

CURRICULUM VITAE

1.0 PERSONAL INFORMATION

NAME: Joseph Karanja Thiong'o(PhD) Curriculum Vitae

Address: P.O. Box 74862-00200, Nairobi, Kenya

Email: Karanjawat@yahoo.co.uk

Telephone:0733764313

NATIONALITY: Kenyan

GENDER: Male

Date of Birth: 16th August 1956

2.0 QUALIFICATIONS

2.1 Academic Qualifications

- 1995: PhD in Corrosion Science and Engineering, University of Manchester Institute of Science and Technology (UMIST) UK
- 1987: Master of Science in Chemistry, University of Nairobi
- 1981: Bachelor of Education (Science)), Kenyatta University College

2.2 Professional Courses

- 2013: Completed course, Teaching Methodology, Kenyatta University, Nairobi
- January –February 2013: Ministry of Industrialization Workshop, 'Performance Management', Kisumu Hotel
- 10th October, 2011: Completed Course, "Team Building", Outward Bound Trust, Hemmingways, Watamu, Mombasa
- 27th June, 2011: Completed course, "One-day Corporate Governance Training Course" Red Court Hotel, Nairobi
- 26th January, 2011: Completed Course, One-day Corporate Governance Training Course" Red Court Hotel, Nairobi
- 2010: Completed Course, Five-Day Training Course for Directors at Mombasa Serena Beach Hotel, Kenya (This is a Commonwealth pre-requisite course and examination for Institute of Directors Membership)
- 2010: Completed a Team Building Course by Outward Bound Trust, Loitoktok Outward Bound School, Kenya
- 2010: Completed, 'Strategic Leadership and Change Management Workshop for Directors of State Corporations' held at Kenya Institute of Administration, Nairobi, Kenya
- June 2010: Ministry of Education & Tekno International Seminar, 'Linking Industry with Academia', Sun and Sand Hotel Mombasa
- 2008: Completed a Nairobi SACCO Leaders' Capacity Building Seminar, Cooperative Bank Management Centre, Nairobi
- 2008: Kenya Chemical Society, Nairobi Chapter Workshop, Kenyatta University

3.0 EMPLOYMENT HISTORY

- 2007-Date: Senior Lecturer, Department of Chemistry, Kenyatta University
- 1990-2007: Lecturer, Department of Chemistry, Kenyatta University
- 1987-1990: Tutorial Fellow, Department of Chemistry, Kenyatta University
- 1982-1987: Graduate Assistant, Department of Chemistry, Kenyatta University
- 1981-1982: Graduate Teacher, Teachers Service Commission, Kenya

4.0 **Patent:**

‘Pozzolana based cement from industrial and agricultural waste materials (Pat Ref. No. KE/P/2003/00394, WIPO ref. No. IC/04/1734/KE-CA

5.0 **ADMINISTRATIVE RESPONSIBILITIES**

5.1 At Kenyatta University

- February 2016-October 2017, Director Kenyatta University Uni-City and Petrol Station
- 17th July, 2009 to 2010, Director, University-Industry Links and Science Park
- 2nd September 2008-2009, Director University-Industry Links
- 21st June, 2004 – 2008, Deputy Director, Linkages Board and Centre for Linkages and International Programs
- 2003-2004, Director (founding), University-Industry Linkages

6.0 **FELLOWSHIPS:** 1991-1995; British Council Scholar, PhD Program, University of Manchester Institute of Science and Technology (UMIST), United Kingdom

7.0 **POSTGRADUATE SUPERVISION**

7.1 PhD Supervision

2019:

- Marangu Joseph Mwit

2017: (Chemistry)

- Murithi Genson Leornard, “Investigation of Industrial Waste Water Treatment Using Potential Organic and Inorganic Adsorbents”

2012 (Entrepreneurship)

- Oigo Elizabeth Bosibori, H87/15306/2005: “Assessment of factors affecting the Business Performance of Textile Handicraft Traders in Nairobi”

2009 (Chemistry)

- Jackson Wachira Muthengia, ‘The Effect of Selected Media on Novel Portland Pozzolana Cement’, Kenyatta University

2005 (1st Physics PhD in KU)

- Gathua Joseph Kimiri “Pozzolanicity of Selected Kaolinites with Special Emphasis on Pyroprocessing Conditions”

6.1.2 ONGOING (PhD Chemistry)

Nalobile Protus

Ngari Reginah Wangui

Mutitu Daniel Karanja
Mulwa Onesmus Munyao

7.2 Masters Supervision (Chemistry)

2019: Kapis Otieno Erick, I5632259/2015

2015

- Ngui Festus Musyimi, I56/CE/15079: Pozzolanicity, Compressive Strength and Ingress of Selected Aggressive Ions in Kibwezi Bricks Based Cement
- Onesmas Mulwa Munyao, I56/21196/2012: Effects of Surface and Subsurface Mixing Water of Nairobi, Machakos and Kajiado Counties on Cement Mortar Performance

2014

- Ngari Regina Wangui, I56/CE/15538/2008: Sulphate and Chloride Ingress and the Effect in Selected Cements Mortar Prisms Immersed in Sea Water and Leather Industry Effluent
- Nalobile Protus, I56/10702/2006, Investigation of the Pyroprocessing and the Optimum Mix Ratio of Rice Husks, Broken Bricks and Spent Bleaching Earth to Make Pozzolanic Cement

2013

- Leonard Kinyua John, I56/10360/2007: Pozzolana Cement Obtained by Calcining Raw Clays/Rice Husks Mixtures
- Marangu Joseph Mwit, I56/CE/14210/09: Pozzolanicity, Chloride Ingress and Compressive Strength of Laboratory Made Kenya Clay-Portland Cement Blends
- Mutitu Daniel Karanja, I56/CE/10358/2007: Diffusivity of Chloride and Sulphate Ions Into Mortar Cubes Made Using Ordinary Portland Pozzolana Cements

2009

- Enos Wamalwa Wambu, I56/10873/2004: 'Sorption of Copper (II) ions From Aqueous Solutions by Regenerated Spent Bleaching Earth'

Ongoing

Okumu Mary Assumptor, Has presented her results in a department seminar, Worked at Laboratories of Kenya Bureau of Standards, Mines and Geology GoK, (2018-2019)

Wilson Kogeh, working at Mines and Geology and Bamburi Cement laboratories

THOMAS ONDIBA ONGONDO(I56/CE/28840/2015) Working at East African Portland Cement, Mines and Geology Department, GoK laboratories

Undergraduate projects

4TH Year Student Project: 2016, Ouma A. Lavender ‘Styrene Acrylics For Cementitious Use in Kenya’
 2018: Ileri Munene, ‘The alcohol content and chemical properties of wine made from mangoes’

8.0 CONFERENCES/SEMINARS/WORKSHOPS

8.1 Participation in Workshops/ Conferences

- 2017: National Curriculum Reforms Conference, KICC Nairobi
- 2015: Growth Crossings, Africa’s Role, Organised by The Economist Intelligence Unit, Sponsored by Standard Chartered Bank, Villa Rosa Kempiski, Nairobi, 17th November 2015
- Africa Rising Seminar, Organised by AFFRONTA and Dubai Multi Commodities Centre (DMCC), Dubai, UAE, 15th April 2015
- **2013:** Ministry of Industrialization Workshop on Governance for Chairmen, CEOs of Parastatals and Senior Officers of the Ministry, Kisumu Hotel, Kisumu
- **2012: Kenya Delegate;** International Standards Organization Conference, San Diego, California USA
- **2012:** Centre for Corporate Governance Kenya: Chairmen Annual Workshop Seminar, Leisure Lodge, Diani, Mombasa
- **2011: Attended and was a Discussant,** Centre for Corporate Governance, Research Dissemination Workshop, ‘**A Study of Corporate Governance Practices and Link to Performance in Kenyan Corporations**’, Crownnie Plaza Hotel, Nairobi
- **2011:** One-Day Corporate Governance Course, Nairobi, Kenya
- **2011:** One-Day Corporate Governance Training Course, Nairobi
- **2011:** Study Tour: Comparative competitiveness between Egypt and Kenya governmental organisations, Energy Production, Water and waste management, Port Logistics and Tourism
- **2011:** Team Building Course, Outward Bound Trust of Kenya
- **2010:** Five-Day Training Course for Directors, Mombasa
- **2010:** Ministry of Higher Education and Tekno International, ‘Linking Industry with Academia’
- **2010:** Strategic Leadership and Change Management Workshop for Directors of State Corporations, KIA
- **2010:** Team Building Course, Outward Bound Trust of Kenya
- **2009:** 6th International Conference. Kenya Chemical Society, Mombasa
- **2009:** Research and Development in KU, Conference
- **2008:** XXV International Association of Science Parks Conference on Science and Technology Parks, 14-17th September, 2008, Sandton Conference Centre, Gauteng, South Africa

- **2008:** ‘Evidence–Based Advice to Policy ’ 4th Regional Workshop in Celebration of the Scientific Revival Day of Africa, Kenya National Academy of Sciences, 27th-28th June 2008, Hotel Panafric, Nairobi
- **2008:** Nairobi SACCO Leaders Capacity Building Seminar

8.2 Presentation of Papers at Academic and Professional Conferences

- April 2016, Dr. Karanja Thiong’o, ‘The Basics of effective school management for enhanced Performance’, ACC&S Head Teachers Association, Seminar, Nakuru, Kenya
- Dr. Karanja Thiong’o, ‘Bridging the gap between Africa and Middle East: Local Solutions in Africa’, Africa Rising Seminar, Organised by AFFRONTA and Dubai Multi Commodities Centre (DMCC), Dubai, UAE, 15th April 2015 at Almas Tower, Jumeira Lake Towers, Dubai, U.A.E.
- Dr. Karanja Thiong’o, ‘A study of Corporate Governance Practices and Link to Performance in Kenyan Corporations’ A discussant Paper, Centre for Corporate Governance, Research Dissemination Workshop, Crownnie Plaza Hotel, Nairobi, 2011
- Dr. Karanja Thiong’o, ‘ Research Innovation and Incubation: A market oriented approach’ , Kenya Chemical Society Workshop, Nairobi Polytechnic University, 2013
- **2011: ‘Rural Industrialization is key for realization of Vision 2030’, Chief Guest** Speech, Graduation Ceremony for Gatanga Enterprises Development in Partnership with the Kenya Industrial Entrepreneurship Development and the Department of Gender and Social Development, Gatanga, 16th November, 2011.
- **2008: ‘Becoming a Success in Education-Related Careers’,** Gatanga Constituency Careers’ Day, Kirwara Secondary School, Murang’a County

8.3 Convening and Co-ordinating Conferences

- 15th April 2015, Coordinated a one day Seminar on Africa Rising in Dubai Almas Tower, Jumeira Lake Towers, UAE
- 2012, Convened and Chaired, Kenya Bureau of Standards Strategic Plan, 2012-2017, Amboseli Serena Hotel
- 2009, Member of coordinating Committee, 6th International Conference, The Kenya Chemical Society, Reef Hotel, Mombasa Kenya

9.0 Research and Publications

9.1 Articles in refereed Journals

- Study on the effect of Thiobacillus intermedius bacteria on the physico-mechanical properties of mortars of ordinary portland cement

Onesmus Mulwa Munyao*, **Joseph Karanja Thiong'oa**, Jackson Wachira Muthengiab, Daniel Karanja Mutitub, Romano Mwirichiac, Genson Muriithib, Joseph Mwiti Marangu

<https://doi.org/10.1016/j.heliyon.2020.e03232> Received 10 September 2019;

Received in revised form 5 January 2020; Accepted 10 January 2020 2405-8440/©2020 The Author(s). Published by Elsevier Ltd.

2019 <https://doi.org/10.1016/j.heliyon.2019.e02881>,

- Performance of Ground Clay Brick Mortars in Simulated Chloride and Sulphate Media

Festus Ngui Musyimi, 1 Jackson Muthengia Wachira, 2 **Joseph Karanja Thiong'o**, 1 and Joseph Mwiti Marangu

Hindawi Journal of Engineering Volume 2019, Article ID 6430868, 12 Received 13 May 2019; Accepted 31 July 2019; Published 3 November 2019
pages <https://doi.org/10.1155/2019/6430868>

- Influence of Lysinibacillus sphaericus on compressive strength and water sorptivity in microbial cement mortar

Crossref DOI link: <https://doi.org/10.1016/J.HELIYON.2019.E02881>

Published: 2019-11 Mutitu, Daniel Karanja, Wachira, Jackson Muthengia, Mwirichia, Romano, **Thiong'o, Joseph Karanja**, Munyao, Onesmus Mulwa, Muriithi, Genson

- Pyroprocessing and the optimum mix ratio of rice husks, broken bricks and spent bleaching earth to make pozzolanic cement

[Protus Nalobile](#)^{a,*,**}, [Jackson Muthengia Wachira](#)^b, [Joseph Karanja Thiong'o](#)^a and [Joseph Mwiti Marangu](#)^{c,*}

[Heliyon](#). 2019 Sep; 5(9): e02443.

Published online 2019 Sep 9. doi: [10.1016/j.heliyon.2019.e02443](https://doi.org/10.1016/j.heliyon.2019.e02443)

PMCID: PMC6739460

- Effects of biocementation on some properties of cement-based materials incorporating Bacillus Species bacteria – a review,

Journal of Sustainable Cement-Based Materials, DOI:
10.1080/21650373.2019.1640141 To link to this article:
<https://doi.org/10.1080/21650373.2019.1640141>

Karanja D. Mutitu, Mulwa O. Munyao, Muthengia J. Wachira, Romano Mwirichia, **Karanja J. Thiong'o** & Mwiti J. Marangu (2019):

- Use of Bacillus Species Bacteria in Protecting the Concrete Structures from Sulphate Attack-A Review

Journal of Chemical Reviews, 2019, **Volume 1, Issue 4**, Pages 287-299

[Receive Date: 27 August 2019, Revise Date: 23 October 2019, Accept Date: 31 October 2019]

Onesmus Mulwa Munyao, **Joseph Karanja Thiong'o**, Jackson Muthengia Wachira, Daniel Karanja Mutitu, Mwirichia Romano, Genson Murithi, Use of Bacillus Species Bacteria in Protecting the Concrete Structures from Sulphate Attack-A Review, Journal of Chemical Reviews, 2019, 1(4), 287-299.

Conference paper

- Potential for Selected Kenyan Clay in Production of Limestone Calcined Clay Cement

Joseph Mwiti Marangu¹, Kyle Riding², Anfal Alaibani², Abba Zayed³, **Joseph Karanja Thiong'o**⁴ and Jackson Muthengia Wachira⁵

(18) (PDF) *Potential for Selected Kenyan Clay in Production of Limestone Calcined Clay Cement*. Available from:

https://www.researchgate.net/publication/337006083_Potential_for_Selected_Kenyan_Clay_in_Production_of_Limestone_Calcined_Clay_Cement [accessed Feb 05 2020].

- Review of Carbonation Resistance in Hydrated Cement Based Materials

Joseph Mwiti Marangu¹, **Joseph Karanja Thiong'o**¹ and Jackson Muthengia Wachira²

Hindawi Journal of Chemistry **Volume 2019, Article ID 8489671**, 6 pages

<https://doi.org/10.1155/2019/8489671>

- Properties of activated blended cement containing high content of calcined clay Marangu J. Mwiti, **Thiong'o J. Karanja**, Wachira J. Muthengia, , Heliyon 4 (2018)e00742 doi. 10.1016/j.heliyon.2018.e00742

- **Physicochemical Performance of Portland-Rice Husk Ash-Calcined Clay-Dried Acetylene Lime Sludge Cement in Sulphate and Chloride Media**

Jackson Muthengia Wachira¹, **Joseph Karanja Thiong'o**², Joseph Mwiti Marangu³, and Leonard Genson Murithi¹

¹Department of Physical Sciences, University of Embu, Embu, Kenya

²Department of Chemistry, Kenyatta University, Nairobi, Kenya

³Department of Physical Sciences, Meru University of Science and Technology, Meru, Kenya

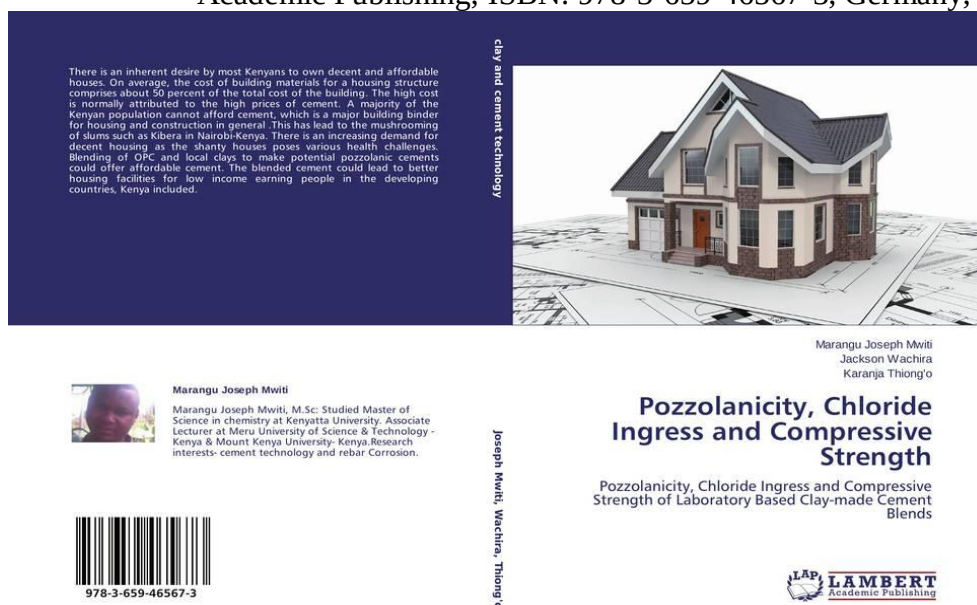
Academic Editor: Robert Černý Received 01 Dec 2018, Revised 12 Mar 2019 Accepted 17 Mar 2019 Published 08 Apr 2019

- Marangu, J. M.; **Thiong'o, J. K.**; Wachira, J. M. Chloride Ingress in Chemically Activated Calcined Clay-Based Cement. *J. Chem.* **2018**, 2018, 1–8, doi:10.1155/2018/1595230.
- Genson Murithi, **Karanja wa Thiong'o**, Wachira Muthengia, Fixed Column Removal of Lead (II) Ions from Industrial Effluent using Pig Bone Char, Rice-Husks Ash and Water Hyacinth Composite Adsorbent **Volume 7 Issue 2**, February 2018, pp1283-1287
- Marangu J.M, **Wa- Thiong'o J.K** and Muthengia J.W (2017). Effects of Potential Chloride-Free Admixtures on Selected Mechanical Properties of Kenya Clay-Based Cement Mortars. *Proceedings of the 19th International Conference on Cement and Concrete Chemistry. Journal of Chemical and Molecular Engineering Vol:4, No:10, 2017*, Istanbul, Turkey, October 26-27, 2017
- Genson Murithi, **Karanja wa Thiong'o**, Wachira Muthengia, 'Equilibrium Studies for Adsorption of Zn^{2+} on to Acid Treated Kikuyu Grass Pennisetum Clandestinum Biomass' International Journal of Science and Research (IJSR), ISSN (Online): 2319-7064, Vol 5 Issue 4, April 2016, 1754-1760
- Genson Murithi, **Karanja wa Thiong'o**, Wachira Muthengia, 'Ashed SBE Adsorbent for Lead and Zinc (II) Ions: Kinetic and Equilibrium Studies', International Journal of Science and Research (IJSR), Volume 5 Issue 3, March 2016, 1729-1734
- Genson Murithi, **Karanja wa Thiong'o**, Kariuki S. Warui, Wachira Muthengia, 'Fixed Column Study for the Removal of Zinc (II) Ions from Waste Water by Bone Char Rice Husks Ash and Water Hyacinth Composite-Mixture', International Journal of Science and Research (IJSR), Volume 5 Issue 2, February 2016
- Mutitu D. K., **Karanja J.K.**, Wachira J.M., 'Diffusivity of Chloride Ion in Mortar Cubes Made Using Ordinary Portland and Portland Pozzolana Cements' IOSR Journal of Applied Chemistry(IOSR-JAC), e-ISSN: 2278-5736. Volume 7, Issue 2 Ver. I. (Mar-Apr. 2014), PP 67-73 www.iosrjournals.org 2014
- Marangu J.M, Muthengia J.W. and **wa- Thiong'o J.K.**, 'Performance of Potential Pozzolanic Cement in Chloride Media' **IOSR Journal of Applied Chemistry (IOSR-JAC)** e-ISSN: 2278-5736. Volume 7, Issue 2 Ver. I. (Mar-Apr. 2014), PP 36-44 www.iosrjournals.org
- Muthengia Jackson Wachira, Muthakia Gerald Kanyago and **Thiong'o Joseph Karanja**(2012) 'Cementing material from rice husk-broken bricks-spent bleaching earth-dried calcium carbide residue', **Mediterranean Journal of Chemistry** 2(2), 400-407

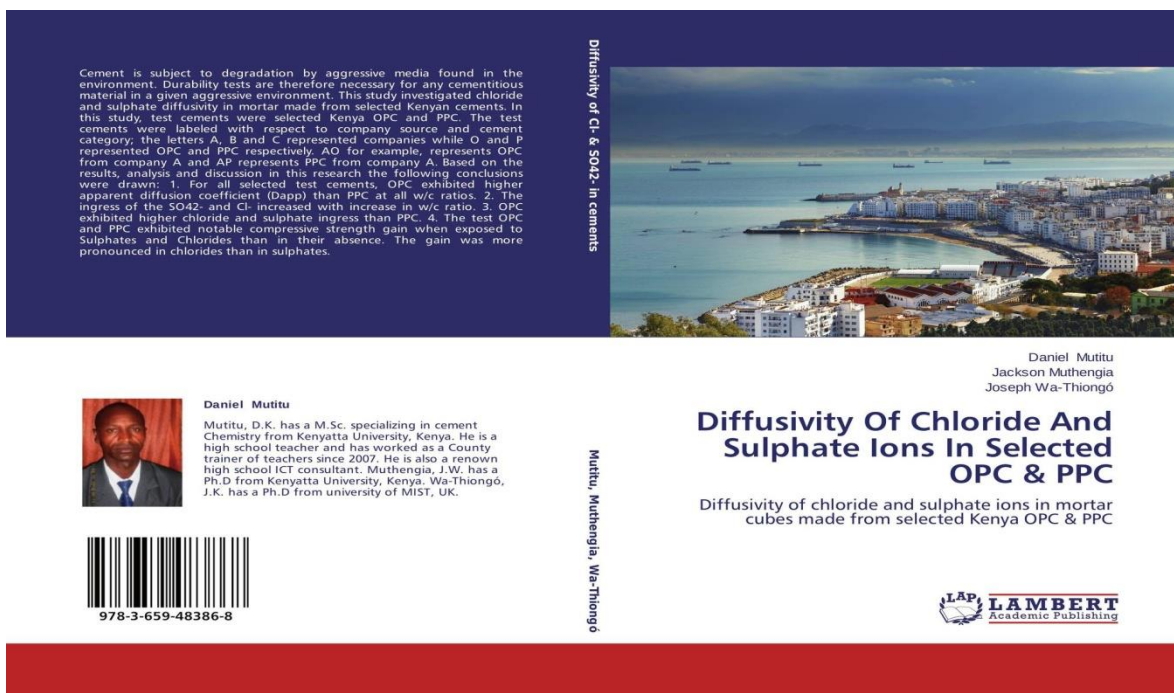
- Enos W. Wambu, Gerald K. Muthakia, **Joseph K. Wa-Thiong'o** and Paul M. Shiundu, 'Kinetics and Thermodynamics of Aqueous Cu(II) Adsorption on heat regenerated spent bleaching earth' **Bulletin of the Chemical Society of Ethiopia**, **2011**, 25(2), 181-190
- Enos W. Wambu, Gerald K. Muthakia, **Joseph K. wa-Thiong'o**, Paul M. Shiundu (2009), 'Regeneration of spent bleaching earth and its adsorption of copper (II) ions from aqueous solutions', **Applied Clay Science** **46** (2009) 176-180
- Enos W. Wambu, Gerald K. Muthakia, Paul M. Shiundu and **Karanja J. Wa Thiongo**, 'Kinetics of Copper Desorption from Regenerated Spent Bleaching Earth', **American-Eurasian Journal of Scientific Research**, **4**(4), 317-323, 2009

9.2 Books

1. Chapter in Book, Joseph Mwiti Marangu, **Thiong'o J. Karanja***, Wachira J. Muthengia, ' **Calcined Clays for Sustainable Concrete** ' : Thermal Resistivity of Chemically Activated Calcined Clays-Based Cements, January 2018, DOI, 0.1007/978-94-024-1207-9_53
2. Marangu J.M, **Wa- Thiong'o J.K** and Muthengia J.W (2017). Thermal Resistivity of Chemically Activated Calcined Clays -Based Cements, *Calcined Clays for Sustainable Concrete Proceedings of the 2nd International Conference on Calcined Clays for Sustainable Concrete in Springer RILEM Book series*, La Havana, Cuba, 05th to 07th December 2017
3. Marangu Joseph Mwiti, Jackson Wachira and **Karanja Thiong'o***, 'Pozzolanicity, Chloride Ingress and Compressive Strength', Lambert Academic Publishing, ISBN: 978-3-659-46567-3, Germany, 2013.



4. Daniel Mutitu, Jackson Muthengia, **Joseph wa Thiong'o**, 'Diffusivity of chloride and sulphate ions in selected OPC & PPC, Lambert Academic Publishing, ISBN:978-3-659-48386-8 Germany, 2013



10.0 Networking and Collaboration with External Organizations

a. Pest Control Products Board of Kenya

2012-Date: Products quality control investigations in Physical and Chemical Properties Chair of a team in the Department of Chemistry that is accredited with the investigations. This is an important part of registration of Pesticide products in Kenya and to-date have done many analysis and given results to the Board. This has earned the University and the Department of Chemistry income streams

b. Environmental Audits and Investigations for the Insurance and other Industries

- 1 Explosion at a spirits manufacturing firm, an expert opinion, November 2015
4. Gypsum, Sea Water Contamination and Cement November 2015
5. Quality of Alcoholic Beverages salvaged from a fire ravaged shop, April 2015
6. Characteristics of some solvents of Shivam Paints Kenya Ltd.,(Fire risk assessment) Nairobi, Kenya 2014
7. Characteristics of some chemicals in Kenya Medical Supplies Agency (fire risk assessment), Nairobi, 2013
8. 'Effluent Solutions Audit at Haco Industries' Nairobi, Kenya 2008

c. Forensic Science Research Mainly for the Insurance and other Industries

1. Fire Loss at Yuko's Enterprises Limited Tanzania on 6th July 2018
2. Fire loss at Specialized Aluminium Renovators Ltd in Nairobi's Industrial Area on 26th September 2019
3. Fire Loss of a Caterpillar Front Loader Machine at Kenya Clay Products Ltd on 30th July 2019

4. Fire Loss at Regideso Company of Burundi on 25th May 2018
5. 'Fire loss at DEFCO Complex at Embakasi Garrison on 17th December 2017'
6. 'Fire loss at Mabati Rolling Mills Ltd Mariakani on 11th December 2017'
7. 'Fire loss at Magenta-Cut Co. Ltd on 15th November 2017'
8. 'Fire loss at Jaber Ginnery South Base Agro Industries Ltd Uganda on 20th November 2017'
9. 'Fire loss at Busitema University Uganda on 8th October 2017'
10. 'Fire loss at Uganda Biscuits Ltd Kampala on 16th October 2017'
11. 'Fire loss at Third Line Enterprise on Pate Road Industrial Area on 18th September 2016'
12. 'Fire loss at Ziwa Beach Resort Mombasa on 15th September 2017'
13. 'Fire loss at Styroplast Industries Ltd on 12th September 2017'
14. 'Fire loss at Norda Industries Ltd on 7th June 2017'
15. 'Fire loss at Kingara House on 17th June 2017'
16. 'Fire loss at Pramukh Cash and Carry Ltd Kisumu on 26th April 2017'
17. 'Fire Loss at AB Plus Store of Bujumbura Burundi on 23rd February 2017' (International Commission)
18. 'Fire Loss at Executive Printing Works Ltd Nairobi 18th February 2017'
19. 'Fire Loss at Royikems Ltd Jinja-Kampala Road on February 2017' (International Commission)
20. 'Fire loss at Tikoo Aco Limited Nairobi February 2017'
21. 'Fire Loss at Gomba Fishing Industries Jinja Uganda on 9th January 2017' (International Commission)
22. 'Fire Loss at Yogi Plumbers Ltd Warehouse Nairobi on 11th December 2016'
23. 'Fire Loss at Jungle Foam Ltd Warehouse Thika on 10th December 2016'
24. 'Fire Loss of Truck KAG 127P on 22nd October 2016'
25. 'Fire Loss at Kampala University School of Nursing and Health Sciences Uganda on 3rd September 2016' (International Commission)
26. 'Fire loss at House of Leather (K) Limited Warehouses Nairobi July 2016'
27. 'Fire loss at Neptune Hotels Ltd. Ukunda Kwale County in June 2016'
28. 'Fire loss at Summit Foams Company Ltd April 2016'
29. 'Fire loss at Makueni Assembly Addendum 30th May 2016'
30. 'Fire loss at 24 Miotoni Road Karen Nairobi April 2016'
31. 'Fire loss at Crest Foam Limited March 2015' (International Commission)
32. 'Fire Loss at Royal Animal Feeds Company Ltd Nakuru on 5th March 2016'
33. 'Fire loss at Makueni Assembly Hall, Wote, Makueni, 7th March 2016'
34. 'Fire loss at J and J Trading Company Ltd Kampala Uganda on 26th February 2016' (International Commission)
35. 'Fire loss at Great Yaduo Company Ltd February 2016'
36. 'Fire loss at Britind Industries Nairobi in December 2015'
37. Fire loss at Jubilee Insurance Centre Kampala Uganda on 16th November 2015
38. Fire loss at Molo ADC Potato Cold Storage Facility in November 2015
39. Fire loss at Mastermind Tobacco LPP Store at Mavoko in August 2015
40. Fire loss at Marvic Ltd. Nairobi in August 2015
41. Fire loss at Aqualine Distributors in Athi River July 2015
42. Fire loss at Braeburn Schools' Workshop at Nanyuki July 2015
43. Fire loss at Vitafoam (K) Limited Nairobi June 2015

44. Fire loss at Pabari Enterprises Limited in June 2015
45. Fire loss at Doric Industries Ltd Nairobi in May 2015
46. Fire loss at Tuskys Supermarket Hakati Branch Nairobi May 2015
47. Fire loss at Crest Foam Ltd., Kampala, Uganda, March 2015 (International Commission)
48. Fire loss at Athi River Mining Mavuno Fertilizer Plant February 2015
49. Fire loss at Brother Shirt Factory Ltd in Nairobi February 2015
50. Fire loss at Jumbo Mattresses Ahero Kisumu in December 2014
51. Fire loss at House C6 Amara Park Imara Daima in Nairobi January 2015
52. Fire loss at Gertbell Enterprises Kantafu Machakos in December 2014
53. Fire loss at Tripple Eight Mall Muindi Bingu Street Nairobi in November 2014
54. Fire loss at Runda Kigwaru House number 8 Nairobi in November 2014
55. Fire loss at Mulu Apartments in Machakos in November 2014
56. Fire loss at Eliud Mathu Valley Road Runda in September 2014
57. Fire loss at Naivas Supermarket Utawala Nairobi in September 2014
58. Fire loss at DEFCO Shop October 2014
59. Fire loss at Megascop Health Care Kenya Ltd. In December 2013
60. Fire loss at Reliable Electricals Ltd. in June 2014
61. Fire loss at Kings Kitchen Limited Nairobi July Nairobi in July 2014
62. Fire loss at EAGC Nairobi in June 2014
63. Fire loss at Starplast Ltd in January 2014
64. Fire loss at Sidaigaya Willy House Kigali, Rwanda, 2014 (International Commission)
65. Fire loss at Creative Innovations Kenya Ltd. In September 2013
66. Fire loss at Premier Construction Ltd., Nairobi, Kenya 2013
67. Fire loss at Caribea Club, Milimani, Nairobi, Kenya 2013
68. Fire loss at Kenya Methodist University Towers, University Way, Nairobi 2013
69. Fire loss at Waikiki Agrovat Ltd., Ruiru, Kenya, 2013
70. Fire loss at Musomi Academy in July 2013, Migori, Kenya 2013
71. Fire loss at Shivam Paints Kenya Ltd., Nairobi, Kenya 2013
72. Fire loss of a private motor vehicle at Emurwa Dikir, Bomet Kenya 2013
73. Fire loss at Rangechem Pharmaceuticals Ltd. Nairobi, Kenya 2013
74. Fire loss of Kenya Cooperative Creameries Electrical Generator, Nairobi, 2013
75. Fire loss of a Kenya Medical Research Institute motor vehicle, Mwingi, Kenya 2013
76. Fire loss of Kavuma Vehicle, Kampala, Uganda, 2013 (International Commission)
77. Fire loss at Dunavant Uganda Ltd., a Cotton Ginnery at Oyum, Uganda, 2013 (International Commission)
78. Fire loss of KEMRI Vehicle December 2012
79. Fire loss at Kenya Medical Supplies Agency, 2013 (Project of National Importance Commission)
80. Fire Loss at Cadillac Restaurant and Night Club, Kigali Rwanda‘ 2013 (International Commission)
81. Fire loss at Neo-Interior Decorators Ltd in December 2012, Nairobi, Kenya 2012
82. ‘Fire Loss at Magana House’ Kikuyu, Kenya 2012
83. ‘Fire Loss at Kimathi House Nairobi, Kenya 2012
84. ‘Fire Loss at Leopard Beach Hotel’ Mombasa, Kenya, 2012
85. ‘Fire Loss at EPCC Industries’ Nairobi, Kenya 2012

86. 'Fire Loss at Mekan E.A. Industries' Nairobi, Kenya 2012
87. 'Blast at a Petrol Station on Kirinyaga Road Nairobi, Kenya' 2011 (International Multinational Commission, and a project of National Importance)
88. Fire loss at Mastermind Tobacco Factory Kenya Ltd. Nairobi, Kenya 2011
89. 'Fire loss of a plane' Kitale, Kenya 2011
90. Fire loss at Samrat Supermarket Nyeri, Kenya 2011
91. Fire loss at Muoroto Supermarket, Githunguri, Kenya 2011
92. 'Fire loss at Ukwala Supermarket' 2011
93. 'Loss due to kerosene storage tank failure' Nairobi, Kenya 2010
94. 'Fire loss at Kenafric Industries Limited' Nairobi, Kenya 2010
95. 'Fire loss at Ichoho House Lavington' Nairobi, Kenya 2010
96. 'Fire loss at Dubai Cash and Carry Limited' Nairobi, Kenya 2009
97. 'Fire loss at a residential House in Ruiru', Kenya 2009
98. 'Alleged damage of a Lathe Machine by Sea Water', Nairobi, Kenya 2009
99. 'Fire loss at Ambra Café Ltd', Nairobi, Kenya 2009
100. 'GPRS Device Damage by unknown chemical' 2009
101. 'Fireloss at AMSCON Premises' 2009
102. 'Fireloss at Downtown Nakumatt Supermarket' Nairobi, Kenya 2009 (Project of National Importance Commission)
103. 'Fireloss at Polyflex Industries' Nairobi, Kenya 2009
104. 'Fireloss at Leon House' Nairobi, Kenya 2008
105. 'Loss Associated with a Rain Storm at Dandora Millers Ltd.' Nairobi, Kenya 2008
106. 'Alleged Contamination of Spare Parts by Sea Water', Mombasa Kenya 2008
107. 'Fire loss at Arvee Fashions Limited', Nairobi, Kenya 2008
108. 'Alleged Contamination of a Suiting Material' Nairobi, Kenya 2007

11.0 External and Internal Grants

Application for a grant

- 2018: Darwin Initiative Round 25: Partnership Projects
DIR25PP\100017

Conservation and Treatment of Irrigation Waste Water in Kenya
(Funding Sought: £9,995.65)- With Researchers from University of Wales (UK),
University of Embu, Meru University of Science and Technology and Kenyatta
University)

- **Funded Research Activities with Marangu Joseph Mwiti, PhD**

Project Title	Year	Funding Agency	Scope	Est. value(Ksh)
Effects of Potential Activators on Performance of Calcined Clay-Based Cement	2016-2018	African Development Bank (AfDB)	3-year PhD Scholarship	2,300,000

Effects of Potential Activators on Performance of Calcined Clay-Based Cement	2016 - 2017	Eduardo Torroja Institute of Construction Science, Madrid – Spain	Partial Research Grant	680,000
Effects of Potential Activators on Performance of Calcined Clay-Based Cement	2016-2018	National Research Fund	Partial Research Grant	1,615,000
The 4 th Doctoral School, Lausanne, Switzerland	April, 2018	Laboratory of Construction Materials (EPFL, Switzerland)	Partial Scholarship	200,000
The 2 nd International Conference on Calcined Clays for Sustainable Concrete, La Havana CUBA	December 5 th –7 th 2017	Laboratory of Construction Materials (EPFL, Switzerland)	Partial Conference Grant	150,000

- Onesmus Mulwa Munyao PhD, Student
- **2010:** Carolyn Langat-Thoruwa, **J.K. Thiong'o**, Okumu J., Dinah Tumuti, Case Study Partnerships-Strengthening Higher Education Stakeholder Relations in Africa Project. Kenyatta University and Ottawa University, Canada. Funded by AAU and AUCC
- **1997-Date:** Grant in Kind:
Bamburi Cement Company Ltd
Savannah Cement Company Ltd
East African Portland Cement Limited: Support for cement research in their laboratories for my students and myself
2010-Date: Mines and Geology Department of GoK: Support for my students with laboratory facilities

12.0 LOCAL, REGIONAL & INTERNATIONAL APPOINTMENTS

12.1 External Examiner in other Universities

- February 7, 2015: MSc project University of Nairobi, Department of Chemistry, John Wanjala Makokha; MSc thesis; 'Utilization of Kwale Ilmenite Ore in Production of Refractory Firebricks', 2015

12.2 Review of Professional Periodicals

- 2009 Kenya Chemical Society Journal

12.3 Invited to a conference as a guest speaker

- 15th April 2015, Africa Rising Seminar in Dubai, Presented a Paper on Bridging the gap between Kenya and Middle East on Trade

11.4 Appointment to Boards

November 2015-Date: Appointed Chairman, Board of Management, Kigumo Bendera High School, Appointed Member, Board of Management, Kigumo Bendera High School

2012-2015: Appointed Board member, Kigumo Bendera High School

2014-Date: Board Member, Education Board of African Christian Church and Schools

2007-2012 Board of Governors; Ndakaini Secondary School

8th August 2011-2012: Appointed **by Hon. Amason Kingi**, Minister for Industrialization as a Member: **Kenya Government** Taskforce to Review governing operations of the State Corporations under the Ministry of Industrialization, Republic of Kenya

Elected Chairman: 2003-2014: Kenyatta University Boma Housing Cooperative Society Ltd.

Achievements: Presided over a gated community Housing Estate Development: Estate Planning, Land surveying, Roads and perimeter wall Construction, House and architectural planning and design, Borehole water drilling and supply installation

2013-2017: Appointed **Chairman:** African Christian Church and Schools, Development Committee

Achievements: Hosted our president, H.E. the President, Hon. Uhuru Kenyatta, CGH, Commander in Chief of the Defence Forces of Kenya, in a fundraiser for the church project in 2014 at the Thika Cathedral grounds

Led building of student hostels for empowering the church and as foundation for building a church-based University

May 2010-May 2013: Appointed **Chairman by H.E. Hon. Mwai Kibaki The President of the Republic of Kenya**, National Standards Council; Kenya Bureau of Standards (**KEBS**)

Achievements: Improved Quality delivery and harmony among stakeholders, Lifting firm from deficit to a surplus of over 800 million Kenya shillings in 2011/2012 financial year; Re-categorization of parastatal to a higher level, on-time launch of 2012-2017 Strategic Plan and attendant organizational structure and change management to deliver. Won First Position in various categories of Nairobi International, Nakuru and Mombasa Trade and Agricultural Shows after years of low visibility

Elected Chairman: 2005-2008 Kenversity Savings and Credit Cooperative Society Ltd. Achievements: Developed SACCO to full FOSA Banking Services processing majority of KU employees' salaries and other BOSA services

12.0 AWARDS RECOGNITION

2016: Winner, KU Foundation Annual Charity Golf Tournament; KU Staff Category

2015: Joseph Karanja Thiong'o, 'Certificate of Honour, In Recognition and Appreciation of Exemplary Service Rendered to 'The African Christian Church and Schools' (ACC&S) in the Development Sector'

23rd December 2013, 'Long Service Award', Dedicated Service to Kenyatta University for a period of over 30 (thirty) years

During my tenure as Chairman, Kenya Bureau of Standards (KEBS)

September 2012, Nairobi International Show, August 2012: The Best Medium Based Statutory Board Stand, Mombasa International Show, 2011: Nairobi International Show 2010: Nakuru Agricultural Show

**During my tenure as Chairman, Kenversity SACCO:
International Cooperative Day Awards won**

- **2008:** Second Position: Best Managed SACCO
- Second Position: Best Education Services
- **2007:** First Position: Highest Dividends and Interest
- First Position: Least Expenditure SACCO
- Second Position: Highest Average Member Savings
- **2006:** First Position: Best Managed SACCO
- First Position: Least Expenditure SACCO

2007: Won Kenya Nomination, World Industrial Property Organization (WIPO) African Union (AU) Best Invention/ Innovation in Africa; 'Pozzolana based cement from industrial and agricultural waste materials (Pat Ref. No. KE/P/2003/00394, WIPO ref. No. IC/04/1734/KE-CA

13.0 COMMUNITY OUTREACH

June 2018: Chief Guest, Prize Giving/Education Day. Kimandi Secondary School, 'Remarks by Dr. Thingo'o, at Kimandi Secondary School Prize Giving Day on 15th June, 2018, Kimandi village, Gatanga Murang'a, titled, **"Seeking school-based education relevance in an ever-changing world"**

July 2017: Chief Guest, Dr. Karanja Thiong'o Remarks during the Prize Giving/Education Day at Kanorero Secondary School, Kangema on 1st July, 2017, titled:

"Seeking school-based education relevance in an ever-changing world"

May 2013: '10Km ACC&S National Walk', to support a Church Development Project
Member: ACC&S Church

Normally give motivational speeches to schools

2002-2008 Member: Gatanga Constituency Education Development Committee- Worked with other stakeholders to revive and develop education standards in the Constituency

14.0 ACADEMIC LEADERSHIP

- 2nd – 3rd May 2019; SPHEIR; Kenyatta University Chemistry Mapping Workshop, Lake Naivasha Resort

- 2019: Placement of my PhD Student Onesmus M. Munyao at Losianne Doctoral School Switzerland, for specialized training in Cement and Concrete
- 2018: Placement of my PhD student Marangu Mwiti in Doctoral School, EPFL, Lausanne, Switzerland, for Specialized Training in Limestone Calcined Clay Cement
- 2017: Chairman, Department of Chemistry Consulting Unit; a pioneering development at Kenyatta University
- 2017: Placement for my PhD student, Marangu M. in Eduardo Torroja Institute for Construction Science, Spain for part of his research work
- 2015: Chairman, Department Committee Team for Consultation with Pesticide Control and Promotion Board (PCPB). Led a team that developed facilities and protocols leading to recognition by PCPB for review and analysis of physical and chemical properties of pesticides. (Over a million KShs already paid to KU for such analysis.)
- Development of Teaching/ academic programs in department/school/University
Co-developed Forensic Science course in the Department of Biochemistry

2012-2016: Student Evaluation of Teaching: SCH 541: A, SCH401 B, SCH 406, B, SCH 309, B

15.0 OTHERS

15.1 Appointments

- i) National: Lead Consultant in Material and Fire Loss Insurance Claims
- ii) Regional: Lead Consultant in Vehicle, Material and Fire Loss Insurance Claims (Uganda, Rwanda and Burundi)
- iii) International
Chairman: AFFRONTA International Company; a company based in Dubai with the aim of bridging the trade gap between Africa and the Middle East

15.2 Contribution to University Advancement

2016: Participated in KU Foundation Annual Charity Golf, Muthaiga Golf Club
 2010: Facilitated Collaboration between KU and KEBS through the Department of Biochemistry and Biotechnology
 2008: Appointed K.U. exhibitor, 'Pozzolana based cement from wastes', Commission for Higher Education Kenya Universities Exhibition, Mombasa Kenya, work recognized as exceptional by then Minister. Hon. Prof. Ongeru
 2007: Appointed Exhibitor, 'Pozzolana cement from industrial and agricultural wastes', African Ministerial Conference on Science and Technology, Mombasa Kenya
 September 2007: Appointed Exhibitor, Nairobi ASK/ Trade Fair, 'Pozzolana Based cement from industrial and agricultural waste materials', Nairobi 1st – 7th October 2007

15.3 Membership to Professional Bodies

October 2010-date Member, Institute of Directors (Kenya) (MIOD(K))
 May 2007 – date: Member Kenya National Academy of Sciences (MKNAS)
 1991-date: Member, Kenya Chemical Society (MKChemSoc)

Referees:

1. Mr. Mahesh Mavji
Loss Adjuster and Director,
Mclarens (K) Ltd, Nairobi
Tel. +254722515637
2. Prof. Hudson Nyambaka
Department of Chemistry
Kenyatta University
P.O. Box 43844-00100
Nairobi
3. Prof. Joseph Kimura
Department of Accounting
United States International University, Nairobi
Tel. 0721624525
4. Rev. Jeremiah K. Ngumo
Moderator,
African Christian Church and Schools (ACC&S)
P.O. Box 1365-00100
Thika

Profile of :
Joseph Karanja Thiong'o,
Senior Lecturer
Department of Chemistry,
School of Physical and Applied Sciences,
Kenyatta University

We have continued to be driven by a passion to provide tangible solutions to problems facing our people, Country and the world at large. In furtherance of Kenyatta University Vision and Mission, we have strived to offer the best in our teaching by using pedagogical techniques that fire up the students to want to read and research more and apply where possible. As an example, our teaching of 'Surface and Colloid Chemistry' has been fairly well rewarding recently when students have brought me samples of liquid detergents and soaps that they produced with my consultation and sold in the market place during their holidays/ time outs. One such student in 2016, carried out a research project, 'Styrene Acrylics for Cementitious Use in Kenya' in her 4th year project. Another student is finalizing on a project to check whether over-ripe mangoes can be used to make wine. It is gratifying to note that a past such student who obtained a First Class Honours and refereed by ourselves has just won a scholarship at the Graduate School of State University of New York at Binghamptom, Department of Chemistry from the year 2018.

Our main area of research has continued to be in materials, specializing in Waste management, reducing the carbon effect on the environment and Entrepreneurial development. In this regard, we have four (4) PhD graduates and a fifth is just about to defend his thesis. The latter's project has particularly been gratifying in that we managed to send the student to Torroja Institute in Spain and also Lousanne Doctoral School, Switzeland for a part of his research and a course in cement research. We believe that our students should be exposed to international state of the art laboratories so as to be world class in outputs. We have other two PhD students working in the cement and concrete research. So far, nine (9) students have graduated with their Masters from our stable in the area of cement and concrete research. In June 2018, three of our publications reached the milestone of 20 citations in Research Gate.

On the larger University service, as a Director of Unicity and Petrol Station, we opened the facilities for business. Our aim was to make the Unicity Mall a service-based institution for not only the university but also the environs. In that regard, we recruited Equity Bank among others and it is gratifying to note that the business is continuing. We hope that the Mall will be fully occupied so that it continues to provide a window and a mirror for a reality check on academia. In support of the Kenyatta University Foundation, in 2016, we participated in KU Foundation Annual Charity Golf at Muthaiga Golf Club where we won in the KU staff category.

Our service to the Community in our area of specialization has been in the Insurance Industry where we have created a name in material, marine and fire loss investigations. In this regard, we have been consulted widely in East Africa on the same. In Kenya, we have led a

Department of Chemistry group in consulting for Pesticide Product Control Board which has appointed us their agents in the area of physical/chemical analyses. To carry out the function as expected, we have organized training sessions on best laboratory practices (GLP) for the group.

In the global arena, we organized an 'Africa Rising Seminar' under the aegis of AFFRONTA and Dubai Multi Commodities Centre (DMCC), Dubai, UAE, on 15th April 2015 at Almas Tower, Jumeira Lake Towers, Dubai, U.A.E. with the aim of attracting business to East and Central Africa. Through these interactions, we landed invitation for the GBF Africa 2017 in Dubai that was sponsored by the ruler of Dubai in 2017.

Locally, we have continued to support the work of the Church by chairing the Development Committee of the ACC and S Church. We are also members of the Education Committee of the said Church. We chair the Board of Management of Kigumo Bendera High School. Generally, in the field of supporting education in rural Kenya, we have recently presided over prize/giving and education days in the said Kigumo Bendera, Kanoorero Secondary School, Kangema and Kimandi Secondary School in Gatanga. These interactions have not only opened up the rural communities to global education and social issues but also development matters.

We are at an age when one has to think outside the box in order to make life more meaningful and be proud of producing global citizens. It is no longer a world where one was boxed in chemistry, for example, and that was it. One has to make sense in a globalized world.

Some chosen publications and Consulting reports:

Articles in refereed Journals

1. **Marangu, J. M.**; Thiong'o, J. K.; Wachira, J. M. Chloride Ingress in Chemically Activated Calcined Clay-Based Cement. *J. Chem.* **2018**, *2018*, 1–8, doi:10.1155/2018/1595230.
2. Genson Murithi, **Karanja wa Thiong'o**, Wachira Muthengia, Fixed Column Removal of Lead (II) Ions from Industrial Effluent using Pig Bone Char, Rice-Husks Ash and Water Hyacinth Composite Adsorbent **Volume 7 Issue 2**, February 2018, pp1283-1287
3. **Marangu J.M**, Wa- Thiong'o J.K and Muthengia J.W (2017). Effects of Potential Chloride-Free Admixtures on Selected Mechanical Properties of Kenya Clay-Based Cement Mortars. *Proceedings of the 19th International Conference on Cement and Concrete Chemistry. Journal of Chemical and Molecular Engineering Vol:4, No:10, 2017, Istanbul, Turkey, October 26-27, 2017*
4. Genson Murithi, **Karanja wa Thiong'o**, Wachira Muthengia, 'Equilibrium Studies for Adsorption of Zn^{2+} on to Acid Treated Kikuyu Grass Pennisetum Clandestinum Biomass' *International Journal of Science and Research (IJSR)*, ISSN (Online): 2319-7064, Vol 5 Issue 4, April 2016, 1754-1760
5. Genson Murithi, **Karanja wa Thiong'o**, Wachira Muthengia, 'Ashed SBE Adsorbent for Lead and Zinc (II) Ions: Kinetic and Equilibrium Studies', *International Journal of Science and Research (IJSR)*, Volume 5 Issue 3, March 2016, 1729-1734
6. Genson Murithi, **Karanja wa Thiong'o**, Kariuki S. Warui, Wachira Muthengia, 'Fixed Column Study for the Removal of Zinc (II) Ions from Waste Water by Bone Char Rice Husks Ash and Water Hyacinth Composite-Mixture', *International Journal of Science and Research (IJSR)*, Volume 5 Issue 2, February 2016

7. Mutitu D. K., **Karanja J.K.**, Wachira J.M., ‘Diffusivity of Chloride Ion in Mortar Cubes Made Using Ordinary Portland and Portland Pozzolana Cements’ *IOSR Journal of Applied Chemistry(IOSR-JAC)*, e-ISSN: 2278-5736. Volume 7, Issue 2 Ver. I. (Mar-Apr. 2014), PP 67-73 www.iosrjournals.org 2014
8. Marangu J.M, Muthengia J.W. and **wa- Thiong’o J.K.**, ‘Performance of Potential Pozzolanic Cement in Chloride Media’ **IOSR Journal of Applied Chemistry (IOSR-JAC)** e-ISSN: 2278-5736. Volume 7, Issue 2 Ver. I. (Mar-Apr. 2014), PP 36-44 www.iosrjournals.org
9. Muthengia Jackson Wachira, Muthakia Gerald Kanyago and **Thiong’o Joseph Karanja**(2012) ‘Cementing material from rice husk-broken bricks-spent bleaching earth-dried calcium carbide residue’, **Mediterranean Journal of Chemistry** 2(2), 400-407
10. Enos W. Wambu, Gerald K. Muthakia, **Joseph K. Wa-Thiong’o** and Paul M. Shiundu, ‘Kinetics and Thermodynamics of Aqueous Cu(II) Adsorption on heat regenerated spent bleaching earth’ **Bulletin of the Chemical Society of Ethiopia**, 2011, 25(2), 181-190
11. Enos W. Wambu, Gerald K. Muthakia, **Joseph K. wa-Thiong’o**, Paul M. Shiundu(2009), ‘Regeneration of spent bleaching earth and its adsorption of copper (II) ions from aqueous solutions’, **Applied Clay Science** 46 (2009) 176-180
12. Enos W. Wambu, Gerald K. Muthakia, Paul M. Shiundu and **Karanja J. Wa Thiongo**, ‘Kinetics of Copper Desorption from Regenerated Spent Bleaching Earth’, **American-Eurasian Journal of Scientific Research**, 4(4),:317-323, 2009

Fire loss investigations:

1. ‘Fire loss at Mabati Rolling Mills Ltd Mariakani on 11th December 2017’
2. ‘Fire loss at Jaber Ginnery South Base Agro Industries Ltd Uganda on 20th November 2017’
3. ‘Fire loss at Uganda Biscuits Ltd Kampala on 16th October 2017’
4. ‘Fire loss at Styroplast Industries Ltd on 12th September 2017’
5. ‘Fire loss at Norda Industries Ltd on 7th June 2017’
6. ‘Fire Loss at AB Plus Store of Bujumbura Burundi on 23rd February 2017’ (International Commission)
7. ‘Fire Loss at Gomba Fishing Industries Jinja Uganda on 9th January 2017’(International Commission)
8. ‘Fire Loss at Kampala University School of Nursing and Health Sciences Uganda on 3rd September 2016’ (International Commission)
9. ‘Fire loss at Neptune Hotels Ltd. Ukunda Kwale County in June 2016’
10. ‘Fire loss at Makueni Assembly Hall, Wote, Makueni, 7th March 2016’

Books:

1. Marangu Joseph Mwititi, Jackson Wachira and Karanja Thiong’o*, ‘Pozzolanicity, Chloride Ingress and Compressive Strength’, Lambert Academic Publishing, ISBN: 978-3-659-46567-3, Germany, 2013.
2. Daniel Mutitu, Jackson Muthengia, **Joseph wa Thiong’o**, ‘Diffusivity of chloride and sulphate ions in selected OPC & PPC, Lambert Academic Publishing, ISBN:978-3-659-48386-8 Germany, 2013

