>	2003	-
10.	Obwana I. Claire I20/1970/00	<i>Synthesis of N-benzhydrylrecinolamide</i>	2004	-
11.	Onyango B.O. I20/1277/00	<i>Synthesis of N-benzhydrylvernolamide</i>	2004	-
12.	Odhiambo O.R. I20/0196/01	<i>Nairobi Dam Water Analysis</i>	2005	-
13.	Mupeh J.J.M. I20/0019/01	<i>Methyl Ester of Vernonia Galamensis Oil</i>	2005	-
14.	Kitoma F.M. I20/2157/01	<i>Nile Biodiesel Synthesis from Perch Oil and Methanol</i>	2005	-
15.	Adolwa W. I20/0942/02	<i>Biodiesel Synthesis from Nile Perch Oil and Ethanol</i>	2006	-
16.	Onyango Apunda E. I20/0106/01	<i>Water Analysis of River Awach-Kibuon in Kendu Bay, Rachuonyo District</i>	2006	-
17.	Judith Ogolla I20/2786/04	<i>Extraction and characterization of vernonia galamensis oil from vernonia galamensis seeds</i>	2008	-
18.	Kyanui K. Daniel I08/8999/04	<i>Bohehole water analysis in some selected sites at state in Athi-River Division Syokimau Estate</i>	2008	-
19.	Gachucha P. Ndiritu I20/2822/04	<i>Solid-phase peptide synthesis of a glucagons analogue using F-moc synthetic protocol</i>	2008	-
20.	Judith Ogolla	<i>Extraction and characterization of vernonia</i>	2008	-

	I20/2786/04	<i>galamensis oil from vernonia galamensis seeds</i>		
21.	Mutinda J. Wambua, I08/2267/06	<i>Determination of fluoride and defluoridation of bohehole water in some selected sites in Syokimau Division</i>	2010	-
22.	Wekulo Chrispinus, I08/0055/03	<i>Water analysis of some selected boheholes in Matungu Division, Butere-Mumias District</i>	2008	-
23.	Rono S. Jepchirchir I08/2274/06	<i>Formulation of shoe polish</i>	2010	-
24.	Moenga D.Nyamweya I08/89216/05	<i>Transesterification of Nile perch oil using propan-1-ol</i>	2009	-
25.	Mosite T. Dennis I08/21802/07	<i>Determination of fluoride levels and other physico-chemical parameters in some borehole waters in Kajiado North District</i>	2011	-
26.	Ondiek Peter Ganga I20/2421/07	<i>Manufacture of low cost disinfectants</i>	2011	-
27.	Kutsushi D. Morland I08/21325/07	<i>Fluoride levels and defluoridation method in selected boreholes in Athi River Division: Other selected water parameters</i>	2011	-
28.	Njeru Elizabeth W. I20/1509/10	<i>Analysis of water in selected boreholes in Machakos County</i>	2014	-
29.	Mulwa Esther Mutende I20/1512/10	<i>Analysis of some heavy metals and COD along Nairobi River</i>	2014	-
30.	Odhiambo John Otieno I08/1062/10	<i>Assessment of effluents from selected industrial sites in industrial area in Nairobi</i>	2014	J. Onyatta
31.	Muchiri Agnes Wambui I08/36851/10	<i>Assessment of water quality of different sources of drinking water in Naivasha Town</i>	2014	V. Madadi
32.	Macharia Muthoni Teresa I20/1835/12	<i>Water Quality Assessment of Some Boreholes in Syokimau, Machakos County</i>	2014	-
33.	Ibrahim Hassan	<i>Water Quality Assessment of Some Boreholes in</i>	2016	-

	Dirie I20/1712/11	<i>Namanga, Kajiado County</i>		
34.	Njeru Seth Murimi I20/1883/13	<i>Sulphur dioxide assessment at Chiromo Drive and Chiromo Hall, Nairobi</i>	2016	G. Wafula
35.	Ramadhan Adam Kasakwa I20/1844/13	<i>Sulphur dioxide assessment at University of Nairobi tunnel and Main CamHall 13, Nairobi</i>	2016	G. Wafula
36.	Amina Mohamed Mire I08/53724/13	<i>Assessment of murram (laterite) soil in removal of fluoride ions in water</i>	2016	J. Onyatta
37.	Antony Kipkorir I08/1231/13	<i>Assessment of efficiency of water hyacinth biomass to adsorb fluoride from aqueous solution</i>	2016	J. Onyatta
38.	Mutiso Jackline Mueni I08/1229/13	<i>Corrosion rates of some selected iron nails from different companies in Kenya</i>	2016	J. Onyatta
39.	Kimotho Josephine N. I64/1548/14	<i>Extraction of citric acid from Kei apples (Dovyallis caffra)</i>	2018	J. Onyatta
40.	Mulonga Yvette Ngesa 120/2202/14	<i>Assessment of spring water for domestic consumption</i>	2018	J. Onyatta
41.	Ojango Laviner Ijai 120/2071/14	<i>Assessment of River Bukhang'o for domestic consumption</i>	2018	J. Onyatta
42.	Irene Vaati Mulei 120/2017/14	<i>Water quality assessment of River Tana (Nunguni), Makueni County, Kenya</i>	2018	J. Onyatta
43.	Nabwire Elizabeth I64/5356/14	<i>Removal of heavy metals from water using water hyacinth</i>	2018	J. Onyatta
44.	Ogotu Florence Akinyi I20/2095/14	<i>Determinaton of the purity of a dosing reagent used in a geothermal power plant</i>	2018	J. Onyatta
45.	I64/5357/14	<i>Accelerated corrosion of iron nails from various outlets</i>	2018	J. Onyatta

REFEREED JOURNAL ARTICLES

No	Title of publication	Journal	Year published	Other authors
1	<i>Synthesis of 1-aminotetralin and its derivatives by reductive amination of their corresponding 1-tetralones</i>	<i>Int J. BioChemPhys. 2 no. 1&2, 55-77</i>	1993	B.M. Bhatt, P.M. Gitu
2.	<i>Application of tetralinyls as carboxamide protecting groups in peptide synthesis</i>	<i>Bull. Chem. Soc. Ethiop. 12, 35-43</i>	1998	B.M. Bhatt P.M. Gitu
3.	<i>Application of tetralinyl group in solid-phase peptide synthesis</i>	<i>Int. J. of BioChemPhysics, 6,7 Nos 1&2, 7-10</i>	1998	P.M. Gitu V.O. Ogutu B.M. Bhatt
4.	<i>SPPS of isotocin with amide of asparagine protected with 1-tetralinyl. TFMSA deprotection, cleavage and air oxidation of mercapto groups to disulphide</i>	<i>Bull. Chem. Soc. Ethiop. 15(2), 143-149</i>	2001	B.M. Bhatt P.M. Gitu
5.	<i>Protection of amide side-chain of asparagine with the 1-tetralinyl group in the solid-phase peptide synthesis of lysine-vasopressin</i>	<i>S. Afr. J. Chem., 55, 87-96.</i>	2002	B.M. Bhatt P.M. Gitu
6.	<i>1-Tetralinyl group for asparagine side-chain protection, and application to Boc solid-phase peptide synthesis</i>	<i>J.of the Kenya Chem.Soc.2, 14-18.</i>	2004	B.M. Bhatt P.M. Gitu
7.	<i>Synthesis of Vernolamides from Vernonia galamensis oil under varied conditions and their antimicrobial activities</i>	<i>J.of the Kenya Chem.Soc. 3, 1-8</i>	2006	M.N. Mbugua B.M. Bhatt P.M Gitu
8.	<i>Conversion of Vernonia galamensis oil to pyridino-vernolamides and their antimicrobial activities</i>	<i>Bull. Chem. Soc. Ethiop. 21, 103-110</i>	2007	M.N. Mbugua B.M. Bhatt P.M. Gitu
9.	<i>Environmental Effects of Selected Chemical and Physical Geothermometers at Olkaria Geothermal Power Plant</i>	<i>Int. J. of Sustainable Development 3, p.14.</i>	2010	D.M. Kituyi A.M. Salim A. Onditi
10.	<i>Determination of Macronutrients and micronutrients in Soil Samples from Around Lake Ol-Bolossat</i>	<i>Int.J. of Biol.Sci., 2(8), 140-148</i>	2010	P.M. Mbugua A.M. Salim A.O. Onditi

11.	<i>4'-Prenyloxyderrone from the stem bark of millettia oblate ssp. teitensis and the antiplasmodial activities of isoflavones from some millettia species</i>	<i>Phytochemistry Letters</i> , 6 (2), 69-72	2014	S. Derese L. Barasa H.Akala M. Heydenreich A. Yenesew
12.	<i>1-Tetralinyl as carboxamide protecting group for asparagines and application to N-alpha-t-butylloxycarbonyl (Boc) solid-phase peptide synthesis of oxytocin</i>	<i>J.of Chem. and materials research</i> , 6 (2), 1-11	2014	P. Gitu B. Bhatt M. Njogu A. Salim D. Orata
13.	<i>Derivatized electrodes in the electroanalysis of pyrimethamine and/or 2-sulfanilamido-3-methoxy pyrazine (metakelfin) and lumefantrine / artemether (Coatem)</i>	<i>J. of Chem.and chemical eng.</i> , 8, 215-225	2014	D. Orata C.Nineza
14.	<i>Solid-Phase Peptide Synthesis of Arginine-vasopressin With Amide Side chain of Asparagine Protected With 1-Tetralinyl Group</i>	<i>J.of Chem. and materials research</i> , 6 (4), 60-65	2014	P. Gitu B.Bhatt, M.Njogu A. Salim D. Orata
15.	<i>Surface modified electrodes used in cyclic voltammetric profiling of quinine, as antimalarial drug</i>	<i>IOSR Journal of Applied Chemistry</i> , 7(5, ver. II), 81-89	2014	D. Orata C. Nineza D. Mbui M. Mukabi
16.	<i>Electrochemical characterization of amoxycillin, a broad spectrum antibiotic on a bentonite host matrix, using cyclic voltammetry</i>	<i>IOSR Journal of Applied Chemistry</i> , 7(5, ver. III), 50-58	2014	D. Orata, C. Nineza M.Mukabi
17.	<i>Surface modified electrode used in the electro-analysis of N-acetyl p-aminophenol-A pharmaceutical drug</i>	<i>IOSR Journal of Applied Chemistry</i> , 7(5, ver. II), 90-99	2014	D. Orata C.Nineza M.Mukabi D. Mbui
18.	<i>Eectroanaysisof unconventional (herbal) drugs using surface modified electrodes in conjunction with cyclic votammetry</i>	<i>IOSR Journal of Applied Chemistry</i> , 7(5, ver. II), 56-62	2014	D. Orata C. Nineza
19.	<i>Polyaniline and polythiophene modified electrodes in energy storage units with hydrocarbon</i>	<i>IOSR Journal of Applied</i>	2014	D. Orata H.Njenga

	<i>gel/bentonite/sodium chloride as electrolyte gel</i>	<i>Chemistry, 7(5, ver. II), 63-80</i>		M.Mukabi D. Mbui
20.	<i>Electro-characterization of polypyrrole electrosynthesized on a montomorillonite host-matrix, in aqueous media containing sulphuric acid as supporting electroyte</i>	<i>IOSR Journal of Applied Chemistry, 7(5, ver. III), 59-72</i>	2014	D. Orata M. Mukabi H. Njenga
21.	<i>Sodium thiosulphate, a novel electrocatalyst in the electrosynthesis of electronically conducting polymer-polythiophene</i>	<i>IOSR Journal of Applied Chemistry, 7(5, ver. III), 73-85</i>	2014	D. Orata H. Njenga M. Mukabi
22.	<i>Determination of selected micro and macronutrients in sugarcane growing soils in Kakamega North District, Kenya</i>	<i>IOSR Journal of Applied Chemistry, 7(7, ver. I), 34-41.</i>	2014	P. Akenga A. Salim A. Onditi
23.	<i>Bioethanol production from waste crops and crop residues</i>	<i>IOSR Journal of Applied Chemistry, 7(7, ver. I), 42-47</i>	2014	Riungu A.M. Salim J. Njenga W. Waudo
24.	<i>6a-Hydroxy-α-toxicarol and (+)-tephrodin with antiplasmodial activities from tephrosia species</i>	<i>Phytochemistry Letters, 10, 179-183</i>	2014	L. Mutisya B. Macharia M.Heydenreich A. Koch H. M. Akala S. Derese L. K. Omosa E. Kamau A. Yenesew
25.	<i>In-Vitro anthelmintic Bioactivity study of Eclipta prostrata L. (whole plant) using adult Haemonchus contortus worms: A case study of Migori County, Kenya</i>	<i>IOSR Journal of pharmacy and Biological Sciences, 9 (6, ver. IV), 45-53</i>	2014	Sirama V. Kokwaro J. Owuor B.
26.	<i>Determination of heavy metals and nutrients in Rivers Naka and Irigu, Chuka, (Kenya) usind atomic absorption spectrometry and UV/Visible spectrometry</i>	<i>IOSR Journal of Applied Chemistry, 7(11, ver. I), 82-88</i>	2014	Mutembei J.K. Salim A.M. Onditi O.A. Waudo W.
27.	<i>In-Vitro Anthelmintic activity of vernonia amygdalina</i>	<i>International</i>	2014	Sirama V.

	<i>Del. (asteraceae) roots using adult Haemonchus contortus worms</i>	<i>Journal of pharmacological Research</i> , 5 no. 1, 1-7		Kokwaro J. Owuor B. Kodhiambo M.
28.	<i>Assessment of selected parameters for industrial effluents from some selected industrial sites in Nairobi, Kenya</i>	<i>Universal Journal of Chemistry</i> , 4(2), 65-68.	2016	Odhiambo J. Onyatta J.
29.	<i>Isolation and molecular characterization of chrome-resistant bacteria from chrome-contaminated tannery waste from disposal sites in Kenya</i>	<i>IOSR Journal of Applied Chemistry</i> , 9(10, ver. II), 1-5.	2016	Nathan L. K. Ali M.S. Nyambati V. Onyuka A.S.
30	<i>Atmospheric corrosion studies in Kenya. Past, present and future</i>	<i>African Corrosion Journal</i> , 2(1), 25-32	2016	Onyatta, J. O Ooko J.O
31.	<i>Assessment of sulphur dioxide levels in selected sites in Athi River, Kenya</i>	<i>Int. J. of Trend in Scientific Research and Development</i> , 1(5), 416-422	2017	Birgen J. WafulaG. Onyatta J.
32.	<i>Assessment of levels of heavy metals in paints from interior walls and indoor dust from residential houses in Nairobi City County, Kenya</i>	<i>Chemical Science Int. Journal</i> , 21(1), 1-7	2017	Ogillo J.K. Onditi A.O. Salim A.M.
33.	<i>Use of accelerated tests to estimate corrosion rates of roofing sheets</i>	<i>International Journal of Sciences</i> , 37(3), 1-8	2018	Ooko J.O. Onyatta J.O. Guto P.M.

BOOK

	Title	Publisher	Year
1.	<i>Organic Chemistry 2</i>	University of Nairobi	2004

PRACTICAL MANUAL

	Title	Publisher	Year
1.	<i>Organic Chemistry 2</i>	University of Nairobi	2011

OTHER CONTRIBUTIONS TO LITERATURE

No	Thesis type	Title of thesis	Year graduated	supervisors
1	MSc	<i>Application of tetralinylamines as carboxamide protecting groups in peptide synthesis</i>	1989	P.Gitu B. Bhatt
2.	Ph.D	<i>Solid-phase peptide syntheses of oxytocin, oxytocin analogs and interferon short chain with the amide side-chain functionality of asparagine protected with 1-tetralinyl group</i>	1998	P.Gitu B. Bhatt

PAPERS PRESENTED IN CONFERENCES, SEMINARS, WORKSHOPS AND OTHER GATHERINGS

	Title of paper presented	Conference/workshop/se minar title	Venue	Date
1	Cleavage studies of carboxamide protected derivatives of asparagine and glutamine in TFA/anisole/BTFA	<i>Fifth International Chemistry Conference</i>	Gaborone Botswana	1992
2	Synthesis of 1-aminotetralin and its derivatives by reductive amination of their corresponding 1-tetralones	<i>Inaugural Conference of the Kenya Chemical Society</i>	Nairobi Kenya	1993
3	Application of carboxamide protected derivatives in peptide synthesis	<i>First NAPRECA-National Symposium on Natural Products</i>	Nairobi Kenya	1992
4	Tetralinylamine resin and amide support in the solid-phase peptide synthesis	<i>Kenya Chemical Society Conference</i>	Eldoret Kenya	1996
5	SPPS of isotocin with amide of asparagine protected with 1-tetralinyl	Kenya Chemical Society conference	Juja Kenya	1999
6	Use of aromatic polyamides and polysulphonamides in water purification	Water Treatment Technologies Conference	Nairobi Kenya	2005

7	Synthesis of biodiesel from Nile perch oil and methanol	AGM of The Kenya Chemical Society	Kenyatta University, Nairobi Kenya	30 th August 2008
8	Use of 1-tetralinyl group as asparagines carboxamide protecting and its use in the solid-phase peptide synthesis of oxytocin	The Kenya Chemical Society	University of Nairobi Kenya	25 th April 2009
9	Determination of fluoride levels and other physic-chemical parameters in some borehole waters in Kajiado North District	Kenya Chemical Society	University of Nairobi Kenya	27 th August 2011
10	In house forum on CV writing	Departmental seminar series	University of Nairobi Kenya	19 th February 2015
11	In house forum on how to write a good CV	Departmental seminar series	University of Nairobi Kenya	9 th July 2015
12	In house forum on mentorship and other skills-Business tips	Departmental seminar series	University of Nairobi Kenya	12 th February 2016
13	Strategic Partnerships for Higher Education and Innovation Reform	Nottingham-Kenya collaboration	University of Nottingham United Kingdom	11 th April 2016
14	Strategic Partnerships for Higher Education and Innovation Reform	Nottingham-Kenya collaboration	Dar es Salaam Tanzania	21-22 nd August 2017

CONFERENCES AND WORKSHOPS ATTENDED

	Conference/workshop/seminar title	Venue	Date
1	International Forum for Young Scientists	Budapest, Hungary	June 1999
2	Nairobi River Basin Project Stakeholders Seminar	Kivi Milimani Hotel, Nairobi, Kenya	11 th September 2009
3	Africa's Water Quality: A Chemical Science Perspective workshop	Chiromo Campus, University of Nairobi, Nairobi	26 th March 2010
4	ISP Reference Group Workshop	Chiromo Conference Centre, Chiromo Campus, Nairobi	27 th September 2010
5	Recent Developments in organic chemistry industry, Research and teaching in Kenya Symposium	Chiromo Campus, University of Nairobi, Nairobi	23/07/ 2010
6	IRD Regional Workshop on gemstones	Chiromo Campus, University of Nairobi, Nairobi	19 – 24 th July 2010
7	Inception Workshop for the sub-regional UNEP/GEF project: Supporting the global monitoring plan on Pops in the eastern and southern African region	United Kenya Club, Nairobi, Kenya	27 th January 2010
8	CBPS Strategic Plan 2008-2013 workshop Revision	Gracia Hotel and Resorts Conference Centre, Nairobi, Kenya	16 th October 2010
9	1 st International Year of Chemistry workshop	CCU, University of Nairobi, Nairobi	25 th March 2011
10	National stakeholders workshop for sharing the outcome of UNEP-GEF project on strengthening capacity of developing countries to analyze Pops in core media	United Kenya Club, Nairobi, Kenya	27 th July 2011
11	Integrating HIV and AIDS information in the teaching curricula Workshop	Kenya Meteorological Department, Nairobi, Kenya	October, 2010
12	Chemical safety and security conference	Tarnow, Poland	27 – 28 th October 2011
13	2 nd International Year of Chemistry workshop	CCU, University of Nairobi, Nairobi	15-17 th February 2012
14	Chemical Engineering survey: How to start	Taipei, Taiwan	19 – 25 th May

	Chemical Engineering course		2012
15	Sensitization workshop for Departmental Chairpersons, College Registrars, on intellectual property rights	CCU, University of Nairobi, Nairobi	17 th July 2013
16	Role of the University in the implementation of the Constitution, 2010- University Council, Management and Senate sensitization programme	CCU, University of Nairobi, Nairobi	3 rd September 2013
17	Public Lectures on staff sensitization on the role of UoN in the implementation of the Constitution, 2010 (Objectives and overview of the enactment of the Constitution, Land, environment and natural resources)	LLT, Chiromo Campus, University of Nairobi, Nairobi	18 th September 2013
18	Public Lectures on staff sensitization on the role of UoN in the implementation of the Constitution, 2010 (Leadership and integrity, Devolution and Public Finance)	MH1, Chiromo Campus, Nairobi	23 rd October 2013
19	Public Lectures on staff sensitization on the role of UoN in the implementation of the Constitution, 2010	Taifa Hall, University of Nairobi, Nairobi	8 th November 2013
20	Speciation Analysis of Selected Trace Elements in Selected Medicinal Plants from Nyamira County	SPS Boardroom, Chiromo Campus, University of Nairobi	29 th November 2013
21	Sensitization workshop on postgraduate matters for Deans/Directors/Chairmen of Departments and postgraduate chairmen	CCU, University of Nairobi, Nairobi	10 th December 2013
22	Phytochemical investigation of Xanthoxylum holistzzianum for plasmodial, larvicidal and antinociceptive principles	Department of Chemistry, Chiromo Campus, University of Nairobi	14 th January 2014
23	Adsorption of selected pesticide residues by selected sediments and soils from Kenya: Adsorption/Desorption Properties and Related Thermodynamic Data	SPS Boardroom, Chiromo Campus, University of Nairobi	13 th February 2013
24	Photocatalytic degradation of wastewater on TiO ₂ coated surfaces: A case study of tea factories in Kenya	SPS Boardroom, Chiromo Campus, University of Nairobi	13 th February 2013
25	Performance Contract Sensitization workshop	SPS Boardroom, Chiromo Campus, University of Nairobi,	18 th February 2014

		Nairobi	
26	New Electrochemical Sensor for Selected Heavy Metal Pollutants In Drinking water and Wastewaters	SPS Boardroom, Chiromo Campus, University of Nairobi	20 th February 2014
27	Biosorption of Heavy Metal ions from Aqueous Solutions Using Macrophytes (<i>Vossia cuspidata</i> and <i>Cyperus papyrus</i>)	SPS Boardroom, Chiromo Campus, University of Nairobi	20 th February 2014
28	Kenya Chemical Society Workshop and Annual general Meeting	SPS Boardroom, Chiromo Campus, University of Nairobi	22 nd February 2014
29	The National Nuclear Energy Stakeholders Forum	Laico Regency Hotel, Nairobi	24-25 th February 2014
30	Stripping Voltammetric Pyrolytic Graphite Polyaniline Sensor For Simultaneous Determination Of Lead And Cadmium	SPS Boardroom, Chiromo Campus, University Of Nairobi	7 th March 2014
31	The Pan African Chemistry Network-Procter & Gamble Workshop on P& G presentation and possible collaboration	Dept of Chemistry, Chiromo Campus, University of Nairobi	1 st April 2014
32	4 th Year project presentation	Rm 119, Dept of Chemistry, Chiromo Campus, University of Nairobi, Nairobi, Kenya	4 th April 2014
33	The KEMFRI-Dept of Chemistry Workshop on possibility of having collaborative research	Rm 119, Dept of Chemistry, Chiromo Campus, University of Nairobi, Nairobi, Nairobi, Kenya	10 th April 2014
34	University funding: Creating capacity and synergies for higher performance	The Great Rift Valley Lodge, Naivasha, Kenya	29-31 st May 2014
35	Regulatory harmonization, hygiene and sustainability (Royal Society of Chemistry and Procter & Gamble)	MH1, Chiromo Campus, University of Nairobi, Nairobi, Kenya	4-5 th November 2014
36	Development and Characterization Of Conductive Polymers And Their Application In Energy Storage Devices	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	8 th April 2014
37	Electrocatalytic Decomposition Of (3ar,7as)-2-[(Trichloromethyl) Sulfanyl]-3a,4,7,7a-Tetrahydro-1H-Isoindole-1,3(2H)-Dione (Captan) And 1,1,1-Trichloro-2,2-Bis (P-Methoxy Phenyl) Ethane (Methoxychlor) Pesticides Residue Using	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	15 th April 2014

	Cyanocobalamin		
38	Phytochemical Investigation of Aloe Turkanensis For Anticancer Activity	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	25 th April 2014
39	Computational Modeling And Visualization Of Biomolecules	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	27 th May 2014
40	Physiochemical Analysis and Assessment of The Speciation Of Heavy Metals In Nairobi River Using Join Expert Speciation System (Jess) Program	Department Of Chemistry, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	29 th May 2014
41	Phytochemical Investigation of Three Leguminosae Plants For Cancer Chemoprevention	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	30 th June 2014
42	Adsorption Of Lead (Ii) And Iron (Iii) Ions From Aqueous Solutions Using Kenyan Zeolite, Bentonite Clay And Kisii Soapstone	The SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	30 th June 2014
43	Phytochemical Investigation Of Some Fabaceae And Rutanaceae Plants For Anti-inflammatory Principles	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	10 th July 2014
44	Using Modified Titanium (Iv) Oxide Photocatalysts To Develop Purification System For Use In The Improvement Of Quality Of Drinking Water	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	24 th July 2014
45	Phytochemical Investigation of Four Asphodelaceae Plants For Anti-Plasmodial Principles	Department Of Chemistry, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	4 th August 2014
46	Comparative Adsorption Of Methylene Blue And Congo Red Dyes Onto Coconut Husks, Mangrove And Polylactide Blended Films	Department Of Chemistry, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	1 st September 2014
47	Effects Of Long Term Use Of Inorganic Fertilizers On Accumulation Of Selected Heavy Metals And Primary Macronutrients In Maize Farm Soils In Trans-Nzoia	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	25 th September 2014
48	Phytochemical Investigation Of Three Lannea Species For Hepatoprotective Principles	Department Of Chemistry, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	27 th October 2014

49	Mapping Spatial And Temporal Variations Of Phosphate Sulphate,Nitrate And Escherichia Coli (E.Coli) Pollution In Ngong River	Department Of Chemistry, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	24 th November 2014
50	Phytochemical Investigation Of Turraea Robusta, Turraea Nilotica And Ekebergia Capensis For Antiplasmodial And Cytotoxic Compound	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	11 th November 2014
51	Phytochemistry and Bioactivity Investigations Of Three Kenyan Croton Species	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	11 th November 2014
52	Fluoride Profiling In Some Selected Water Boreholes In Mogashishu, Somalia	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	10 th December 2014
53	In The Selective Hydrogenation Of Aminobenzophenone	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	21 st January 2015
54	Adsorption Of Heavy Metals From Aqueous Solutions Using Mangroves From Kenya	SPS Boardroom, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	30 th January 2015
55	The Effects Of Nairobi City Development On The Efficiency Of Kariobangi Wastewater Treatment Plant	Department Of Chemistry, Chiromo Campus, University Of Nairobi, Nairobi, Kenya	5 th February 2015
56	UNESCO/UNIT WIN Chairs Sensitization Forum	8.4.4 Building, Main Campus, University Of Nairobi, Nairobi, Kenya	22 nd April 2015
57	Countering Terrorism: In Search Of A Grand African Strategy	8.4.4 Building, Main Campus, University Of Nairobi, Nairobi, Kenya	7 th May 2015
58	Senate Retreat on Reviewing UoN Strategies On Generation Of New Income	Great Rift Valley Lodge and Gold Resort, Naivasha, Kenya	30 th July to 1 st August 2015
59	Factors Affecting Atmospheric Corrosion and Use of Local Data	SPS Boardroom, Chiromo Campus, University of Nairobi, Nairobi, Kenya	27 th October 2015
60	Master of Science Research Proposal Presentations	SPS Boardroom, Chiromo Campus, University of Nairobi, Nairobi, Kenya	19 th August 2016
61	4 th Year Bachelor of Science Project Presentations	Rm. 119, Chiromo Campus, University of Nairobi, Nairobi,	17 th November 2016

		Kenya	
62	Pan Africa Chemistry Network Congress 2016- Sustainable Water Resources for Africa	MH1, Chiromo Campus, University of Nairobi, Nairobi, Kenya	30 th November 2016-2 nd December 2016
63	SPHEIR-Kenya Nottingham Partnership workshop	New Africa Hotel, Dar es Salaam, Tanzania	21-22 nd August 2017

MEMBERSHIP OF LEARNED PROFESSIONAL BODIES

1. Kenya Chemical Society
2. Treasurer of the Kenya Chemical Society, Nairobi Chapter, 2006-2012

MSc THESIS EXAMINATION

No	Name /Reg no	Title of thesis	Year examined	University
1	Martin Njogu Mbugua, I56/7045/93	<i>Extraction of vernonia oil and its aminolysis to vernolamides</i>	October 2001	University of Nairobi
2.	Oyamo George Osanjo, H56/7400/99	<i>Identification by saturation mutagenesis of a single residue involved in the alpha-galactosidase AgaB regioselectivity</i>	April 2002	University of Nairobi
3.	Salome Guchu, I56/7132/99	<i>Anti-oxidant activity of Pentacyclic triterpenes from Rawsonia lucida and isoflavonoids from Erythrina Burtii</i>	August 2002	University of Nairobi
4	Robert Mwangi, I56/7505/00	<i>Evaluation of Leishmania major transmission by phlebotomus duboscqi in Balb/c mice during sodium stibogluconate treatment</i>	October 2003	University of Nairobi
5	Andile Bulelani Mzinyati	<i>Thermal Transformations of Trialkylboranes and Hydroboration Kinetics of Functionalised Alkenes</i>	June 2003	University of Kwazulu-Natal
6	Ms. Nontokoza Xaba	<i>Kinetic and Mechanistic Studies of the Hydroboration Reactions of</i>	July 2004	University of Kwazulu-

		<i>Selected Organic Compounds with HBBBr₂.Me₂S and H₂BBr.Me₂S Complexes. A Comparison of GC and ¹¹B NMR Spectroscopy Techniques</i>		Natal
7	Ocholla John Bwire	<i>Bioprospecting for insecticidal scorpion venoms and identification of bioactive toxins</i>	July 2005	Jomo Kenyatta University of Agriculture and Technology
8	Kiplagat John Tuwei I56/7474/2003	<i>Larvicidal and anti-plasmodial compounds from Derris trifoliata, Lonchocarpus eriocalyx and Erithrina sacleuxii</i>	31 st July 2006	University of Nairobi
9	Nyaga Wilson Gatimu I56/7155/2003	<i>Photocatalytic oxidation of phenol using titanium dioxide thin film prepared by electrophoretic deposition</i>	27 th June 2007	University of Nairobi
10	Martin Wamalwa Wetungu SM11/1278/2004	<i>Antimicrobial Phenylpropanoid Esters and Macrolides from the leaves of Tarconanthus Camphoratus</i>	15 th October 2007	Egerton University
12	Gladys Nyamoita Onsongo I56/9060/00	<i>Anti-larval compounds from vitex schliebenii and vitex payos</i>	24 th January 2008	Kenyatta University
13	Karenga Samwel Mukiha SM11/0691/02	<i>The anti-larval compounds and blend(s) from Melia volkensii against Anopheles Gambie .s.s</i>	16 th April 2009	Egerton University
14	Esther W. Kinuthia SM11/1472/05	<i>Gargenia volkensii and meyna tetraphylla using various solvents followed by screening against Bacillus subtilis, staphylococcus and Escheririchia coli</i>	24 th July, 2009	Egerton University
15	Grace Wambui Ngaruiya I56/8041/2006	<i>Ecological assessment of the golden ramped elephant shrew in the Northern Coastal forest of Kenya</i>	3 rd August 2009	University of Nairobi
16	Kenneth Mwangi Njoroge I56/8665/2005	<i>Bee diversity and floral resource utilization along a distance gradient</i>	28 th October 2009	University of Nairobi

		<i>from the Arabuko Sokoke Forest</i>		
17	Kenneth Mwangi Njoroge I56/8665/05	<i>Bee diversity and floral resource utilization along a distance gradient from the Arabuko Sokoke Forest</i>	28 th October, 2009	University of Nairobi
18	Karenga Samwel Mukiha SM11/0691/02	<i>Towards the synthesis of a thiourea derivative as a potential non-nucleoside Reverse Transcriptase Inhibitor</i>	13 th October, 2010	Egerton University
19	Rotich Zaccheus Kipkorir SC/PGC/011/06	<i>Towards the synthesis of a thiourea derivative as a potential non nucleoside reverse transcriptase inhibitor(MPhil)</i>	20 th September, 2010	Moi University
20	Julius Mwenda William I 56/10088/08	<i>Selective monobenzylation of 1,2-diols in water</i>	16 th February, 2011	Kenyatta University
21	Josephine Ngunjiri I56/72239/08	<i>Soil factors influencing the prevalence of tunga penetrans in Gaichanjiru Location of Murang'a County, Kenya</i>	12 th July 2011	University of Nairobi
22	Clara Chepkirui SM11/2752/10	<i>Antifungal secondary metabolites from monanthotaxis littonsii with activity acting mycotoxigenic fungi from maize</i>	February, 2013	Egerton University
23	Cynthia Mudalungu SM11/2789/10	<i>Mosquito larvicidal compounds from the plant fagaropsis angolensis against anopheles gambiae</i>	February, 2013	Egerton University
24	Peter Fundi I56/76604/09	<i>Pre-translocation assessment of diet suitability and potential anthropogenic threats to the male mountain Bongos in Mount Kenya Forest</i>	29 th April 2013	University of Nairobi
25	Everlyne Kasima, I56/72341/08	<i>Efficiency of municipal waste water treatment plants in Kenya: A case study of Mombasa Kipevu Treatment Works</i>	December, 2013	University of Nairobi
26	Aggrey Akimanya, SM11/2304/08	<i>The phytochemical investigations on the surface exudates of Microglossa Pyrifolia</i>	February, 2014	Egerton University

27	Japhet Omollo Ombitto, SM11/3065/11	<i>Larvicidal compounds from the plant Zanthoxylum gillettii against malaria vector anopheles gambiae</i>	October, 2014	Egerton University
28	Abdolahi Mohamed Adawe, I56/67284/13	<i>Quality Assessment of Some Selected Water Boreholes in Mogadishu, Somalia</i>	August, 2015	University of Nairobi
29	Renee Rosebella Munayi, I56/67098/13	<i>Phytochemical Investigation of Bridelia Micrantha and Tabernaemontana Ventricosa for Cytotoxic Principals against Drug Sensitive Cancer Cell Lines</i>	November, 2015	University of Nairobi
30	Hinga Mbugua, I56/80889/12	<i>The effect of septic tank sewage disposal systems on borehole water quality in Ongata Rongai, Kajiado County, Kenya</i>	January, 2016	University of Nairobi
31	Alfred Ojwang Onyango, I56/70185/13	<i>An Ethnobotanical, Phytochemical, Toxicity and Efficacy Study of Anti-Blue Tick (Boophilus decoloratus) Herbal Remedies for Cattle of Suba sub-County, Kenya</i>	March, 2016	University of Nairobi
32	Christine Tabitha Nyabayo, SM1133/12	<i>Isolation of Secondary metabolites from Lippia kituiensis, Salvia nilotica and Pittosporum viridiflorum active against Rhipicephalus appendiculatus</i>	March, 2016	Egerton University
33	Kevin Kipsang Sambai I56/7660481073/12	<i>Effect of temperature on interactions of lepidopteran stem borer pests and their associated larval parasitoids</i>	6 th April 2016	University of Nairobi
34	Omondi James Oyim, I56/79108/12	<i>Modeling and synthesis of antiplasmodial naphthaquinone scaffolds from natural products of Kenya</i>	August, 2016	University of Nairobi
35	Ondiere Vane Bonareri, I56/67533/13	<i>Assessment of pesticides and heavy metals contamination in Lake Elementaita drainage basin</i>	September, 2016	University of Nairobi
36	Jael Cheptoo Birgen, I56/67355/13	<i>Assessment of levels of selected air pollutants in Athi River, Kenya</i>	November, 2016	University of Nairobi

37	Yegon Kipkurui Phelemon, SM11/3322/12	<i>Isolation of antifungal secondary metabolites from Phytolacca dedecandra, Basella alba and Lippia javanica against maize fungal pathogens</i>	November, 2016	Egerton University
38	Regina Chepkorir, SM11/3709/13	<i>Investigation of secondary metabolites from Withania somnifera and Hagenia abyssinica for the control of maize and beans pathogens</i>	January, 2017	Egerton University
39	Shigwenya Madivoli Edwin, SC332-2963/14	<i>Development of cellulose water filters from Eichhornia crassipes and Cyperus papyrus</i>	March, 2017	Jomo Kenyatta University of Agriculture and Technology
40	Nyamboki Divinah Kwamboka, SM11/23506/14	<i>Isolation and characterization of antibacterial secondary metabolites from Tagia insuavis and its endophytic fungi</i>	June, 2017	Egerton University
41	Samuel Gachuhi Njoroge, I56/67848/13	<i>Synthesis and evaluation of analogues of a benzoquinone metabolite from the endophytic fungi Xylaria for antimicrobial activity</i>	June, 2017	University of Nairobi
42.	Gacheru Martin Mugo	<i>Phytochemical investigation of Xanthoxylum paracanthum and Zanthoxylum chalybeum for cytotoxic principles against drug sensitive and multidrug resistant leukemia cancer cell lines</i>	January 2018	University of Nairobi

Ph.D THESIS EXAMINATION

No	Name /Reg no	Title of thesis	Year examined	University
1	Shadrack Kithia	<i>The effects of land use types of the hydrology</i>	2006	University

		<i>and water quality of upper Athi River basin</i>		of Nairobi
2.	Martin Njogu Mbugua I80/7746/2004,	<i>Synthesis and bioactivity studies of ring-constrained glucagons analogues</i>	July, 2006	University of Nairobi
3.	Andile Bulelani Mzinyati	<i>Thermal transformation of organoboranes: Applicability of ¹¹B NMR spectroscopy and supporting molecular modelling</i>	24 th January, 2008	University of Kwazulu-Natal
4	Omondi Stephen Fredrick, I80/92661/13	Reproductive biology and population ecology of Senegalia Senegal wild in Lake Baringo woodland ecosystems, Kenya	August, 2016	University of Nairobi
5	Everlyne K. Amadi, SC431-3258/12	Characterization and evaluation of selected herbal drugs used to treat fungal and bacterial infections in Mbeere, Eastern Kenya	September, 2016	Jomo Kenyatta University of Agriculture and Technology

EXTERNAL EXAMINATION

1. Was External Examiner at Masinde Muliro University of Science and Technology)-2004-2007
2. Was External Examiner at Jomo Kenyatta University of Agriculture and Technology, 2011-2015

COURSES AND TRAININGS ATTENDED

	Title	Venue	Date
1	Step-Ahead course on Human Resource Management	Nairobi, Kenya	January 1990
2	Use of CHN (carbon, hydrogen and nitrogen) analyzer	London, U.K. Warwick, U.K	December 1998
3	Development of distance learning modules	Matuu, Kenya	April 2004
4	Fire and safety	CBPS, University of Nairobi, Nairobi, Kenya	3 rd August, 2007
5	Transformative Leadership and Results-based	Taifa Hall, University of Nairobi,	25 th October

	Management	Nairobi, Kenya	2007
6	E-Content development for Science lecturers	Kenya Wildlife Service Training Institute, Naivasha, Kenya	25 th March- 2 nd April 2005
7	Human Resource Management Information System	ICT Center, University of Nairobi, Nairobi, Kenya	November, 2008
8	Student Management Information System	ICT Center, University of Nairobi, Nairobi, Kenya	28 th September 2006
9	Financial Management	LLT LAB, University of Nairobi, Nairobi, Kenya	6 th October 2009
10	Records Management	LLT, University of Nairobi, Nairobi, Kenya	13 th September 2010
11	Public Procurement and Disposal Regulations	SLT, University of Nairobi, Nairobi, Kenya	2 nd December 2010
12	UNEP-GEF Training Workshop	Chiromo Campus, Nairobi, Kenya	18 th - 22 nd October 2010
13	Disaster Management	Chiromo Campus, Nairobi, Kenya	7 th - 8 th February 2011
14	Customer Service-Know your customer training workshop	Chiromo Campus, Nairobi, Kenya	23 rd - 24 th September 2009
15	Public Procurement and Disposal Regulations and corruption prevention	Chiromo Campus Nairobi, Kenya	2 nd December 2010
16	Writers Workshop (ODL)	Multimedia University College Hotel, Nairobi, Kenya	13 th to 18 th December 2011
17	Writers Workshop (ODL)	Kenya Wildlife Service Training Institute, Naivasha, Kenya	27 th November - 3 rd December 2011
18	Records Management	SPS, University of Nairobi, Nairobi, Kenya	24 th January 2013
19	Update and uploading of course materials and publications	SCI laboratory, University of Nairobi, Nairobi, Kenya	16 th March 2013
20	Sensitization on procurement rules and regulations	SPS Boardroom, University of Nairobi, Nairobi, Kenya	31 st January 2014
21	Q-pulse training	SCI Lab, University of Nairobi, Nairobi, Kenya	7 th March 2014

**MEMBERSHIP OF MANAGEMENT BOARDS, COMMITTEES AND OTHER
ORGANS OF THE UNIVERSITY OF NAIROBI, FACULTY, SCHOOL AND
COLLEGE**

	Title	Membership place	Status	Period
1	Timetabling Committee	College of Biological and Physical Sciences	Member	1995-2009
2	Examinations and Registration Committee	Department of Chemistry	Chairman	1998-2007
3	Module II Programs	Department of Chemistry	Coordinator	2002-2009
4	Open and Distance Learning Timetabling	College of Biological and Physical Sciences	Coordinator	2008-2012
5	Examinations Officer	Faculty of Science	Member	2004-2006
6	Examinations Officer	School of Physical Sciences	Vice-Chairman	2004-2009
7	Disposal Committee	College of Biological and Physical Sciences	Member	2009-present
8	School Management Board	School of Physical Sciences	Member	2009-2015
9	School Academic Board	School of Physical Sciences	Member	2009-2015
10	Corruption Prevention Committee	School of Physical Sciences	Member	2009-2015
11	Departmental Management Board	Department of Chemistry	Chairman	2009-2015
12	Departmental Academic Board	Department of Chemistry	Chairman	2009-2015
13	Chairman	Department of Chemistry	Chairman	2009-2015
14	College Academic Board	College of Biological and Physical Sciences	Member	2009-2015
15	College Management Board	College of Biological and Physical Sciences	Member	2009-2015
16	ISO Committee	Department of	Chairman	2009-2015

		Chemistry		
17	Newsletter Committee	Department of Chemistry	Editor	2009-2015
18	Evening Programmes Committee	Department of Chemistry	Member	2009-2015
19	The Senate	University of Nairobi	Member	2009-2015
20	Ad-Hoc Technical Evaluation Committee UON/T/35/2010	University of Nairobi	Chairman	2011
21	Academic Board	CEBIB	Member	2009-2015

CONSULTANCIES UNDERTAKEN

	Client	Consultancy
1	Real IPM	Pesticide physical-chemical properties
2	Osho Chemicals	Pesticide physical-chemical properties
3	Highchem Essentials	Pesticide physical-chemical properties
4	Maj Chemie	Pesticide physical-chemical properties
5	Kenya Biologics	Pesticide physical-chemical properties
6	Pyrethrum Regulatory Board	Pesticide physical-chemical properties
7	Dahwa Agrochemical Co. Ltd.	Pesticide physical-chemical properties
8	ICIPE	Pesticide physical-chemical properties
9	PESTMATIC	Pesticide physical-chemical properties
10	East African Portland Cement Company	Air Quality Assessment
11	Directorate of Criminal Investigations	Wide spectrum sample analyses
12	KENGEN	Purity of active ingredient
13	Tetra Pak	Feasibility study on a specic project
14	Nation Media Group	Service water analysis

OTHER ACTIVITIES UNDERTAKEN

	Activity	Institution	Date/Venue
1	Curricula assessment	Mombasa Polytechnic University College	23 rd October 2009, Mombasa, Kenya

2	Assessment of facilities	Kenya Revenue Training Institute (KRATI)	26 th October 2009, Mombasa, Kenya
3	Curricula assessment	Kenya Revenue Training Institute	14 th January 2010, Naivasha, Kenya
4	Review of Bachelor Of Education (Science) curricula of School of Education	University of Nairobi	28/2/10 - 4/3/10, Karen, Kenya
5	Peer reviewer	Kenya Journal of Science	17 th February 2011
6	Assessment of facilities and curricula	Kenya Water Institute	27 th March 2013
7	Assessment of postgraduate curricula	Technical University of Mombasa	May 2015

ACTING CAPACITY

1. Dean, School of Physical Sciences, 23rd-25th February, 2010
2. Dean, School of Physical Sciences 19th-23rd July, 2010
3. Dean, School of Physical Sciences, 27th-30th November, 2010
4. Dean, School of Physical Sciences, 7th-9th December, 2011
5. Dean, School of Physical Sciences, 12th-18th January, 2012
6. Dean, School of Physical Sciences 16th-23rd March, 2012
7. Dean, School of Physical Sciences 22nd-23rd May, 2014
7. Dean, School of Physical Sciences 11th-15th August, 2014
8. Dean, School of Physical Sciences 1st-5th September, 2014
9. Dean, School of Physical Sciences 13th-18th May, 2015
10. Dean, School of Physical Sciences 23rd -26th June, 2015

EXTRA-MURAL ACTIVITIES AND MEMBERSHIP OF NON-PROFESSIONAL ASSOCIATIONS

1. Member of CHEMVEST-Composed of 15 members of Department of Chemistry whose main agenda is to increase members' assets. 2010-present
2. Member of Ebenezer Syokimau Association which caters for social and economic wellbeing of Syokimau residents in Machakos County, 2009-present

3. PTA Committee member, Mount Sinai C.M.I. School, 2007-2009

RESEARCH GRANTS

	Name of grant	Purpose	Funder	Amount US \$	Period	Other Collaborators
1	KEN-02	Towards strengthening scientific research in the Department of Chemistry	International Science Program (ISP)	233,009	2010-2016	S. Derese A. Ndakala A. Yenesew J. Midiwo L. Kerubo J. Mwaniki
2	Charities Aid Foundation (CAF) America Inc.	Purchase of equipment in Department	DoW	14,000	2016	S. Derese A. Ndakala
3	Charities Aid Foundation (CAF) America Inc.	Purchase of equipment in Department	DoW	20,000	2017	S. Derese A. Ndakala

COMPUTER KILLS AND COMPETENCES

(a) Proficient in Word, Excel, PowerPoint, Internet and E-mail, Web Design (Dream Weaver)

SCHOLARSHIPS/FELLOWSHIPS AWARDS

(a) German Academic Exchange Service (DAAD) scholarship to pursue M.Sc. at the University of Nairobi, 1985-1988 (Award value DM 10,000)

(b) German Academic Exchange Service (DAAD) scholarship to pursue Ph.D. at the University of Nairobi, 1994-1998 (Award value DM 32,000)

REFEREES

Prof. Shem O. Wandiga Dept. Of Chemistry University Of Nairobi Box 30197-00100, Nairobi	Prof. Bhalendu M. Bhatt Dept. Of Chemistry, University Of Nairobi, Box 30197-00100, Nairobi	Prof. John M. Onyari Dept. Of Chemistry, University Of Nairobi, Box 30197-00100, Nairobi
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