

SHUKRANI MANYA CV

Ph.D. University of Dar es Salaam, 2005

Executive Secretary

Mining Commission of Tanzania
P.O. Box 2292
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Professor of Geology

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Research Publication Profile using Google Scholar citation index (September 2019)

Citation indices	All	Since 2014
Citations	577	412
h-index	14	12
i10-index	20	20

Shukrani Manya

Executive Secretary
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P.O. Box 2292
DODOMA, TANZANIA

Birth Date: 05 March 1973
Birth Place: Ukerewe, Mwanza
Nationality: Tanzanian
Marital status: Married

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Tertiary Education

Ph.D. (Geology)	2001 - 2005	University of Dar es Salaam, Tanzania
M.Sc. (Geology)	1999 - 2001	University of Dar es Salaam, Tanzania
B.Sc. (Geology)	1994 – 1997	University of Dar es Salaam, Tanzania

National Service

Buhemba JKT (1992-1993, Operation VYAMA VINGI)

Professional and Research Employment and Experience

Mining Commission of Tanzania

Executive Secretary (June, 2018 – todate)
Acting Executive Secretary (January 2018 – May, 2018)

Ministry of Minerals of Tanzania

Commissioner for Minerals (January, 2018 – June, 2018)

University of Dar es Salaam

Professor (November, 2017 – Todate)
Associate Professor (July, 2014 – November, 2017)
Senior Lecturer (July, 2009 – June, 2014)
Lecturer (May, 2005 – June, 2009)
Assistant Lecturer (October, 2001 – May, 2005)

Academic and Research Visits

Departments of Geology, Open University, Milton Keynes and Bristol University, UK (March – May, 2010)
Department of Geology, University of Maryland, USA (September – October, 2005)
Institute for Study of the Earth's Interior, Okayama University, JAPAN (October, 2002 – December, 2003)

Department of Geology and Geochemistry, University of Stockholm, SWEDEN
(February – May, 2001)

Industrial Experience in gold exploration projects in greenstone belts of Tanzania

Exploration Geologist with Tanganyika Gold Ltd at Busolwa and Mawemeru Project, Geita (July, 1997 – January, 1998)

Exploration Geologist with Anglo American Exploration Ltd at Nyamulilima Hill Project, Geita (March 1998 – October, 1999)

Several visits in mines as students Supervisor and researcher

Research Profile

I have taken a keen interest in studying the magmatic processes of gold-bearing igneous rocks in the greenstone belts of Tanzania using major and trace element geochemistry, isotope geochemistry and geochronology. Through these studies, ancient tectonic setting and processes leading to formation of geological terranes have been unravelled. My research interests have therefore focused on:

Geochemistry and geochronology of gold-bearing Archaean greenstone belts of the Tanzania Craton.

Geochemistry of igneous and sedimentary rocks in the Proterozoic mobile belts surrounding the Tanzania Craton.

Geochemistry of the Archaean and Proterozoic lower crust granulites in the Pan African Mozambique belt, Tanzania (in Collaboration with Prof. Roberta Rudnick of Department of Geology, University of Maryland, USA).

Exploration and mapping of the Igwisi Hills volcanoes, Tanzania: Understanding how mantle-derived magmas erupt at the Earth's surface (in collaboration with Dr. Richard James Brown of Department of Earth Sciences, Durham University, UK)

Professional Membership and Service

Member, Geological Survey of Tanzania Board (January, 2019 – todate)

Chairman, Geological Survey of Tanzania Ministerial Advisory Board (June, 2016 – January, 2018)

Member, Audit and Risk Management Committee of the Tanzania Petroleum Development Corporation (August 2016 – June 2019)

Member, National Mining Advisory Board, March 2012 - December 2015

Member, Geological Survey of Tanzania Ministerial Advisory Board, since June 2014 – 2016

Member, Geochemical Society (2008 -2012)

Member, Geological Society of Tanzania (2012 – Todate)

University Service

Director of Research and Publication, University of Dar es Salaam (UDSM) (April 2015 – January, 2018)

Head of Department of Geology, University of Dar es Salaam (July, 2012 – March, 2015)
Member of the University of Dar es Salaam Senate (2012 – 2018)
Member, Mbeya University of Science and Technology Council (July 2017 - todate)
Member, Muhimbili University of Health and Allied Sciences Ethics Review Board (April, 2015 – January 2018)
Chairman, UDSM Publication and Ethics Committees (May 2016 – January 2018)
Coordinator, UDSM-Sida Cooperation Programme (2014 - 2018) with the funding of SEK 153 million for five years (2015-2020)
External Examiner for the Department of Geology, University of Dodoma (2009-2015)
Member, Institute of Resource Assessment (IRA) Board, UDSM (Jan 2010 to June 2012)
Coordinator for Norwegian Supported Projects at UDSM (NUFU, NOMA and PITRO) (2010 – 2013).
Coordinator, Sida/SAREC Geoscience Project of the Faculty of Science (2004 to 2008)
Member, College Higher Degrees Research and Publication Committee (2005 to 2012)
Deputy Coordinator, College Postgraduate programme and steering committee member of Masters in Integrated Environmental Management (MIEM (2006 to 2012)
Examination Officer of the Department of Geology, UDSM (2004 to 2012)

Awards and Honors

Best final year student in Geology, University of Dar es Salaam (1996/1997) given by the Ministry of Water and Energy University Trust Fund.
Best final year student in Geology, University of Dar es Salaam (1996/1997): Prof. J.T. Nanyaro memorial prize.

Research Grants

Sida grant to Earth Sciences Project for 2009 – 2015 with S. Many as co-PI (**SEK 4,000,000**)
National Geographic Committee on Research and Exploration Grant No. 8562-08, PI - RJ Brown (Open University, UK); Co-PIs - S Many (University of Dar es Salaam), RSJ Sparks, M Field, C Storey (Bristol University) in 2008 (**£ 17000**)
Royal Society International Travel Grant to UK to S Many (University of Dar es Salam) and RJ Brown (Open University) in 2009 (**£ 4000**)
Sida/SAREC grant to the Geoscience Project of the Faculty of Science (S Many – PI) for 2001 -2008

Editorial and Review Responsibilities

Associate Editor, Journal of African Earth Sciences (2015 – todate)
Editorial Board of Tanzania Journal of Science (2006 to 2015)
Editor, Tanzania Journal of Earth Science (2012 – 2015)

Have conducted several reviews of research articles (and books) published in national and international journals since 2007.

Courses Taught at the University of Dar es Salaam

GY 411: Geology and Mineral resources of Tanzania
GY 401: History of the Earth
GY 371: Geotectonics
GY 356: Advanced Geochemistry
GY 250: Crystallography and Mineralogy
GY 229: Introduction to Geochemistry

Postgraduate Students Supervised

1. **Dr. Charles Kasanzu** (M.Sc. student, 2005 - 2007) co-supervising him with Prof. Maboko
Research title: Geology and Geochemical investigation of the clastic sedimentary rocks of the Ikorongo Group of Northwestern Serengeti District, Northeastern Tanzania.
Position: Senior Lecturer in the Department of Geology, University of Dar es Salaam
2. **Dr. Kwelwa Shimba** (M.Sc. student, 2007 – 2009) co-supervising him with Dr. Ivo Vos
Research title: Geological characterization of intrusions and wall rock alteration associated with gold mineralization at Golden Pride deposit, Nzega, Tanzania
Position: Geologist with Geita Gold Mine Ltd.
3. **Gagao Bahame** (M.Sc. student, 2009 – 2012) co-supervising him with Prof. Maboko
Research title: Petrological and Geochemical investigation of the Proterozoic Ndembera volcanic and associated granitic rocks of Mufindi District, SW Tanzania.
Position: Exploration Geologist at Barrick Exploration Africa Limited.
4. **Tulibonywa Tulibako** (M.Sc. student, 2010 -2013) co-supervising him with Prof. Maboko
Research title: Geochemistry and geochronology of the Ngualla volcanic and granitic rocks, SW Tanzania.
Position: Assistant Lecturer, University of Dodoma and a PhD student at Okayama University, Japan (2016 - todate).
5. **Melania Maqway** (M.Sc. student, 2012 – 2015)
Research Title: Geochemistry and K-Ar geochronology of the Rungwe volcanic rocks
Position: Geologist at Tanzania Petroleum Development Corporation (TPDC).

PUBLICATIONS IN PEER REVIEWED JOURNALS AND BOOKS

2017

35. Tulibonywa, T., **Manya, S.**, Torssander, P., Maboko, M.A.H., 2017. Geochemistry of the Palaeoproterozoic volcanic and associated potassic granitic rocks of the Ngualla area of the Ubendian Belt, SW Tanzania. *Journal of African Earth Sciences* 129, 291-306. <http://dx.doi.org/10.1016/j.jafrearsci.2017.01.022>.
34. **Manya, S.**, 2017. Characterization of geochemical alteration halo associated with gold mineralization at the Buzwagi Mine, northern Tanzania. *Journal of African Earth Sciences* 129, 136-145. doi: 10.1016/j.jafrearsci.2017.01.006
33. Kasanzu, C.H., Maboko, M.A.H., **Manya, S.**, 2017. Geochemistry and Sm-Nd systematics of the 1.67 Ga Buanji Group of south-western Tanzania: paleo-weathering, provenance and palaeo-tectonic setting implications. *Geoscience Frontiers* 8, 1025-1037. <http://dx.doi.org/10.1016/j.gsf.2016.09.004>.

2016

32. Shillington, D.J., Gaherty, J.B., Ebinger, C.J., Scholz, C.A., Selway, K., Nyblade, A.A., Bedrosian, P.A., Class, C., Nooner, S.L., Pritchard, M.E., Elliott, J., Chindandali, P.R.N., Mbogoni, G., Ferdinand, R.W., Boniface, N., **Manya, S.**, Kamihanda, G., Saria, E., Mulibo, G., Salima, J., Mruma, A., Kalindekaffe, L., Accardo, N.J., Ntambila, D., Kachingwe, M., Mesko, G.T., McCartney, T., Maquay, M., O'Donnell, J. P., Tepp, G., Mtelela, K., Trinhammer, P., Wood, D., Aaron, E., Gibaud, M., Rapa, M., Pfeifer, C., Mphepo, F., Gondwe, D., Arroyo, G., Eddy, C., Kamoga, B., Moshi, M., 2016. Acquisition of a unique onshore/offshore geophysical and geochemical dataset in the Northern Malawi (Nyasa) Rift. *Seismological Research Letters* 87 (6), 1-11. doi: 10.1785/0220160112.
31. **Manya S.**, 2016. Geochemistry of the mafic volcanic rocks of the Buzwagi gold mine in the Neoproterozoic Nzege greenstone belt, northern Tanzania. *Lithos* 264, 86-95. doi: 10.1016/j.lithos.2016.08.016
30. Kasanzu, C., Maboko, M.A.H., **Manya, S.**, 2016. Reconstruction of Pliocene-Pleistocene sediment sources and weathering intensity in the paleo-life rich Olduvai and Laetoli basins of northern Tanzania using major and trace element geochemistry and Sr isotopic data. *Journal of African Earth Sciences* 123, 89-98. doi:10.1016/j.jafrearsci.2016.07.019.
29. **Manya, S.**, Maboko, M.A.H., 2016. Generation of Palaeoproterozoic tonalites and associated high-K granites in southwestern Tanzania by partial melting of underplated mafic crust in an intracontinental setting: constraints from

geochemical and isotopic data. *Lithos* 260, 120-133.
<http://dx.doi.org/10.1016/j.lithos.2016.05.011>

28. Manya S., 2016. Petrogenesis and emplacement of the TTG and K-rich granites at the Buzwagi gold mine, northern Tanzania: implications for the timing of gold mineralization. *Lithos* 256-257, 26-40.
<http://dx.doi.org/10.1016/j.lithos.2016.03.025>

27. Bahame G., Manya, S., Maboko, M.A.H., 2016. Age and geochemistry of coeval felsic volcanism and plutonism in the Palaeoproterozoic Ndembera Group of southwestern Tanzania: Constraints from SHRIMP U-Pb zircon and Sm-Nd data. *Precambrian Research* 272, 115-132 doi.org/10.1016/j.precamres.2015.10.017

2015

26. Leger, C., Barth, A., Falk, D., Mruma, A.H., Magigita, M., Boniface, N., Manya, S., Kagya, M., Stanek, K.P., 2015. Explanatory Notes for the Minerogenic Map of Tanzania. Geological Survey of Tanzania, 376 pp. ISBN 978-9987-477-94-4 (Book).

25. Willcox, A., Buisman, I., Sparks, R.S.J., Brown, R.J., Manya, S., Schumacher, J.C., Tuffen, H., 2015. Petrology, geochemistry and low-temperature alteration of lavas and pyroclastic rocks of the kimberlitic Igwisi Hills volcanoes, Tanzania. *Chemical Geology* 405, 82-101. <http://dx.doi.org/10.1016/j.chemgeo.2015.04.012>

24. Tulibonywa, T., Manya, S., Maboko, M.A.H., 2015. Palaeoproterozoic volcanism and granitic magmatism in the Ngualla area of the Ubendian Belt, SW Tanzania: constraints from SHRIMP zircon U-Pb ages and Sm-Nd isotope systematics. *Precambrian Research* 256, 120-130. doi:10.1016/j.precamres.2014.11.003.

2014

23. Manya, S., 2014. Geochemistry of the Palaeoproterozoic gabbros and granodiorites of the Saza area in the Lupa Goldfield, southwestern Tanzania. *Journal of African Earth Sciences* 100, 401 - 408. doi: 10.1016/j.jafrearsci.2014.07.016.

22. Mansur, A.T., Manya, S., Timpa, S., Rudnick, R.L., 2014. Granulite-facies xenoliths in rift basalts of Northern Tanzania: age, composition and origin of Archean lower crust. *Journal of Petrology* 55, 1243 - 1286. doi:10.1093/petrology/egu024.

2013

21. Manya, S., 2013. Geochemistry and U-Pb zircon dating of the high-K calc-alkaline basaltic andesitic lavas from the Buanji Group, south-western Tanzania. *Journal of African Earth Sciences* 86, 107 - 118. doi: 10.1016/j.jafrearsci.2013.06.011

20. Manya, S., 2013. Generation of high-K granites at the Archaean – Proterozoic boundary. In Sanjurjo-Sánchez, J. (Ed.), *Advances in Geochemistry Research*. Nova Science Publishers Inc, New York, 59 – 75. **(Book Chapter)**

19. Kwelwa, S., Manya, S., Vos, I.M.A., 2013. Geochemistry and petrogenesis of intrusions at the Golden Pride gold deposit in the Nzega greenstone belt, Tanzania. *Journal of African Earth Sciences* 86, 53 – 64. doi: 10.1016/j.jafrearsci.2013.06.012

2012

18. Messo, C., Manya, S., Maboko, M.A.H., 2012. Geochemistry of the Neoarchaean volcanic rocks of the Kilimafedha greenstone belt, Northeastern Tanzania. *Journal of Geological Research* 2012, article ID 603971, 1-18. doi:10.1155/2012/603971.

17. Manya, S., 2012. SHRIMP zircon U-Pb dating of the mafic and felsic intrusive rocks of the Saza area in the Lupa Goldfields, southwestern Tanzania: implication for gold mineralization. *Natural Science* 4, 724 – 730. doi:10.4236/ns.2012.49096.

16. Brown, R.J., Manya, S., Buisman, I., Fontana, G., Field, M., Mac Niocaill, C., Sparks, R.S.J., Stuart, F.M., 2012. The Eruption of Kimberlite Magmas: Physical volcanology, Geomorphology, and Age of the Youngest Kimberlite Volcanoes known on Earth (the Upper Pleistocene/Holocene Igwisi Hills volcanoes, Tanzania). *Bulletin of Volcanology* 74, 1621 – 1643. doi 10.1007/s00445-012-0619-8.

15. Manya, S., 2012. Mg-rich metabasalts from the southern Musoma –Mara greenstone belt: possible evidence for mantle plume activity in the Tanzania craton? *Tanzania Journal of Science* 32, 71 – 84.

2011

14. Manya, S., 2011. Nd-isotopic mapping of the Archaean–Proterozoic boundary in southwestern Tanzania: Implication for the size of the Archaean Tanzania Craton. *Gondwana Research* 20, 325 – 334. doi:10.1016/j.gr.2011.01.002.

2010

13. Kasanzu, C., Manya, S., 2010. Stratigraphy and sedimentological evolution of the Neoproterozoic Ikorongo Group of North-Eastern Tanzania. *South African Journal of Geology* 113, 361 -368. doi:10.2113/gssajg.113.4.361.

12. Ikingura, J.R., Mutakyahwa, M.K.D., Marobhe, I., Manya, S., Kazimoto, E., Kasanzu, C., Mshiu, E.E., 2010. Atlas of Gold Deposits in Tanzania. *Dar es Salaam*, 88 pp. **(Book)**

2009

11. Mtoro, M., Maboko, M.A.H., Manya, S., 2009. Geochemistry and geochronology of the bimodal volcanic rocks of the Suguti area in the southern part of the Musoma-Mara Greenstone Belt, Northern Tanzania. *Precambrian Research* 174, 241 – 257. doi:10.1016/j.precamres.2009.07.006.

2008

10. Many, S., 2008. Geochemistry and Nd-isotopic composition of high silica rhyolites in the Neoproterozoic Musoma-Mara greenstone belt, northern Tanzania: evidence for the presence of older continental crust. *Tanzania Journal of Science* 34, 53 – 62.
9. Many, S., Maboko, M.A.H., 2008. Geochemistry of the Neoproterozoic mafic volcanic rocks of the Geita area, NW Tanzania: implications for stratigraphical relationships in the Sukumaland Greenstone belt. *Journal of African Earth Sciences* 52, 152 -160. doi:10.1016/j.jafrearsci.2008.06.003.
8. Kasanzu, C., Maboko, M.A.H., Many, S., 2008. Geochemistry of fine grained clastic sedimentary rocks of the Neoproterozoic Ikorongo Group, NE Tanzania: implications for provenance and source rock weathering. *Precambrian Research* 164, 201-213. doi:10.1016/j.precamres.2008.04.007
7. Many, S., Maboko, M.A.H., 2008. Geochemistry and geochronology of Neoproterozoic volcanic rocks of the Iramba-Sekenke greenstone belt, Tanzania. *Precambrian Research* 163, 265 - 278. doi:10.1016/j.precamres.2008.01.001.

2007

6. Many, S., Maboko, M.A.H., Nakamura, E., 2007. The geochemistry of high-Mg andesite and associated adakitic magmatism in the Musoma-Mara Greenstone Belt, northern Tanzania: possible evidence for Neoproterozoic ridge subduction? *Precambrian Research* 159, 241 - 259. doi:10.1016/j.precamres.2007.07.002.
5. Many, S., Maboko, M.A.H., Nakamura, E., 2007. Geochemistry and Nd-isotopic composition of potassic magmatism in the Neoproterozoic Musoma-Mara Greenstone Belt, northern Tanzania. *Precambrian Research* 159, 231 – 240. doi:10.1016/j.precamres.2007.07.001.

2006

4. Maboko, M.A.H., Pedersen, R.B., Many, S., Torssander, P., Mwache, M., 2006. The origin of late Archaean granitoids in the Sukumaland Greenstone Belt of northern Tanzania: geochemical and isotopic constraints. *Tanzania Journal of Science* 32, 75 – 86.
3. Many, S., Kobayashi, K., Maboko, M.A.H., Nakamura, E., 2006. Ion microprobe zircon U–Pb dating of the late Archaean metavolcanics and associated granites of the Musoma-Mara Greenstone Belt, Northeast Tanzania: Implications for the geological evolution of the Tanzania Craton. *Journal of African Earth Sciences* 45, 355 – 366. doi:10.1016/j.precamres.2007.07.002

2004

2. Many, S., 2004. Geochemistry and petrogenesis of volcanic rocks of the Neoproterozoic

Sukumaland Greenstone Belt, northwestern Tanzania. [Journal of African Earth Sciences 40, 269-279. doi:10.1016/j.jafrearsci.2004.12.006.](#)

2003

1. **Manya, S., Maboko, M.A.H., 2003.** Dating basaltic volcanism in the Neoproterozoic Sukumaland Greenstone Belt of the Tanzania Craton using the Sm-Nd method: implications for the geological evolution of the Tanzania Craton. [Precambrian Research 121, 35-45.](#)

CONFERENCE PROCEEDINGS/ABSTRACTS

Manya, S., 2006. Rhyolitic magmas in the Musoma-Mara greenstone belt, Northeast Tanzania: evidence for the presence of an older continental crust in the Tanzania Craton. [21st Colloquium of African Geology, pp. 206 in Mozambique.](#)

Mansur, A.T., **Manya, S., Rudnick, R.L., 2006.** Composition and Thermal History of the lower crust beneath the Tanzania Craton and the adjacent Mozambique Belt. [Presented at AGU meeting, Fall 2006.](#)

Manya, S., Maboko, M.A.H., 2007. Stratigraphy, geochemistry and geochronology of the late Archaean greenstone belts of the Lake Victoria Goldfields, northern Tanzania. [Geoscience conference on Geology and mineralization of the late Archaean greenstone belts of the Lake Victoria Goldfields, pp. 18-19, Mwanza, Tanzania.](#)

Kasanzu, C., **Manya, S., Maboko, M.A.H., 2007.** Geochemistry of the Ikorongo Group of clastic sedimentary rocks, NE Tanzania. Constraints on provenance and upper crust composition. [Geoscience conference on Geology and mineralization of the late Archaean greenstone belts of the Lake Victoria Goldfields, pp. 39-40, Mwanza, Tanzania.](#)

Kasanzu, C., **Manya, S., Maboko, M.A.H., 2008.** Trace element and Nd-isotopic composition of the Neoproterozoic clastic sedimentary rocks of the Ikorongo Group: implications for provenance, palaeoweathering, mineral sorting and post-depositional processes. [18th Goldschmidt conference Abstracts, A451, Vancouver, Canada.](#)

Manya, S., Maboko, M.A.H., 2008. 2.67 Ga high-Mg andesites from the Musoma-Mara greenstone belt, northern Tanzania. [18th Goldschmidt conference Abstracts, A591, Vancouver, Canada.](#)

Manya, S., 2008. Growth of late Archaean continental crust at convergent margins. [The 33rd International Geological Congress, Oslo, Norway, p. 246.](#)

Mansur, A., **Manya, S., Rudnick, R., 2008.** Composition and origin of Archean lower crust, Northern Tanzania. [Presented at AGU meeting, Fall 2008.](#)

Manya, S., 2012. The Buanji Group of southwestern Tanzania: a new Palaeo-proterozoic unit in Tanzania. [23rd Tanzania Geological Society Conference.](#)

Brown, R.J., **Manya, S.,** Buisman I., Sparks, R.S.J., Field, M., Stuart, F.M., Fontana, G., **2012.** Physical volcanology, geomorphology, and Cosmogenic ³He dating of the youngest Kimberlite volcanoes on Earth (the Holocene Igwisi Hills Volcanoes, Tanzania). [Extended Abstract from the 10th International Kimberlite Conference, Bangalore – 2012, 10IKC-248, 6 pp.](#)

Manya, S., Brown, R.J., Buisman I., Sparks, R.S.J., **2012.** Mineralogy and Petrology of the Upper Pleistocene/Holocene Igwisi Hills kimberlitic volcanoes, Tanzania. [Presented at the 34th International Geological Congress, Brisbane, Australia.](#)

Long, K., Rudnick, R.L., McDonough, W.F., **Manya, S., 2013.** Gold distribution in Archean continental crust: Evaluating the effects of intracrustal differentiation in the Tanzanian Craton. [AGU meeting, Fall 2013.](#)

Mesko, G.T., Class, C., Boniface, N., **Manya, S.,** Maqway, M., 2013. A geochemical constraint on the origin of melts using thermobarometry at Rungwe Volcanic Province, Tanzania. [Presented at the Active Volcanism and Continental Rifting \(AVCOR\) conference in Kigali, Rwanda, November 2013. AVCOR Book of Abstracts, pp. 34.](#)

Maqway, M., Class, C., Mesko, G.T., Boniface, N., **Manya, S.,** 2013. A detailed geochronology of the Rungwe Volcanic Province at the southern end of the East African System. [Presented at the Active Volcanism and Continental Rifting \(AVCOR\) conference in Kigali, Rwanda, November 2013. AVCOR Book of Abstract, pp. 25 - 26.](#)

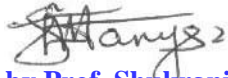
Maqway, M., Class, C., Mesko, G.T., Boniface, N., **Manya, S.,** 2014. ⁴⁰Ar/³⁹Ar geochronological constraints of the Rungwe Volcanics and its associated Carbonatite intrusion in the East African Rift System , SW, Tanzania. [Presented at the 3rd YES Congress in Dar es Salaam, Tanzania, August 2014.](#)

Manya, S., Tulibonywa, T., Maboko, M.A.H., 2014. Palaeoproterozoic volcanism and granitic magmatism in the Ngualla area of the Ubendian Belt, SW Tanzania. . [Presented at the 25th Colloquium of African Geology meeting in Dar es Salaam, August, 2014.](#)

INVITED KEY NOTE ADDRESS

Manya, S., 2018. Update on the Geology of Tanzania: the contribution of New Mineral Deposit Discoveries to Industrialization. [Presented at the 2018 Annual Meeting and Workshop of the Tanzania Geological Society in Dodoma, Tanzania.](#)

Manya, S., 2014. Formation of Neoarchaeon greenstone belts at convergent margins: a case of Tanzania Craton. Presented at the 25th Colloquium of African Geology meeting in Dar es Salaam, August, 2014.

A handwritten signature in black ink, appearing to read 'Manya', with a stylized flourish above the letters.

Signed by Prof. Shukrani Manya