

# CURRICULUM VITAE: Prof. Yunus Daud Mgaya, PhD

## University of Dar es Salaam



### 1. PERSONAL DATA

Name: Prof. Yunus Daud MGAYA

Nationality: Tanzanian

Name of place and date of birth: Usangi, Mwanza District, Kilimanjaro; 27 July 1957

Address: University of Dar es Salaam, School of Aquatic Sciences and Fisheries Technology, P.O. Box 60091, Dar es Salaam, TANZANIA

Residence: House No. 7, Karafuu Street, Mbezi Beach B; Kinondoni District, Dar es Salaam - TANZANIA

Telephone (Mobile): +255 784 237 774; +255 713 237 774

E-mail: [yunusmgaya@gmail.com](mailto:yunusmgaya@gmail.com)

### 2. EDUCATION

<i>Qualification</i>	<i>Dates</i>	<i>Universities/Colleges/Schools</i>
Ph.D. (Aquaculture)	1991-1995	National University of Ireland, Galway
M.Sc. (1 <sup>st</sup> Class, Fisheries Biology)	1987-1989	University of British Columbia, Canada
B.Sc. (1 <sup>st</sup> Class Hons., Zoology; Marine Biology)	1983-1986	University of Dar es Salaam, TZ
Diploma (Credit, Animal Production)	1979-1981	Uyole Agricultural Centre, Mbeya, TZ
Form Six (A-level) Certificate (PCB)	1976-1977	Moshi Secondary School, Kilimanjaro, TZ
Form Four (O-level) Certificate (Science)	1972-1975	Tambaza Secondary School, Dar es Salaam, TZ

### 3. ACADEMIC POSTS HELD AT THE UNIVERSITY OF DAR ES SALAAM

<i>Post</i>	<i>Dates</i>
Tutorial Assistant	April 1986–June 1988
Assistant Lecturer	July 1988–June 1993
Lecturer	July 1993–June 1997
Senior Lecturer	July 1997–June 2002
Associate Professor	July 2002–June 2006
Professor	July 2006–Present

### 4. PREVIOUS EMPLOYMENT

<i>Post</i>	<i>Dates</i>
Livestock Field Assistant	June 1981–June 1983

### 5. ADMINISTRATIVE POSTS HELD AT THE UNIVERSITY OF DAR ES SALAAM

- 1997–2000: Coordinator, Faculty of Science Planning Coordination Unit
- 1997–2006: Member, Faculty of Science Board
- 1997–2000: Member, Institute of Marine Sciences Board
- 2000–2003: Member, Library Senate Committee
- 2000–2002: Associate Dean (Administration), Faculty of Science
- 2003–Nov 2006: Dean, Faculty of Aquatic Sciences and Technology
- 2003–Dec 2014: Member, University of Dar es Salaam Senate
- 2006 Dec 5<sup>th</sup>–2014 Dec 4<sup>th</sup>: Deputy Vice Chancellor (Planning, Finance and Administration)
- 2015–2021: Member, University of Dar es Salaam (UDSM) Council
- 2015–2021: Member, Student Affairs Committee
- 2015–2021: Member, Appointments Committee
- 2015–2021: Member, Bureau of Council
- 2020–2021: Member, UDSM Staff Disciplinary Appeals Committee

- 2021–To date: Chairman, University of Dar es Salaam Computing Centre Board of Directors

## 6. ADMINISTRATIVE POSTS HELD OUTSIDE THE UNIVERSITY OF DAR ES SALAAM

- 1997–2006: Western Indian Ocean Marine Science Association (WIOMSA) Country Coordinator
- 1998–2002: Facilitator, Mariculture Working Group of the Tanzania Coastal Management Partnership
- 2000–2006: Member, Editorial Board, The African Journal of Tropical Hydrobiology and Fisheries
- 2002–2010: Member, Editorial Board, Western Indian Ocean Journal of Marine Science
- 2002–2006: External Examiner, Department of Fisheries, Moi University, Kenya
- 2003–2008: Member, Board of Directors, Tanzania Fisheries Research Institute
- 2003–2013: Chairman, Mbegani Fisheries Development Centre Advisory Board
- 2003–To date: Chairman, East Africa Water Association (Tanzania Chapter)
- 2004–2006: External Examiner, Department of Natural Resources and Conservation, University of Namibia
- 2004–2008: Chairman, Board of Trustees, Tanzania Marine Parks and Reserves Unit
- 2008–2014: External Examiner, M.Sc. (Hydrobiology) Programme, School of Biological Sciences, University of Nairobi.
- 2008–2019: Chairman, Sea Sense (a marine conservation NGO)
- 2009–To date: Chairman, Tanzania – Ireland Alumni Association
- 2009–2016: Chairman, Board of Directors, Tanzania Fisheries Research Institute
- 2010–2018: Member, Board of Trustees of the International Foundation for Science (IFS), Sweden.
- 2013–2018: Honourable Treasurer, The Tanzania Academy of Sciences (TAAS)
- 2014 Nov–2019 June: Chairman, Ministerial Advisory Board, Drilling & Dam Construction Agency.
- 2014 Dec–2016 May: Executive Secretary, Tanzania Commission for Universities (TCU)
- 2015 Jan–2016 May: Member, Inter-University Council for East Africa (IUCEA) Quality Assurance Committee
- 2016 Dec–2022 Sept: Director General, National Institute for Medical Research (NIMR)
- 2016–To date: Chairman, TWAS Membership Advisory Committee in Biological Systems & Organisms
- 2016–2018: Member, Executive Committee of the Board of Trustees of IFS
- 2016–2019: Champion (Tanzania), Northern Mozambique Channel Initiative
- 2016 Dec–2022 Sept: Commissioner, East African Health Research Commission (of the East African Community)
- 2016–2018: Member, Ifakara Health Institute Board of Trustees
- 2017–2020: Member and Vice Chairman, National Environmental Trust Fund
- 2017–To date: Chairman, Young Scientists Tanzania
- 2017–2019: Member, University of Dodoma Senate
- 2017–2022: Member, University of Dodoma (UDOM) Council
- 2017–2022: Member, Western Indian Ocean Marine Science Association (WIOMSA) Board of Trustees
- 2018–2022: Treasurer, WIOMSA
- 2018–To date: President, Tanzania Academy of Sciences
- 2018–2022: Chairman, Ifakara Health Institute Board of Governors
- 2019–2022: Member, UDOM Health Board
- 2019–2022: Member, UDOM Planning, Finance, Estates and Investments Committee
- 2020–To date: Member, Zanzibar Health Research Institute Board of Directors
- 2021–2022: Member, UDOM Staff/Student Disciplinary Appeals Committee
- 2021–To date: Chairman, Kampala International University in Tanzania (KIUT) Council
- 2021–To date: Chairman, Tanzania Fisheries Corporation (TAFICO)
- 2022 Dec–To date: Member, Independent Biodiversity and Livelihoods Advisory Committee (IBLAC) of the East African Crude Oil Pipeline (EACOP)
- 2023 Jan–To date: Chancellor, Kampala International University in Uganda
- 2023–To date: Chairman, Board of Governors, The College of African Wildlife Management (CAWM), Mweka

## 7. PROFESSIONAL AFFILIATION

Society	Dates (Since)
Wildlife Conservation Society of Tanzania	1989
Network of Tropical Fisheries Scientists (Manila)	1990
Asian Fisheries Society (Manila, Philippines)	1990
Western Indian Ocean Marine Science Association (WIOMSA)	1995
Network of Tropical Aquaculture Scientists (Manila)	1996
The Tanzania Academy of Sciences (Fellow)	2013
The African Academy of Sciences (Fellow)	2013
The World Academy of Sciences (Fellow)	2014

## 8. AWARDS

- Council and Senate recognition of the outstanding service and significant leadership as the Deputy Vice Chancellor (Planning, Finance and Administration) of the University of Dar es Salaam for the period 2006-2014 (Certificate of Appreciation)
- Best Worker (Academic), University of Dar es Salaam, 2008
- WIOMSA recognition of outstanding contribution to advancement in the knowledge of marine and coastal science in the Western Indian Ocean region, 2007 (Certificate and trophy)
- University Council recognition of contribution and support to the Institutional Transformation Programme, 2004 (Certificate)
- Irish Government Scholarship: 1991-1995 (Ireland)
- Commonwealth Scholarship: 1987-1989 (Canada)
- University Prize: Best student in Final Year Degree Examinations, 1986
- Minister of Education Prize: Best Final Year Student in the Faculty of Science, 1986
- Double-Cola Prize: Best Final Year Student with Overall Performance in the Faculty, 1986
- Zoology Prize: Best Second Year Student in Zoology Practicals, 1985
- Vice Chancellor's Prize: Best Student in First Year Degree Examinations, 1984

## 9. RESEARCH PROJECTS

- 9.1. Some Aspects of the Biology of Silver-bellies Fish *Gerres oyena* Forskal (Perciformes: Gerreidae). Undergraduate Research Project (1986).
- 9.2. Age and Growth of the Mosshead Sculpin *Clinocottus globiceps* Girard with an Assessment of its Role in Production of Tidepool Fishes. M.Sc. Research Project (1988-1989).
- 9.3. Studies on Some Quantitative Aspects of Growth, Genetics and Reproduction of the European Abalone (*Ormer*) *Haliotis tuberculata* Linnaeus Under Aquaculture Conditions. Ph.D. Research Project (1991-1995).
- 9.4. Socio-economic root causes of biodiversity loss in Tanzania: the case of mangrove forests in the three major deltas of Rufiji, Ruvu and Wami river deltas. Research project commissioned by WWF-US, Washington DC (1998).
- 9.5. A preliminary investigation for an integrated, community-based approach to conservation and restoration on marine ecosystems along the Dar es Salaam coast. Research project commissioned by African Development Foundation, Dar es Salaam (1999).
- 9.6. Investigation of mariculture options in Mafia Island Marine Park. Research commissioned by WWF Tanzania Programme Office, Dar es Salaam (2001).
- 9.7. An analysis of smallholder opportunities in fisheries, coastal and related enterprises in the floodplain and delta areas of the Rufiji River, Tanzania. Research project commissioned by the IUCN supported Rufiji Environment Management Project (2002).
- 9.8. Research Project on experimental spat collecting of the edible oyster, *Saccostrea cucullata* Born (Bivalvia) in the Kunduchi Creek, Dar es Salaam (1999-2000). Funded by Sida/SAREC.

- 9.9 Multidisciplinary research project on environmental studies of Mtoni mangrove ecosystem, Dar es Salaam (2003-2004). Funded by NUFFIC, The Netherlands.
- 9.10 Research Programme on Sustainable Use of Dryland Biodiversity (RPSUD) project entitled "Cyanobacteria composition, distribution and toxin production in Momela Lakes, Arusha, Tanzania." 2005-2009. Funded by Sida/SAREC.
- 9.11 Research Project on the dynamics and evaluation of finger ponds in East African freshwater wetland ecotones using appropriate fish production techniques. Status: 2001-2006. Funded by the European Union.
- 9.12 Research Project on the use of peri-urban mangrove forests as filters and potential phytoremediators of domestic sewage in East Africa (PUMPSEA). 2005-2009. Funded by the European Union.
- 9.13 Research Project on Sea cucumbers, a poorly understood but important coastal resource: national and regional analyses to improve management. 2006-2009. Funded by Sida/SAREC (MASMA).
- 9.14 Research Project on evaluation of different stocking densities for commercial production of Nile tilapia (*Oreochromis niloticus*), with Ningu (*Labeo victorianus*) and African catfish (*Clarias gariepinus*) in earthen ponds. 2006-2010. Funded by Sida/SAREC (VicRes).
- 9.15 Importance of mangroves and seagrass beds as nurseries for coral reef fishes in Tanzania. 2006-2010. Research funded by the Netherlands Foundation for the Advancement of Tropical Research (WOTRO).
- 9.16 Poverty eradication through aquaculture. Research funded by the Leverhulme Trust through the University of Newcastle upon Tyne, UK. 2010-2012.
- 9.17 Water quality management and pollution control strategy in Tanzania. Consultancy work for SMEC International who were contracted by the Ministry of Water and Irrigation (2010).
- 9.18 Implementing an ecosystem approach to fisheries (EAF) in small-scale tropical marine fisheries. Research work funded by EU. 2012-2014.

## **10 TEACHING/SUPERVISION**

### **10.9 Teaching**

Postgraduate supervision: 1 Ph.D. candidate, 1 M.Sc. candidate.

## **UNDERGRADUATE DISSERTATIONS**

### **10.10 Supervised and examined:**

1. Kajja, Y.S.A.M, 1996. Studies on aspects of homing in the chiton *Acanthopleura spinigera* (Sow) (Mollusca: Polyplacophora). Final year (B.Sc.) Marine Biology project report. 32 pp.
2. Mbije, N.E.J., 1996. Study on the abundance and diversity of benthic fauna at Ocean Road and Harbour seashores along Dar es Salaam coast. Final year (B.Sc.) Marine Biology project report. 37 pp.
3. Teikwa, E., 1996. The distribution of marine life at Ocean Road and Oyster Bay seashores along the Dar es Salaam coast. Final year (B.Sc.) Marine Biology project report. 40 pp.
4. Lamtane, H.A., 1997. Some aspects of the ecology of Oyster Bay rocky cliff. Final year (B.Sc.) Marine Biology project report. 41 pp.
5. Lukanga, S.A., 1997. Study on the abundance and diversity of seagrass species and associated macrofauna at Kunduchi and Ocean Road seashores along Dar es Salaam coast. Final year (B.Sc.) Marine Biology project report. 33 pp.

6. Moshia, E.J., 1998. The distribution of macrobenthos in the mangroves of Kunduchi Creek. Final year (B.Sc.) Marine Biology project report. 32 pp.
7. Vatta, L.J., 1998. Food and feeding habits of *Clarias mossambicus* (Pisces: Clariidae) from Mindu Dam in Morogoro region. Final year (B.Sc.) Marine Biology project report. 57 pp.
8. Abubakar, K.M., 1999. Comparative biodiversity between Kunduchi and Mtoni mangrove habitats with special emphasis to macrobenthos. Final year (B.Sc.) Marine Biology project report. 37 pp.
9. Chando, C. 1999. An ecological assessment of seagrasses and associated biota off Silversands Hotel, Kunduchi, Dar es Salaam. Final year (B.Sc.) Marine Biology project report. 45 pp.
10. Musiba, M.J., 1999. Investigations on the diet and growth of Nile perch, *Lates niloticus* from Speke Gulf, Lake Victoria. Final year (B.Sc.) Marine Biology project report. 34 pp.
11. Swilla, J.D., 2000. Length-weight relationship, fecundity and feeding habits of *Lethrinus lentjan* along the Dar es Salaam coastal waters. Final year (B.Sc.) Marine Biology project report. 41 pp.
12. Ideva, R.J., 2001. Aquaculture potential for tilapia farming in Kibaha District. Final year (B.Sc.) Marine Biology project report. 49 pp.
13. Mbonde, A., 2002. A review of the status of aquaculture development in Tanzania and experimental studies on tilapia stocking densities and an integrated system. Final year (B.Sc.) Marine Biology project report. 37 pp.
14. Maskini, P., 2005. Aspects of benthic ecology of the Kunduchi Beach Hotel foreshore following the building up of sand bar. Final year (B.Sc.) Aquatic Science project report. 38 pp.
15. Limbu, S., 2007. Effect of domestic sewage on survival and growth of the snail *Terebralia palustris* (Linnaeus 1758) in planted mangroves at Kunduchi, Dar es Salaam. Final year (B.Sc.) Fisheries and Aquaculture project report. 24 pp.
16. Mpemba, T.G., 2007. Comparative study in abundance and diversity of benthic macrofauna between Mjimwema and Ocean Road beaches. Final year (B.Sc.) Aquatic Environmental Science and Conservation project report. 13 pp.
17. Robert, A., 2007. Comparative study on the abundance and distribution of benthic macrofauna at Ocean Road and Oysterbay beaches. Final year (B.Sc.) Fisheries and Aquaculture project report. 20 pp.
18. Joseph, M., 2012. Distribution and abundance of benthic macrofauna at Oysterbay rocky shore. Final year (B.Sc.) Aquatic Environmental Science and Conservation project report. 39 pp.

## POSTGRADUATE THESES

### 10.11 Supervised and Examined:

#### M.Sc. work

1. Mhithu, H.A., 1997. The reproductive biology of the squid, *Sepioteuthis lessoniana* (Lesson, 1830) in the coastal waters of Zanzibar. M.Sc. Thesis, University of Dar es Salaam. 100 pp.
2. Mgimwa, F.A., 1998. Dynamics of dema trap finfish catches in the coastal waters of Zanzibar, Tanzania. M.Sc. Thesis, University of Dar es Salaam. 103 pp.
3. Mlay, A.P., 1999. Ecology of the intertidal zone of selected sandy/muddy shores in the Dar es Salaam area. M.Sc. Thesis, University of Dar es Salaam. 171 pp.
4. Nzali, L., 1999. Recruitment patterns of Scleractinian corals along the Tanga coastline. M.Sc. Thesis, University of Dar es Salaam. 106 pp.

5. Lugendo, B.R., 2000. Distribution and ecology of intertidal seagrass communities at Ocean Road and Kunduchi areas, Dar es Salaam. M.Sc. Thesis, University of Dar es Salaam. 144 pp.
6. Suleiman, M., 2000. Nutrient dynamics in the sediments and water column on sewage polluted and non-polluted coral reefs on selected sites on the west coast of Unguja Island. M.Sc. Thesis, University of Dar es Salaam. 72 pp.
7. Teikwa, E.D., 2002. Reproductive biology and fishery potential of penaeid prawns of Bagamoyo coastal waters. M.Sc. Thesis, University of Dar es Salaam. 129 pp.
8. Kuguru, B.L., 2002. Distribution and abundance of the Corallimorpharia (Cnidaria: Anthozoa) on selected reefs around Zanzibar. M.Sc. Thesis, University of Dar es Salaam. 121 pp.
9. Yahya, S., 2003. Ecology and reproductive biology of *Octopus cyanea* in Zanzibar waters. M.Sc. Thesis, University of Dar es Salaam.
10. Kimirei, I., 2005. Variability in pelagic fish catches and the physico-chemical parameters in Kigoma Bay, Lake Tanganyika. M.Sc. Thesis, University of Dar es Salaam. 157 pp.
11. Frederk, G., 2005. Influence of sewage pollution at Ocean Road beach on the marine environment. M.Sc. Dissertation, University of Dar es Salaam. 91 pp.
12. Chingege, J.H.H., 2005. Influence of sewage pollution on seagrasses and seaweeds at Ocean Road beach, Dar es Salaam. M.Sc. Dissertation, University of Dar es Salaam. 83 pp.
13. Elias, J., 2006. Abundance and species composition of crabs and mollusks in different mangrove stands at Kunduchi, Dar es Salaam. M.Sc. Dissertation, University of Dar es Salaam. 75 pp.
14. Waya, R.K., 2008. Zooplankton dynamics in Shirati Bay, Lake Victoria with special emphasis on the copepods. M.Sc. Thesis, University of Dar es Salaam. 163 pp.
15. Sallema, R.E., 2008. Population distribution and differentiation of mangrove and rocky shore gastropods (*Littoraria* spp.) in Dar es Salaam, Mnazi Bay-Ruvuma Estuary and Inhaca Island in Mozambique. M.Sc. Thesis, University of Dar es Salaam. 150 pp.
16. Mahenge, J., 2009. Growth and reproduction of palaemonid shrimp *Palaemon concinnus* and morphometric differentiation of the sesarmid crab *Perisesarma guttatum* selected mangroves along the coast of Tanzania. M.Sc. Thesis, University of Dar es Salaam. 131 pp.
17. Ngaiza, S.J., 2009. The impact of resurgence of haplochromine species on *Rastrineobola argentea* population in Mwanza Gulf, Lake Victoria - Tanzania. 73 pp.

#### Ph.D. work

1. Chande, A.I., 1999. The biology and fishery potential of the crab *Portunus pelagicus* (Linnaeus, 1766) along the coast of Dar es Salaam. Ph.D. Thesis, University of Dar es Salaam. 289 pp.
2. Kamukuru, A.T., 2003. Effect of fishing on growth and reproduction of the blackspot snapper, *Lutjanus fulviflamma* (Pisces: Lutjanidae) on reefs of Mafia Island, Tanzania. Ph.D. Thesis, University of Dar es Salaam. 274 pp.
3. Mhando, C.A., 2003. Enhanced coral larval settlement and coral transplantation as means of promoting coral replenishment in Tanzania. Ph.D. Thesis, University of Dar es Salaam. 285 pp.
4. Mnembuka, B.V., 2003. Use of Pigeon peas (*Cajanus cajan*) as a protein supplement for Tilapia (*Oreochromis niloticus*). Ph.D. Thesis, University of Dar es Salaam. 182 pp.

5. Mwita, C.J., 2006. Studies on the determinants of the parasites' community structure of the clariid fishes in Lake Victoria. Ph.D. Thesis, University of Dar es Salaam 197 pp.
6. Lugendo, B.R., 2007. Habitat utilization by fish and the structure of a mangrove food web. Ph.D. Thesis, Radboud University, The Netherlands.
7. Wetengere, K., 2008. Economic factors critical to adoption of fish farming technology. Ph.D. Thesis, Open University of Tanzania. 246 pp.
8. Lamtane, H.A., 2008. Fish stocks and comparative yields from East African self-stocked fingerponds. Ph.D. Thesis, University of London (King's College). 246 pp.
9. Mwandya, A.W, 2009. Fish community patterns in Tanzanian mangroves. Ph.D. Thesis, Stockholm University, Sweden.
10. Yahya, S., 2011. Aspects of bleaching, habitat structure and management effects on coral reef fish communities. Ph.D. Thesis, Stockholm University, Sweden.
11. Kayanda, R., 2012. Discrimination of major fish species encountered in acoustic surveys of Lake Victoria. Ph.D. Thesis, University of Dar es Salaam. 208 pp.
12. Kimirei, I.A., 2012. Importance of mangroves and seagrass beds as nurseries for coral reef fishes in Tanzania. Ph.D. Thesis, Radboud University, The Netherlands. 202 pp.
13. Shoko, A.P., 2013. Aquaculture of Nile tilapia (*Oreochromis niloticus* Linnaeus, 1758) with an assessment of its economic benefits in the Lake Victoria basin, Tanzania. Ph.D. Thesis, University of Dar es Salaam. 218 pp.
14. Igulu, M.M., 2014. Migration and habitat selection by tropical reef fishes. Ph.D. Thesis, Radboud University, The Netherlands. 152 pp.
15. Mwakosya, C.A., 2016. Abundance, distribution and reproductive biology of two selected penaeid prawns in Tanzanian waters. Ph.D. Thesis, University of Dar es Salaam. 185 pp.
16. Grayson, J.M., 2016. Genetic stock structure and life history of *Euthynnus affinis* Cantor (1849) and *Scomberomorus commerson* Lacepède (1800) fishes in the northern coastal waters of Tanzania. Ph.D. Thesis, University of Dar es Salaam. 273 pp.
17. Elias, J., 2017. Development of simple and cost-effective bio-monitoring method for assessing water pollution in Tanzanian rivers. PhD Thesis, Nelson Mandela African Institution of Science and Technology. 127 pp.
18. Mmbaga, T.K., 2017. The ecology and management of sea cucumbers in Tanzania. PhD Thesis, University of Dar es Salaam. 215 pp.

#### 10.12 Supervision of Ongoing Postgraduate Work

##### Ph.D. work

Simtoe, A.P. Oceanographic conditions, recruitment and management of penaeid prawns in coastal waters of Bagamoyo, Tanzania. Status: Data analysis and writing-up.

##### M.Sc. work

Ulega, A.H. Contribution of marine fisheries in Tanzanian industrialization and livelihoods improvements. Status: Writing-up completed; draft thesis under review. (Open University of Tanzania)

#### 10.13 Examined as External Examiner

##### B.Sc. work

I served as an External Examiner for the B.Sc. programme (Aquatic Sciences and Fisheries) at the following universities:

- 2002–2006: Department of Fisheries, Moi University, Kenya
- 2004–2006: Department of Natural Resources and Conservation, University of Namibia

### **M.Sc. work**

I served as an External Examiner for the M.Sc. Hydrobiology and M.Phil. Fisheries programmes, respectively at the University of Nairobi, Kenya from 2008 to 2014 and Moi University, Kenya (2002-2006).

I also examined the following theses/dissertations at various universities as follows:

1. P.E. Nsinda, 2002. The impact of net sizes on the status of Dagaa (*Rastrineobola argentea*) stocks from Tanzania waters of Lake Victoria. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
2. R. Rugadya, 2003. The impact of mirror carp (*Cyprinus carpio* L. on aquatic environment. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
3. E. Rukuunya, 2003. The effect of sunken water hyacinth biomass on dissolved oxygen and food of major inshore species in northern Lake Victoria, Uganda. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
4. R. Mugo, 2003. A comparative study on the growth and economic performance of Nile tilapia (*Oreochromis niloticus*) fed on maize bran, wheat bran, and rice bran in fertilized ponds. M.Sc. Dissertation, Moi University, Eldoret, Kenya.
5. M.O. Mohammed, 2003. Fish catch composition and biology of *Siganus sutor* in the Malindi/Kilifi inshore waters. M.Sc. Dissertation, Moi University, Eldoret, Kenya.
6. A.M. Taabu, 2004. Variation in catch composition of *Rastrineobola argentea* Pellegrin ("mukene") fishery in relation to distance from shore on Lake Victoria (Uganda). M.Sc. Dissertation, Makerere University, Kampala, Uganda.
7. S.K. Macharia, 2004. Comparative study of hatching rates of African catfish (*Clarias gariepinus* Burchell 1822) eggs on different substrates and the survival of hatchlings to fingerlings fed on three feed types. M.Sc. Thesis, Moi University, Eldoret, Kenya.
8. D.N. Oenga, 2005. The Introduction history and induced spawning of naturalized largemouth bass *Micropterus salmoides* (Lacepede), Kenya. M.Sc. Thesis, Moi University, Eldoret, Kenya.
9. F.M. Mwonjoria, 2006. Fish and benthic communities as indicators of mangrove ecosystem recovery in Gazi Bay – Kenya. M.Sc. Thesis, University of Nairobi, Nairobi, Kenya.
10. O.P. Odhiambo, 2006. Population aspects of sea cucumbers (Echinodermata: Holothuroidea) in protected and unprotected reefs along the southern Kenya coast. M.Sc. Thesis, University of Nairobi, Nairobi, Kenya.
11. R. Nalukwago, 2009. The fish species composition and population characteristics of *Oreochromis niloticus* in Lake Kijanebalola. M.Sc. Dissertation, Makerere University, Kampala, Uganda.
12. G.H. Nicholson, 2014. Towards understanding the effects of stocking density on farmed South African abalone, *Haliotis midae*. M.Sc. Thesis, Rhodes University, Grahamstown, South Africa.
13. J. Lusana, 2018. High-throughput DNA metabarcoding and community structure of ichthyoplankton in the Oujiang River mouth and Yueqing Bay. M.Sc. Thesis, Zhejiang Ocean University, Zhejiang, China.

### **Ph.D. work**

I examined the following Ph.D. theses/dissertations:

1. M. Njiru, 2002. Feeding ecology and population characteristics of Nile tilapia, *Oreochromis niloticus* (L.) in Lake Victoria, Kenya. D.Phil. Thesis, Moi University, Eldoret, Kenya.
2. P.O. Raburu, 2003. Water quality and the status of aquatic macro-invertebrates and ichthyofauna in River Nyando, Kenya. D.Phil. Thesis, Moi University, Eldoret, Kenya.



3. J.O. Okaronon, 2003. Studies into the distribution and abundance of *Lates niloticus* (L.) and *Oreochromis niloticus* (L.) in Lake Victoria. Ph.D. Dissertation, Makerere University, Kampala, Uganda.
4. D. Mbabazi, 2005. Trophic characterization of the dominant fishes in the Victoria and Kyoga basins. Ph.D. Dissertation, Makerere University, Kampala, Uganda.
5. E.N. Kimani, 2005. The populations, reproduction, settlement and growth patterns of pearl oysters in Kenya. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
6. D.O. Sigana, 2009. The distribution and biology of Mugilidae from Kilifi, a tropical mangrove creek on the Kenya coast. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
7. M.A. Kyalo, 2009. Response of benthic fauna to mangrove degradation and restoration in Gazi Bay – Kenya. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
8. A.G. Kateka, 2010. Co-management challenges in the Lake Victoria fisheries: A context approach. Ph.D. Dissertation, Sodertons University/Stockholm University, Sweden. (I participated as an Opponent during the defence held on 11<sup>th</sup> February 2010).
9. G.M. Kivengea, 2014. Fishery, reproductive and feeding biology of common octopus *Octopus vulgaris* (Curvier, 1797) on the Kenyan South Coast. Ph.D. Thesis, University of Nairobi, Nairobi, Kenya.
10. A.G. Locham, 2016. Spatial variation in life history traits of the marbled parrotfish, *Leptoscarus vaigiensis* (Quoy and Gaimard 1824) in coastal Kenya. Ph.D. Thesis, Jomo Kenyatta University of Agriculture and Technology, Nairobi, Kenya.
11. G.B.M. Okemwa, 2017. Spatio-temporal dynamics of the marine aquarium fishery and recruitment of reef fishes in coastal Kenya. Ph.D. Thesis, University of Eldoret, Eldoret, Kenya.
12. E. Kimakwa, 2022. The application of biological aspects in the management of tuna and tuna-like species in the Kenyan waters. Ph.D. Thesis, University of Nairobi, Kenya.

## 11 SELECTED SHORT COURSES, CONFERENCES, SEMINARS, AND WORKSHOPS

- Participated in a “Teaching Methodology Course”, organized by University Teaching and Learning Improvement Programme (UTLIP), University of Dar es Salaam, 16–27 June 1986.
- Participated in a “Workshop on Waterfowl and Wetland Management Workshop” organized by International Waterfowl and Wetlands Research Bureau, Mweya and Kampala, Uganda, 3–12 March 1990.
- Participated in a “Computer Sensitization Course”, organized by University Teaching and Learning Improvement Programme (UTLIP), University of Dar es Salaam, 18–25 October 1990.
- Attended a series of lectures and practicals in Aquaculture at the Shellfish Research Laboratory, University College Galway, October 1991 to March, 1992.
- Participated in a "Workshop and Training Course on the Biology, Management, Cultivation and Stock Enhancement of Lobsters (*Homarus* spp.)", Galway, Ireland, 18–22 April 1994.
- Participated in "Advanced Technologies for Aquaculture Development Course", University College Galway, Ireland, 7–9 November 1994.
- Participated in a “Workshop on Research Methods for Phytoplankton Primary Production and Bacterioplankton Secondary Production”, organized by Sida Marine Science Program, Kenya Marine Fisheries Research Institute, Mombasa, Kenya, 18–21 March 1996.
- Participated in a Coral Reefs of the Western Indian Ocean Workshop, Mombasa 25 February to 1 March 1997.
- Attended the Mariculture Workshop, Dar es Salaam 4–12 March 1998.
- Attended the First National Orientation Training Course on Environmental Impact Assessment, organized by the Institute of Resource Assessment, University of Dar es Salaam and International Institute for Environment and Development, UK, 23–31 March 1998.
- Participated in a study tour to the Marine Protected Areas in USA (Cumberland Island, Georgia; Florida Keys;

- US Virgin Islands), 31 July to 17 August 1999.
- Attended a short course on “Planning and Management for Sustainable Coastal Aquaculture Development” at Asian Institute of Technology, Thailand, 12th June to 7th July 2000.
  - Attended a short course on “Marine Shrimp and Finfish Seed Production” at Asian Institute of Technology, Thailand, 10th July to 4th August 2000.
  - Participated in East African Marine Ecoregion Visioning Workshop, 23–28 April 2001.
  - Attended Second WIOMSA Scientific Symposium entitled “Advances in Marine Sciences in East Africa: Setting the Research Agenda”, Dar es Salaam, 22–26 October 2001.
  - Participated in Scientific Symposium on Environment, University of Dar, 23–26 September 2002.
  - Participated in “A Training Course on the Integration of ICT in Teaching and Learning”, organized by the Centre for Continuing Education, University of Dar es Salaam, 14–18 July 2003.
  - Participated in a Workshop on “Marine Biodiversity in Sub-Saharan Africa, Cape Town, South Africa, 23–26 September 2003.
  - Attended Third Western Indian Ocean Marine Science Association (WIOMSA) Scientific Symposium entitled “Advances in Marine Science in Eastern Africa: Multi/trans-disciplinary Research for Improved Management of Resources”, Maputo, Mozambique, 12–18 October 2003.
  - Attended a Symposium entitled “Ecohydrology and Physical Fish Habitat Modifications in Lakes”, Mondsee, Austria, 27–28 November 2003.
  - Participated in Southern Africa Coastal Management (COASTMAN) Workshop and Short Course “Resolving Coastal Conflicts in an Intercultural Context”, organized by INWENT (Capacity Building International, Germany) and University of Kwazulu-Natal, Maputo, Mozambique, 21–25 February 2005.
  - Completed a “Research Management Training” course conducted at the University of Dar es Salaam by The Society of Research Administration International, USA, 1–5 August 2005.
  - Participated in Southern Africa Coastal Management (COASTMAN) Training of Trainers Workshop “How to Implement Community-Based Coastal Zone Management Successfully”, organized by INWENT (Capacity Building International, Germany), Walvis Bay, Namibia, 5–10 December 2005.
  - Participated in “Advanced Leadership Training Workshop for Marine Environmental Managers in the Western Indian Ocean”, organized by ORI, UNEP and GEF, Durban, Republic of South Africa, 2–6 October 2006.
  - Participated in Southern Africa Coastal Management (COASTMAN) Training of Trainers Workshop “ICZM and the concept of marine/coastal protected areas – how to deal with conflicting claims regarding the use of coastal resources”, Cape Town, South Africa, 20–24 November 2006.
  - Participated in a short course on “Management of Higher Education Institutions”, at the Galilee International Management Institute, Israel, 16–27 June 2011.
  - Participated in a workshop on “Mastering Board Meetings: Effective and Strategic Leadership” organized by Tanzania Global Learning Agency and VINSYS (India), Dubai, United Arab Emirates, 10–14 August 2015.
  - Participated in a training session on “Essentials of Public Leadership” organized by Uongozi Institute, Dar es Salaam, 28-29 April 2022.

## 12 PUBLICATIONS

### 12.9 Publications in Refereed Journals

- 12.9.1 Mgaya, Y.D., 1992. Density and production of *Clinocottus globiceps* and *Oligocottus maculosus* (Cottidae) in tidepools at Helby Island, British Columbia. *Marine Ecology Progress Series* 85: 219-225.
- 12.9.2 Machiwa, J.F., Mgaya, Y.D. and Ndaro, S.G.M., 1992. A preliminary consideration of the role of mangroves in nutrient and organic fluxes in the Rufiji delta system, Tanzania. *East Africa Journal of Sciences* 1B(1): 15-27.
- 12.9.3 Mgaya, Y.D. and Mercer, J.P., 1994. A review of the biology, ecology, fisheries and mariculture of the abalone, *Haliotis tuberculata* Linnaeus 1758 (Gastropoda: Haliotidae). *Biology and Environment: Proceedings of the Royal Irish Academy* 94B(3): 285-304.
- 12.9.4 Mgaya, Y.D., 1995. Age and growth analysis of the mosshead sculpin *Clinocottus globiceps* Girard from Helby Island, British Columbia. *Journal of Applied Ichthyology* 11(1-2): 50-59.

- 12.9.5 Mgaya, Y.D., 1995. Synopsis of biological data on the European abalone (ormer), *Haliotis tuberculata* Linnaeus 1758 (Gastropoda: Haliotidae). *FAO Fisheries Synopsis* 156: 1-28.
- 12.9.6 Mgaya, Y.D. and Mercer, J.P., 1995. The effects of size grading and stocking density on growth performance of juvenile abalone, *Haliotis tuberculata* Linnaeus. *Aquaculture* 136: 297-312.
- 12.9.7 Mgaya, Y.D. and Mercer, J.P., 1995. Characterisation of size variability and the effect of intraspecific competition on the development of size variation in the abalone, *Haliotis tuberculata* Linnaeus. *Biology and Environment: Proceedings of the Royal Irish Academy* 95B(2): 77-86.
- 12.9.8 Mgaya, Y.D., Gosling, E.M., Mercer, J.P. and Donlon, J., 1995. Genetic variation at three polymorphic loci in wild and hatchery stocks of the abalone *Haliotis tuberculata* Linnaeus. *Aquaculture* 136: 71-80.
- 12.9.9 Mgaya, Y.D., 1997. Global warming: a threat to human societies and natural ecosystems. *Tanzania Journal of Science* 22&23: 65-74.
- 12.9.10 Nzali, L.M., Johnstone, R. and Mgaya, Y.D., 1998. Factors affecting coral recruitment on a nearshore reef in Tanzania. *Ambio* 27(8): 717-722.
- 12.9.11 Semesi, A.K., Mgaya, Y.D., Muroke, M.H.S., Francis, J., Mtolera, M. and Msumi, G., 1998. Coastal resources utilization and conservation issues in Bagamoyo. *Ambio* 27(8): 635-644.
- 12.9.12 Mgaya, Y.D., 2000. A quantitative genetic analysis of juvenile growth for the abalone *Haliotis tuberculata* Linnaeus. *Recent Advances in Marine Biotechnology (Aquaculture)* 4A: 59-73.
- 12.9.13 Mgaya, Y.D., 2001. Experimental spat collecting of the edible oyster, *Saccostrea cucullata* Born (Bivalvia) in the Kunduchi Creek, Dar es Salaam. *Tanzania Journal of Science* 27A: 67-81.
- 12.9.14 Hartnoll, R.G., Cannicci, S., Emmerson, W.D., Fratini, S., Macia, A., Mgaya, Y., Porri, F., Ruwa, R.K., Shunula, J.P., Skov, M.W., Vannini, M., 2002. Geographic trends in mangrove crab abundance in East Africa. *Wetlands Ecology and Management* 10: 203-213.
- 12.9.15 Guard, M. and Mgaya, Y.D., 2002. The artisanal fishery for *Octopus cyanea* Gray (1849) in Tanzania. *Ambio* 31(7-8): 528-536.
- 12.9.16 Chande, A.I. and Mgaya, Y.D., 2003. The fishery of *Portunus pelagicus* and species diversity of portunid crabs along the coast of Dar es Salaam, Tanzania. *Western Indian Ocean Journal of Marine Science* 2(1): 75-84.
- 12.9.17 Teikwa, E.D. and Mgaya, Y.D., 2003. Abundance and reproductive biology of Penaeid prawns of Bagamoyo coastal waters, Tanzania. *Western Indian Ocean Journal of Marine Science* 2(2): 117-126.
- 12.9.18 Kamukuru, A.T. and Mgaya, Y.D., 2004. The food and feeding habits of blackspot snapper, *Lutjanus fulviflamma* (Pisces: Lutjanidae) in shallow waters of Mafia Island, Tanzania. *African Journal of Ecology* 42(1): 49-58.
- 12.9.19 Kuguru, B.L., Mgaya, Y.D., Öhman, M.C., and Wagner, G.M., 2004. The reef environment and competitive success in the Corallimorpharia. *Marine Biology (Berlin)* 145: 875-884.
- 12.9.20 Chande, A.I. and Mgaya, Y.D., 2004. Food habits of the blue swimming crab *Portunus pelagicus* along the coast of Dar es Salaam. *Western Indian Ocean Journal of Marine Science* 3(1): 37-42.
- 12.9.21 Kamukuru, A.T. and Mgaya, Y.D., 2004. Effects of exploitation on reproductive capacity of blackspot snapper, *Lutjanus fulviflamma* (Pisces: Lutjanidae) in Mafia Island, Tanzania. *African Journal of Ecology* 42: 270-280.
- 12.9.22 Kamukuru, A.T., Mgaya, Y.D. and Öhman, M., 2004. Evaluating a marine protected area in a developing country: Mafia Island Marine Park, Tanzania. *Ocean and Coastal Management* 47(7-8): 321-337.

- 12.9.23 Mmbaga, T.K. and Mgaya, Y.D., 2004. Sea cucumber fishery in Tanzania: Identifying the gaps in resource inventory and management. *FAO Fisheries Technical Paper* 463: 193-203.
- 12.9.24 Kamukuru, A.T. Hecht, T. and Mgaya, Y.D., 2005. Effects of exploitation on age, growth and mortality of the blackspot snapper, *Lutjanus fulviflamma* (Lutjanidae) in Mafia Island, Tanzania. *Journal of Fisheries Management and Ecology* 12: 45-55.
- 12.9.25 Lugendo, B.R., Pronker, A., Cornelissen, I., de Groene, A., Nagelkerken, I., Dorenbosch, M., der Velde, G., and Mgaya, Y.D., 2005. Habitat utilisation by juveniles of commercially important fish species in a marine embayment in Zanzibar, Tanzania. *Aquatic Living Resources* 18: 149-158.
- 12.9.26 Lugomela, C., Pratap, H.B. and Mgaya, Y.D., 2006. Cyanobacteria blooms—a possible cause of mass mortality of Lesser Flamingos in Lake Manyara and Lake Big Momela, Tanzania. *Harmful Algae* 5: 534-541.
- 12.9.27 Lugendo, B.R., Nagelkerken, I., der Velde, G., and Mgaya, Y.D., 2006. The importance of mangroves, mud/sand flats and seagrass beds as feeding areas for juvenile fishes in Chwaka Bay, Zanzibar: gut content and stable isotope analysis. *Journal of Fish Biology* 69: 1639-1661.
- 12.9.28 Kimirei, I.A. and Mgaya, Y.D., 2006. Assessment of the status of *Lates stappersii* (Centropomidae) stock in lift-net fishery in Lake Tanganyika, Kigoma, Tanzania. *Tanzania Journal of Science* 32(2): 1-12.
- 12.9.29 Mwita, C.J., Nkwengulila, G. and Mgaya, Y.D., 2006. Lake Victoria parasites of clariid fishes 18S ribosomal nucleotide sequences. GeneBank, Acc. No. DQ813444-DQ813465. In: [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov).
- 12.9.30 Mwita, C.J., Nkwengulila, G. and Mgaya, Y.D., 2006. Lake Victoria parasites of clariid fishes cyt. b.nucleotide sequences. GeneBank, Acc. No. DQ646345-DQ646374. In: [www.ncbi.nlm.nih.gov](http://www.ncbi.nlm.nih.gov).
- 12.9.31 Conand, C., Muthiga, N., Aumeeruddy, R., De La Torre Castro, M., Frouin, P., Mgaya, Y., Mirault, E., Ochiewo, J., and Rasolofonirina, R., 2006. A three-year project on sea cucumbers in the southwestern Indian Ocean: National and regional analyses to improve management. *SPC Beche-de-mer Information Bulletin* No. 23: 11-15.
- 12.9.32 Lugendo, B.R., Nagelkerken, I., Jiddawi, N., Mgaya, Y.D. and van der Velde, G., 2007. Fish community composition of a tropical non-estuarine embayment in Zanzibar, Tanzania. *Fisheries Science* 73: 1213-1223.
- 12.9.33 Lugendo, B.R., Nagelkerken, I., Kruitwagen, G., van der Velde, G. and Mgaya, Y.D. 2007. The relative importance of mangroves as feeding habitats for fishes: A comparison among mangrove habitats with different settings. *Bulletin of Marine Science* 80(3): 497-512.
- 12.9.34 Lugendo, B.R., de Groene, A., , Cornelissen, I., Pronker, A., Nagelkerken, I., der Velde, G., and Mgaya, Y.D., 2007. Spatial and temporal variation in fish community of a marine embayment in Zanzibar, Tanzania. *Hydrobiologia* 586: 1-16.
- 12.9.35 Kimirei, I.A. and Mgaya, Y.D., 2007. Influence of environmental factors on seasonal changes in clupeid catches in the Kigoma area of Lake Tanganyika. *African Journal of Aquatic Science* 32(3): 291–298.
- 12.9.36 Kaaya, L-T., Lugomela, C. and Mgaya, Y.D., 2007. Spatial and temporal variations in phytoplankton species composition, abundance, biomass and productivity in the selected Momela Lakes, Arusha, Tanzania. *Discovery and Innovation* 19: 25-31.
- 12.9.37 Kimirei, I.A. and Mgaya, Y.D. and Chande, A.I., 2008. Changes in species composition and abundance of commercially important fish population in Kigoma Area, Lake Tanganyika, Tanzania. *Aquatic Ecosystem Health and Management* 11(1): 29-35.
- 12.9.38 Lyimo, T.J., Mvungi, E.F. and Mgaya, Y.D., 2008. Abundance and diversity of seagrass and macrofauna in the inter-tidal areas with and without seaweed farming activities in the east coast of Zanzibar. *Tanzania Journal of*

*Science* 34: 41-52.

- 12.9.39 Mwandya, A.W., Gullström, M., Öhman, M.C., Andersson, M.H. and Mgaya, Y.D., 2009. Fish assemblages in Tanzanian mangrove creek systems influenced by solar salt farm constructions. *Estuarine, Coastal and Shelf Science* 82: 193-200.
- 12.9.40 Mgaya, Y.D. and Lokina, R., 2010. Critical success factors in higher education finance and planning: An institutional perspective. *Sarua Leadership Dialogue Series 2* (2): 53-64.
- 12.9.41 Penha-Lopes, G., Bartolini, F., Limbu, S., Cannicci, S., Mgaya, Y., Kristensen, E. and Paula, J., 2010. Ecosystem engineering potential of the gastropod *Terebralia palustris* (Linnaeus, 1767) in mangrove wastewater wetlands - A controlled mesocosm experiment. *Environmental Pollution* 158: 258-266.
- 12.9.42 Mwandya, A.W., Mgaya, Y.D., Öhman M.C., Bryceson, I., and Gullström, M., 2010. Distribution patterns of the striped mullet (*Mugil cephalus*) in mangrove creeks of Zanzibar, Tanzania. *African Journal of Marine Science* 32(1): 85-93.
- 12.9.43 Kruitwagen, G., Nagelkerken, I., Lugendo, B.R., Mgaya, Y.D. and Wendelaar Bonga, S.E., 2010. Importance of different carbon sources for macroinvertebrates and fishes of an interlinked mangrove-mudflat ecosystem (Tanzania). *Estuarine, Coastal and Shelf Science* 88: 464-472.
- 12.9.44 Mwandya, A.W., Gullström, M., Andersson, M.H., Öhman M.C., Mgaya, Y.D. and Bryceson, I., 2010. Spatial and seasonal variations of fish assemblages in mangrove creek systems in Zanzibar (Tanzania). *Estuarine, Coastal and Shelf Science* 89: 277-286.
- 12.9.45 Oenga, D.N., Mgaya, Y.D., Mbahinzireki, G., Shoko, A.P. and Nyanchiri, E.M., 2010. Evaluation of yields and growth performance of Nile tilapia (*Oreochromis niloticus*), with ningu (*Labeo victorinus*) and African catfish (*Clarias gariepinus*) in earthen ponds in Kenya. *Journal of the National Aquatic Resources Research and Development Agency* 40: 33-47.
- 12.9.46 Kimirei, I.A., Nagelkerken, I., Griffioen, B., Wagner, C. and Mgaya, Y.D., 2011. Ontogenetic habitat use by mangrove/seagrass-associated coral reef fishes shows flexibility in time and space. *Estuarine, Coastal and Shelf Science* 92: 47-58.
- 12.9.47 Igulu, M.M., Nagelkerken, I., Fraaije, R., van Hintum, R., Ligtenberg, H. and Mgaya, Y.D., 2011. The potential role of visual cues for microhabitat selection during the early life phase of a coral reef fish (*Lutjanus fulviflamma*). *Journal of Experimental Marine Biology and Ecology* 401: 118-125.
- 12.9.48 Yahya, S.A.S., Gullström, M., Öhman, M.C., Jiddawi, N.S., Andersson, M.H., Mgaya, Y.D. and Lindahl, U., 2011. Coral bleaching and habitat effects on colonization of reef fish assemblages: an experimental study. *Estuarine, Coastal and Shelf Science* 94: 16-23.
- 12.9.49 Shoko, A.P., Getabu, A., Mwayuli, G. and Mgaya, Y.D., 2011. Growth performance, yields and economic benefits of Nile tilapia *Oreochromis niloticus* and kales *Brassica oleracea* cultured under vegetable-fish culture integration. *Tanzania Journal of Science* 37: 37-48.
- 12.9.50 Hamerlynck, O., Duvail, S., Vandepitte, L., Kindinda, K., Nyingi, D.W., Paul, J.-L., Yanda, P.Z., Mwakalinga, A.B., Mgaya, Y.D. and Snoeks, J., 2011. To connect or not to connect – floods, fisheries and livelihoods in the Lower Rufiji floodplain lakes, Tanzania. *Hydrological Sciences Journal* 56 (8): 1436-1451.
- 12.9.51 Kayanda, R., Everson, I., Munyaho, T. and Mgaya, Y.D., 2012. Target strength measurements of Nile perch (*Lates niloticus*: Linnaeus, 1758) in Lake Victoria, East Africa. *Fisheries Research* 113: 76-83.
- 12.9.52 Slater, M.J., Mgaya, Y.D., Mill, A.C., Rushton, S.P. Stead, S.M., 2013. Effect of social and economic drivers on choosing aquaculture as a coastal livelihood. *Ocean and Coastal Management* 73: 22-30.

- 12.9.53 Kimirei, I.A., Nagelkerken, I., Mgaya, Y.D. and Huijbers, C.M., 2013. The mangrove nursery paradigm revisited: otolith stable isotopes support nursery-to-reef movements by Indo-Pacific fishes. *PLOS ONE* 8(6): 1-8.
- 12.9.54 Kimirei, I.A., Nagelkerken, I., Trommelen, M., Blankers, P., van Hoytema, N., Hoeijmakers, D., Rypel, A.L., Huijbers, C.M. and Mgaya, Y.D., 2013. What drives ontogenetic niche shifts in reef fishes? *Ecosystems* 16: 783-796.
- 12.9.55 Lamtane, H.A., Mgaya, Y.D. and Bailey, R.G., 2013. Effects of water quality, flooding episode and management variables on the yield from self-stocked ponds in lower Rufiji floodplain, Tanzania. *Greener Journal of Agricultural Sciences* 3(5): 320-331.
- 12.9.56 Igulu, M.M., Nagelkerken, I., van der Velde, G. and Mgaya, Y.D., 2013. Mangrove fish production is largely fuelled by external food sources: a stable isotope analysis at the individual, species, and community levels from across the globe. *Ecosystems* 16: 1336-1352.
- 12.9.57 Igulu, M.M., Nagelkerken, I., van der Beek, M., Schippers, M., van Eck, R. and Mgaya, Y.D., 2013. Orientation from open water to settlement habitats by coral reef fish: behavioral flexibility in the use of multiple reliable cues. *Marine Ecology Progress Series* 494: 243-257.
- 12.9.58 Mgana, H.F., Herzig, A. and Mgaya, Y.D., 2014. Diel vertical distribution and life history characteristics of *Tropodiptomus simplex* and its importance in the diet of *Stolothrissa tanganicae*, Kigoma, Tanzania. *Aquatic Ecosystem Health & Management* 17(1): 14-24.
- 12.9.59 Slater, M.J., Mgaya, Y.D. and Stead, S.M., 2014. Perceptions of rule-breaking related to marine ecosystem health. *PLOS ONE* 9(2): 1-8.
- 12.9.60 Shoko, A.P., Limbu, S.M., Mrosso, H.D.L. and Mgaya, Y.D., 2014. A comparison of diurnal dynamics of water quality parameters in Nile tilapia (*Oreochromis niloticus*, Linnaeus, 1758) monoculture and polyculture with African sharp tooth catfish (*Clarias gariepinus*, Burchell, 1822) in earthen ponds. *International Aquatic Research* 6(1): 1-13.
- 12.9.61 Elias, J., Ijumba, J.N., Mgaya, Y.D. and Mamboya, F.A., 2014. Study on freshwater macroinvertebrates of some Tanzanian rivers as a basis for developing biomonitoring index for assessing pollution in tropical African regions. *Journal of Ecosystems* <http://dx.doi.org/10.1155/2014/985389>.
- 12.9.62 Igulu, M.M., Nagelkerken, I., Dorenbosch, M., Grol, M.G.G., Harbone, A.R., Kimirei, I.A., Mumby, P.J., Olds, A.D. and Mgaya, Y.D., 2014. Mangrove habitat use by juvenile reef fish: meta-analysis reveals that tidal regime matters more than biogeographic region. *PLOS ONE* 9(12): e114715. <https://doi.org/10.1371/journal.pone.0114715>.
- 12.9.63 Waya, R.K., Limbu, S.M., Ngupula, G.W., Mwita, C.J. and Mgaya, Y.D., 2014. Spatial patterns of zooplankton distribution and abundance in relation to phytoplankton, fish catch and some water quality parameters at Shirati bay, Lake Victoria-Tanzania. *Tanzania Journal of Science* 40: 20-33.
- 12.9.64 Kimirei, I.A., Nagelkerken, I., Slooter, N., Gonzalez, E.T., Huijbers, C.M., Mgaya, Y.D. and Rypel, A.L., 2015. Demography of fish populations reveals new challenges in appraising juvenile habitat values. *Marine Ecology Progress Series* 518: 225-237.
- 12.9.65 Limbu, S.M., Shoko, A.P., Shirima, E.D., Lamtane, H.A., Kische-Machumu, M.A., Mgana, H.F. and Mgaya, Y.D., 2015. Effect of initial stocking size of the predatory African catfish (*Clarias gariepinus*) on recruits, growth performance, survival and yield of mixed-sex Nile tilapia (*Oreochromis niloticus*) in concrete tank culture system. *International Aquatic Research* 7: 63-73.
- 12.9.66 Shoko, A.P., Limbu, S.M., Mrosso, H.D.L. and Mgaya, Y.D., 2015. Reproductive biology of female Nile tilapia, *Oreochromis niloticus* (Linnaeus) reared under monoculture and polyculture with sharp-tooth catfish (*Clarias gariepinus*, Burchell). *SpringerPlus* 4: 275-283.

- 12.9.67 Gaspare, L., Bryceson, I. and Mgaya, Y., 2015. Temporal and spatial trends in size, biomass and abundance of groupers (Epinephelinae) in Mafia Island Marine Park: Fishers' perceptions and underwater visual census surveys. *Fisheries Management and Ecology* 22: 337–348.
- 12.9.68 Shoko, A.P., Limbu, S.M., Mrosso, H.D.L., Mkenda, A.F. and Mgaya, Y.D., 2016. Effect of stocking density on growth, production and economic benefits of mixed sex Nile tilapia (*Oreochromis niloticus*) and African sharptooth catfish (*Clarias gariepinus*) in polyculture and monoculture. *Aquaculture Research* 47: 36-50.
- 12.9.69 Shoko, A.P., Limbu, S.M., and Mgaya, Y.D., 2016. Effect of stocking density on growth performance, survival, production and economic benefits of African sharptooth catfish (*Clarias gariepinus*) monoculture in earthen ponds. *Journal of Applied Aquaculture*, <https://doi.org/10.1080/10454438.2016.1188338>.
- 12.9.70 Limbu, S.M., Shoko, A.P., Lamtane, H.A., Kische-Machumu, M.A., Joram, M.C., Mbonde, A.S., Mgana, H.F., Mgaya, Y.D., 2016. Supplemental effects of mixed ingredients and rice bran on the growth performance, survival and yield of Nile tilapia, *Oreochromis niloticus* reared in fertilized earthen ponds. *SpringerPlus* 5(1): 1-13.
- 12.9.71 Limbu, S.M., Shoko, A.P., Lamtane, H.A., Kische-Machumu, M.A., Jorum, M.C., Mbonde, A.S., Mgana, H.F. and Mgaya, Y.D., 2016. Fish pond aquaculture system integrated with vegetable farming improves yield and economic benefits of small-scale farmers. *Aquaculture Research*, <https://doi.org/10.1111/are.13188>.
- 12.9.72 Waya, R.K., Limbu, S.M., Ngupula, G.W., Mwita, C.J. and Mgaya, Y.D., 2017. Temporal patterns in phytoplankton, zooplankton and fish composition, abundance and biomass in Shirati Bay, Lake Victoria, Tanzania. *Lakes and Reservoirs: Research and Management* 22: 19-42.
- 12.9.73 Mbonde, A.S., Limbu, S.M., Shoko, A.P. and Mgaya, Y.D., 2017. Phytoplankton and food selectivity in Nile tilapia reared in earthen ponds under monoculture and polyculture with African sharptooth catfish. *Journal of Aquaculture in the Tropics* 32(1): 15-38.
- 12.9.74 Mwakosya, C.A., Mgaya, Y.D. and Jiddawi, N.S., 2018. Genetic connectivity of *Fenneropenaeus indicus* (H. Milne Edwards 1837) among three prawn fishing grounds of Tanzanian coastal waters. *Regional Studies in Marine Science* 24: 107-112.
- 12.9.75 Shoko, A.P., Limbu, S.M., Lamtane, H.A., Kische-Machumu, M.A., Sekadende, B., Ulotu, E.E., Masanja, J.C., and Mgaya, Y.D., 2019. The role of fish-poultry integration on fish growth performance, yields and economic benefits among smallholder farmers in sub-Saharan Africa, Tanzania. *African Journal of Aquatic Science* 44(1): <https://doi.org/10.2989/16085914.2018.1555512>.
- 12.9.76 Chande, M.A., Mgaya, Y.D., Benno, L.B. and Limbu, S.M., 2021. The influence of environmental variables on the abundance and temporal distribution of *Octopus cyanea* around Mafia Island, Tanzania. *Fisheries Research* 241: <https://doi.org/10.1016/j.fishres.2021.105991>.
- 12.9.77 Johnson M.G., Mgaya Y.D. and Shaghude Y.W., 2021. Analysis of the genetic stock structure and phylogenetic relationship of narrow-barred Spanish mackerel *Scomberomorus commerson* (Lacépède, 1800) along the Northern Tanzanian coastal waters using mitochondrial DNA. *Regional Studies in Marine Science* 46: <https://doi.org/10.1016/j.rsma.2021.101862>.
- 12.9.78 Derua Y.A., Tungu, P.K., Malima, R.C., Mwingira, V., Kimambo, A.G., Batengana, B.M., Machafuko, P., Sambu, E.Z., Mgaya, Y.D. and Kisinza, W.N., 2022. Laboratory and semi-field evaluation of the efficacy of *Bacillus thuringiensis* var. *israelensis* (Bactivec®) and *Bacillus sphaericus* (Griselesf®) for control of mosquito vectors in northeastern Tanzania. *Current Research in Parasitology & Vector-Borne Diseases* 2 (2022): <https://doi.org/10.1016/j.crvbd.2022.100089>.

- 12.9.79 Ulega, A.H., Mgaya, Y.D., Lokina, R.B. and Mushy, R., 2022. The contribution of marine fisheries to the socioeconomic development in Tanzania Mainland: Reflections on the blue economy concept from selected coastal villages. *Journal of the Geographical Association of Tanzania* 42(2): 1-22.
- 12.9.80 Stuart, S.N., Magige, F.J., Hamerlynck, O., Newmark, W.D., Stephano, F., Spawls, S., Nahonyo, C., Mgaya, Y.D., Moyer, D.C. and Msuya, C. (2023). Tribute to Kim Monroe Howell (1945–2022). *African Zoology*, DOI: [10.1080/15627020.2023.2173433](https://doi.org/10.1080/15627020.2023.2173433)
- 12.9.81 Simtoe, A.P., Lugendo, B.R. and Mgaya, Y.D., 2024. Efficacy of aromatic plants *Zingiber officinale* and *Syzygium aromaticum* extracts as natural immunostimulants on survival, growth performance, and immune response of farmed prawn *Penaeus monodon* juveniles. *Aquaculture International*, 1–15. <https://doi.org/10.1007/s10499-024-01387-6>
- 12.9.82 Simtoe, A.P., Lugendo, B.R. and Mgaya, Y.D., 2024. Stable isotope profiling of farmed *Penaeus monodon* for the evaluation of feed efficiency. *Aquaculture, Fish and Fisheries*, 1–13. <https://doi.org/10.1002/aff2.152>
- 12.9.83 Simtoe, A.P., Lugendo, B.R. and Mgaya, Y.D., 2024. Efficacy of natural dietary herbal extracts on feed utilization, growth performance, and bactericidal effect of farmed *Penaeus monodon* challenged with pathogenic bacteria. *Journal of the World Aquaculture Society*. (Under review).
- 12.9.84 Simtoe, A.P., Lugendo, B.R. and Mgaya, Y.D., 2024. Nutritional requirements of penaeid prawns: An overview. *Frontiers in Aquaculture*. (Under review).
- 12.9.85 Simtoe, A.P., Lugendo, B.R. and Mgaya, Y.D., 2023. Efficacy of natural herbal dietary additives (*Curcuma longa*, *Pericarpium citri reticulatae* and *Pericarpium citri reticulatae viride*) extracts on feed utilization, growth performance, and bactericidal effect of farmed *Penaeus monodon* challenged with pathogenic *Vibrio harveyi*. *Applied Aquaculture*. (under review).

## 12.10 Books and Chapters in Books

### (a) Books

- 12.10.1 Mgaya, Y.D., Kimaro, S., Mwanuo, M., Sobo, F.A.S., Msuya, F., Mahika, C.G., Kalangahe, B., Lema, R., Kibassa, J., Haws, M. and Tobey, J., 1999. *Tanzania Mariculture Issue Profile*. Tanzania Coastal Management Partnership and Mariculture Working Group, Dar es Salaam. University of Rhode Island Coastal Resources Center, U.S.A. 102 pp.
- 12.10.2 Kulindwa, K., Sosovele, H. and Mgaya, Y.D., 2001. *Socio-Economic Dimensions of Biodiversity Loss in Tanzania*. Dar es Salaam University Press, Dar es Salaam. 127 pp.
- 12.10.3 Mgaya, Y.D., Mwamsojo, G.U.J., Lema, R., Sobo, F.A.S., Kimaro, S., Maly, R., Mwanuo, M., Mhitu, H.A., Kalangahe, B., Mwaipopo, D., Mahenge, J., Masanja, F., Mbyopyo, S., Lugazo, Z., Shao, A., Haule, W. and Haws, M., 2001. *Tanzania Mariculture Guidelines Source Book*. Tanzania Coastal Management Partnership, University of Rhode Island Coastal Resources Centre and United States Agency for International Development. 206 pp. + Appendices 1-2.
- 12.10.4 Conand, C., Muthiga, N., Ochiwo, J., Rasolofonirina, R., Frouin, P., Aumeeruddy, R., de la Torre-Castro, M. and Mgaya, Y., 2014. *Sea Cucumbers in the Western Indian Ocean: Improving Management of an Important But Poorly Understood Resource*. WIOMSA Book Series No. 13. Vii+74 pp.
- 12.10.5 Mgaya, Y.D. and Mahongo, S.B. (Editors), 2017. *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, <https://doi.org/10.1007/978-3-319-69656-0>. Springer, Cham, Switzerland. 287 pp.



## (b) Chapters in Books

- 12.10.6 Mgaya, Y.D. and Mercer, J.P., 1996. Gametogenic cycle of the abalone *Haliotis tuberculata* L., during conditioning in the hatchery. In: B.F. Keegan and R. O'Connor (Editors), *Irish Marine Science 1995*. Galway University Press, Galway, Ireland, pp. 397-406.
- 12.10.7 Horrill, J.C., Kamukuru, A.T., Mgaya, Y.D. and Risk, M., 2000. Northern Tanzania and Zanzibar. In: T.R. McClanahan, C.R.C. Sheppard and D.O. Obura (Editors), *Coral Reefs of the Indian Ocean: Their Ecology and Conservation*. Oxford University Press, New York, pp. 167-198.
- 12.10.8 Kulindwa, K., Sosovele, H. and Mgaya, Y.D., 2000. Rufiji, Ruvu and Wami mangroves. In: Wood, A., Stedman-Edwards, P. and Mang, J. (Editors), *The Root Causes of Biodiversity Loss*. Earthscan Publications Ltd., London, pp. 309-336.
- 12.10.9 Muhandu, C., Mgaya, Y. and Daffa, J., 2001. Coastal resources and their use. In: *Eastern Africa Atlas of Coastal Resources: Tanzania*. UNEP, Nairobi, Kenya, pp. 49-76.
- 12.10.10 Mgaya, Y.D. and Juma, S., 2001. Integrated coastal zone management in Tanzania. In: C. Voabil and S. Engdahl (Editors), *The Voyage from Seychelles to Maputo: Successes and Failures of Integrated Coastal Zone Management in Eastern Africa and Island States, 1996-2001*. Volume I. Eastern African Mainland Country and Regional Reports. SEACAM, Maputo, Mozambique, pp. 123-149.
- 12.10.11 Pokorný, J., Příklad, I., Faina, R., Kansime, F., Kaggwa, R.C., Kipkemboi, J., Kitaka, N., Denny, P., Bailey, R.G., Lamtane, H.A. and Mgaya, Y.D., 2005. Will fish pond management principles from the temperate zone work in tropical fingerponds? In: J. Vymazal (Editor), *Natural and Constructed Wetlands: Nutrients, Metals and Management*. Backhuys Publishers, Leiden, The Netherlands, pp. 382-399.
- 12.10.12 Bâ, M., Berraho, A., Bodiguel, C., Cunningham, S., and Mgaya, Y., 2005. *Coastal and Marine Fisheries: Towards a New Vision for the Exploitation and Sustainable Management of Africa's Fishery Resources. Technical Review Paper*. NEPAD Fish for All Summit, 22-25 August 2005, Abuja, Nigeria. WorldFish Center, Cairo, Egypt. 30 pp.
- 12.10.13 Sallema, R.E. and Mgaya, Y.D., 2005. Assessment of factors affecting growth rate of *Terebralia palustris* L. at Mbwani channel and Mbwani beach mangrove forest. In: Ngoile, M.A.K., Muheto, R.N., Khatibu, F.H., Mapinduzi, A.L. and Maro, P.S. (Editors), *Agriculture, Environment and Poverty Eradication in Tanzania. Environmental Sustainability Technical Report 1*. National Environment Management Council, Dar es Salaam, pp. 106-116.
- 12.10.14 Mgaya, Y. and Mmbaga, T., 2007. Sea cucumbers in Tanzania. In: Conand, C. and Muthiga, N. (Editors), *Commercial Sea Cucumbers: A Review for the Western Indian Ocean*. WIOMSA Book Series No. 5: 53-59.
- 12.10.15 Martin Gullström, Martijn Dorenbosch, Blandina Lugendo, Augustine Mwandya, Yunus Mgaya and Charlotte Berkström, 2012. Biological connectivity and nursery function of shallow-water habitats in Chwaka Bay. In: Maricela de la Torre-Castro and Thomas Lyimo (Editors), *People, Nature and Research in Chwaka Bay, Zanzibar, Tanzania*. WIOMSA, Zanzibar, pp. 175-192.
- 12.10.16 Mgaya, Y.D., 2017. Introduction. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_1](https://doi.org/10.1007/978-3-319-69656-0_1). Springer, Cham, Switzerland, pp. 1-9.
- 12.10.17 Mgaya, Y.D., 2017. Overall conclusions and recommendations. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_14](https://doi.org/10.1007/978-3-319-69656-0_14). Springer, Cham, Switzerland, pp. 275-279.
- 12.10.18 Mgaya, Y.D., Limbu, S.M., Lugomela, C.V., Kimirei, I.A., Kayanda, R.J. and Ngupula, G.W., 2017. Biodiversity indicators: plankton and macroinvertebrates in Lake Victoria, selected satellite lakes and rivers. In: Mgaya,

- Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_5](https://doi.org/10.1007/978-3-319-69656-0_5). Springer, Cham, Switzerland, pp. 81-106.
- 12.10.19 Hoza, R.B., Mgaya, Y.D., and Bwathondi, P.O.J., 2017. Historical trends in fisheries management. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_9](https://doi.org/10.1007/978-3-319-69656-0_9). Springer, Cham, Switzerland, pp. 185-204.
- 12.10.20 Katunzi, E.F.B., Onyango, P., Mahongo, S.B., Kische-Machumu, M.A., van Rijssel, J.C. and Mgaya, Y.D., 2017. Historical perspectives and trends in fisheries research in Tanzania. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_2](https://doi.org/10.1007/978-3-319-69656-0_2). Springer, Cham, Switzerland, pp. 11-35.
- 12.10.21 Katunzi, E.F.B., Mgaya, Y.D., Mkumbo, O.C. and Limbu, S.M., 2017. Fish biology and life history indicators. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_4](https://doi.org/10.1007/978-3-319-69656-0_4). Springer, Cham, Switzerland, pp. 61-79.
- 12.10.22 Kayanda, R., Chande, A.I., Mgaya, Y.D., Mlaponi, E. and Mkumbo, O.C., 2017. Stock assessment of commercial fish species of Lake Victoria. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_6](https://doi.org/10.1007/978-3-319-69656-0_6). Springer, Cham, Switzerland, pp. 107-135.
- 12.10.23 Kimirei, I.A., Semba, M., Mwakosya, C., Mgaya, Y.D. and Mahongo, S.B., 2017. Environmental changes in the Tanzanian part of Lake Victoria. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_3](https://doi.org/10.1007/978-3-319-69656-0_3). Springer, Cham, Switzerland, pp. 37-59.
- 12.10.24 Lukanga, S.A. and Mgaya, Y.D., 2017. Fish quality assurance. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_13](https://doi.org/10.1007/978-3-319-69656-0_13). Springer, Cham, Switzerland, pp. 255-274.
- 12.10.25 Mahatane, A., Mgaya, Y.D., Hoza, R.B., Onyango, P. and Semba, M., 2017. Co-management of Lake Victoria fisheries. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_11](https://doi.org/10.1007/978-3-319-69656-0_11). Springer, Cham, Switzerland, pp. 219-239.
- 12.10.26 Moshia, E.J., Mahongo, S.B., Hoza, R.B. and Mgaya, Y.D., 2017. Financing mechanisms for Lake Victoria fisheries management. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_10](https://doi.org/10.1007/978-3-319-69656-0_10). Springer, Cham, Switzerland, pp. 205-217.
- 12.10.27 Shoko, A.P., Mgaya, Y.D., Limbu, S.M. and Hoza, R., 2017. Aquaculture and fisheries extension. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_7](https://doi.org/10.1007/978-3-319-69656-0_7). Springer, Cham, Switzerland, pp. 137-160.
- 12.10.28 Sobo, F., Mgaya, Y.D., Kayanda, R. and Semba, M., 2017. Fisheries statistics for Lake Victoria, Tanzania. In: Mgaya, Y.D. and Mahongo, S.B. (Editors), *Lake Victoria Fisheries Resources: Research and Management in Tanzania*. Monographiae Biologicae 93, [https://doi.org/10.1007/978-3-319-69656-0\\_12](https://doi.org/10.1007/978-3-319-69656-0_12). Springer, Cham, Switzerland, pp. 241-253.
- 12.10.29 Trisos, C.H., Adelekan, I.O., Totin, E., Ayanlade, A., Efitre, J., Gameda, A., Kalaba, K., Lennard, C., Masao, C., **Mgaya, Y.**, Ngaruiya, G., Olago, D., Simpson, N.P., and Zakieldeen, S., 2022. Africa. In: Pörtner, H.-O., Roberts, D.C., Tignor, M., Poloczanska, E.S., Mintenbeck, K., Alegria, A., Craig, M., Langsdorf, S., Lösckhe,

S., Möller, V., Okem, A., and Rama, B. (Editors), *Climate Change 2022: Impacts, Adaptation, and Vulnerability*. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 1285-1455. <https://doi.org/10.1017/9781009325844.011>.

- 12.10.30 Sarah Cooley, David Schoeman, Laurent Bopp, Philip Boyd, Simon Donner, Shin-ichi Ito, Wolfgang Kiessling, Paulina Martinetto, Elena Ojea, Marie-Fanny Racault, Bjoern Rost, Mette Skern-Mauritzen, Dawit Yemane Ghebrehiwet, Johann D Bell, Julia Blanchard, Jessica Bolin, William WL Cheung, Andrés Cisneros-Montemayor, Sam Dupont, Stephanie Dutkiewicz, Thomas Frölicher, Juan-Diego Gaitán-Espitia, Jorge García Molinos, Helen Gurney-Smith, Stephanie Henson, Manuel Hidalgo, Elisabeth Holland, Robert Kopp, Rebecca Kordas, Lester Kwiatkowski, Nadine Le Bris, Salvador E Lluch-Cota, Cheryl Logan, Felix Christopher Mark, **Yunus Mgaya**, Coleen Moloney, Norma Patricia Muñoz Sevilla, Gregoire Randin, Nussaibah B Raja, Anusha Rajkaran, Anthony Richardson, Stephanie Roe, Raquel Ruiz Diaz, Diana Sallili, Jean-Baptiste Sallée, Kylie Scales, Michelle Scobie, Craig T Simmons, Olivier Torres, Andrew Yool, 2022. Oceans and coastal ecosystems and their services. In: Pörtner, H.-O., Roberts, D.C., Tignor, M., Poloczanska, E.S., Mintenbeck, K., Alegria, A., Craig, M., Langsdorf, S., Löschke, S., Möller, V., Okem, A., and Rama, B. (Editors), *Climate Change 2022: Impacts, Adaptation, and Vulnerability*. Contribution of Working Group II to the Sixth Assessment Report of the Intergovernmental Panel on Climate Change. Cambridge University Press, Cambridge, UK and New York, NY, USA, pp. 379-550. <https://doi.org/10.1017/9781009325844.005>.

### (c) Technical Reports

- 12.10.31 Mgaya, Y.D., 2000. Chapter 6: Other marine living resources. In: Ngusaru, A.S. (Editor), *The Present State of Knowledge of Marine Science in Tanzania: Synthesis Report*. Working Document: 5047 TCMP. Tanzania Coastal Management Partnership, Dar es Salaam. NEMC/URI/USAID, pp. 166-182.
- 12.10.32 Richmond, M.D., Wilson, J.D.K., Mgaya, Y.D., and Le Vay, L., 2002. *An Analysis of Smallholder Opportunities in Fisheries, Coastal and Related Enterprises in the Floodplain and Delta Areas of the Rufiji River, Tanzania*. Rufiji Environment Management Project. IUCN Eastern Africa Regional Office, Nairobi, Kenya. REMP Technical Report No. 25. 89 pp.
- 12.10.33 Mgaya, Y.D., 2005. *Synthesis of Fisheries Research and Fisheries Management Activities Under the Auspices of the Lake Victoria Environment Management Project*. Synthesis Report Submitted to LVEMP National Secretariat, Dar es Salaam, Tanzania. 247 pp. Available at Lake Victoria Basin Commission Repository. URI: <http://hdl.handle.net/11671/807>.
- 12.10.34 Kolding, J., van Zwieten, P., Manyala, J., Okedi, J., Mgaya, Y.D. and Orach-Meza, F., 2005. *Regional Synthesis Report on Fisheries Research and Management: States, Trends and Processes*. Final Report, Maun, Wageningen, Dar es Salaam. 126 pp. Available at [www.researchgate.net](http://www.researchgate.net).
- 12.10.35 Bâ, M., Berraho, A., Bodiguel, C., Cunningham, S. and Mgaya, Y., 2006. *Coastal and Marine Fisheries: Toward a New Vision for the Exploitation and Sustainable Management of Africa's Fisheries Resources*. Technical Review Paper. NEPAD-Fish-for-ALL. WorldFish Center, Cairo, 30 pp.

### 12.11 Edited and Published Conference Proceedings

- 12.11.1 Mgaya, Y.D. and Kerario, E., 1991. Tanzania National Report. In: C.M. Finlayson and D.E. Pomeroy (Editors), *Wetlands and Waterbirds in Eastern Africa. Proceedings of the IWRB Workshop, Uganda 1990*. IWRB, Slimbridge, U.K., pp. 63-68.
- 12.11.2 Lugomela, C.V., Julius, A., Semesi, A.K., Mgaya, Y.D. and Muroke, M.H.S., 1999. Current status of phytoplankton studies in Tanzania coastal waters. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18-19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 33-39.

- 12.11.3 Mgaya, Y.D., Muruke, M.H.S. and Semesi, A.K., 1999. The sea cucumber and mollusc fisheries in Bagamoyo. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 65-71.
- 12.11.4 Mgaya, Y.D., Muruke, M.H.S. and Semesi, A.K., 1999. Sustainable mariculture: the case of prawn culture development in Bagamoyo District. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 73-83.
- 12.11.5 Mgaya, Y.D., Msumi, G.D., Muruke, M.H.S. and Semesi, A.K., 1999. Assessment of the finfish fishery in Bagamoyo coastal waters. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 41-54.
- 12.11.6 Mgaya, Y.D., Muruke, M.H.S., Chande, A.I. and Semesi, A.K., 1999. Evaluation of crustacean resources in Bagamoyo District. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 55-63.
- 12.11.7 Muruke, M.H.S., Mgaya, Y.D., Howell, K.M. and Semesi, A.K., 1999. Tourism development in Tanzania with particular reference to Bagamoyo district. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 93-104.
- 12.11.8 Muruke, M.H.S., Mgaya, Y.D., Julius, A. and Semesi, A.K., 1999. Salt production and related activities along the mangrove ecosystem in Bagamoyo area. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 85-91.
- 12.11.9 Semesi, A.K., Muruke, M.H.S. and Mgaya, Y.D., 1999. Seagrasses and seaweeds at selected sites in Bagamoyo District. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 11-16.
- 12.11.10 Semesi, A.K., Muruke, M.H.S. and Mgaya, Y.D., 1999. Introduction to the mangroves, seagrasses, seaweeds and coral reefs. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 1-9.
- 12.11.11 Semesi, A.K., Muruke, M.H.S. and Mgaya, Y.D., 1999. Mangroves of Ruvu river and Kaole, Bagamoyo District. In: K.M. Howell and A.K. Semesi (Editors), *Coastal Resources of Bagamoyo District Tanzania. Proceedings of a Workshop on Coastal Resources of Bagamoyo, 18–19 December 1997, Bagamoyo*. Faculty of Science, University of Dar es Salaam, pp. 17-25.
- 12.11.12 Mgimwa, F.A., Mgaya, Y.D. and Ngoile, M.A.K., 1999. Dynamics of the dema trap fishery in the coastal waters of Zanzibar. In: Jiddawi, N.S. and Stanley, R.D. (Editors), *Fisheries Stock Assessment in the Traditional Fishery Sector: The Information Needs. Proceedings of the National Workshop on the Artisanal Fishery Sector, Zanzibar, 22 –24 September 1997, Zanzibar, Tanzania*. Institute of Marine Sciences, University of Dar es Salaam and Canadian International Development Agency, pp. 125-134.
- 12.11.13 Msumi, G.D., Mgaya, Y.D., Muruke, M.H.S. and Semesi, A.K., 1999. The artisanal fishery in Bagamoyo: A case study of Mbegani shore waters. In: Jiddawi, N.S. and Stanley, R.D. (Editors), *Fisheries Stock Assessment in the Traditional Fishery Sector: The Information Needs. Proceedings of the National Workshop on the Artisanal Fishery Sector, Zanzibar, 22 –24 September 1997, Zanzibar, Tanzania*. Institute of Marine Sciences, University of Dar es Salaam and Canadian International Development Agency, pp. 96-103.

- 12.11.14 Lugendo, B.R., Mgya, Y.D. and Semesi, A.K., 2001. The seagrasses and associated macroalgae at selected beaches along Dar es Salaam coast. In: Richmond, M.D. and Francis, J. (Editors), *Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20<sup>th</sup> Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania.* IMS/WIOMSA, pp. 359-373.
- 12.11.15 Mhitu, H.A., Mgya, Y.D., and Ngoile, M.A.K., 2001. Growth and reproduction of the squid, *Sepioteuthis lessoniana* in the coastal waters of Zanzibar. In: Richmond, M.D. and Francis, J. (Editors), *Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20<sup>th</sup> Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania.* IMS/WIOMSA, pp. 289-300.
- 12.11.16 Mlay, A.P., Wagner, G.M. and Mgya, Y.D., 2001. A comparative study of the ecology of four sandy/muddy shores in the Dar es Salaam area. In: Richmond, M.D. and Francis, J. (Editors), *Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20<sup>th</sup> Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania.* IMS/WIOMSA, pp. 375-399.
- 12.11.17 Mohammed, M.S. and Mgya, Y.D., 2001. Nutrients and their dynamics in the coral reefs off Zanzibar town. In: Richmond, M.D. and Francis, J. (Editors), *Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20<sup>th</sup> Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania.* IMS/WIOMSA, pp. 171-183.
- 12.11.18 Semesi, A.K., Mgya, Y., Muroke, M., Francis, J., Julius, A., Lugomela, C., Mtolera, M., Kuguru, B., Kivia, D., Lilungulu, J., Magege, A., Mposo, A., Kaijunga, D., Mwinoki, N., Msumi, G., and Kalangahe, B., 2001. Coastal resources of Bagamoyo District, Tanzania In: Richmond, M.D. and Francis, J. (Editors), *Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20<sup>th</sup> Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania.* IMS/WIOMSA, pp. 517-533.
- 12.11.19 Wagner, G.M., Mgya, Y.D., Akwilapo, F.D., Ngowo, R.G., Sekadende, B.C., Allen, A., Price, N., Zollet, E.A., and Mackentley, N., 2001. Restoration of coral reef and mangrove ecosystems at Kunduchi and Mweni, Dar es Salaam, with community participation. In: Richmond, M.D. and Francis, J. (Editors), *Marine Science Development in Tanzania and Eastern Africa. Proceedings of the 20<sup>th</sup> Anniversary Conference on Advances in Marine Science in Tanzania. 28 June – 1 July 1999, Zanzibar, Tanzania.* IMS/WIOMSA, pp. 467-488.
- 12.11.20 Mgya, Y.D., 2001. Echinoderm resources: Their utilization and management. In: Mshigeni, K. and Bisanda, E. (Editors), *Breakthrough Opportunities from the World's Bioresources. Proceedings of the Fourth Annual World Congress on Zero Emissions, 14 – 17 October 1998, Windhoek, Namibia.* The University of Namibia, Windhoek, Namibia, pp. 111-115.
- 12.11.21 Mgya, Y.D. and Magingo, F.S.S., 2002. Basic science information. In: Kohi, Y., Mteleka, T., Kingamkono, R., Komba, M., Mbagha, D.R., and Mafunda, D. (Editors), *Development of Basic Sciences in Tanzania. Proceedings of the Stakeholders' Workshop. 13<sup>th</sup> – 14<sup>th</sup> May 2002, Dar es Salaam.* Tanzania Commission for Science and Technology, Dar es Salaam, pp. 110-118.
- 12.11.22 Mgya, Y.D. 2003. Marine biodiversity in Tanzania – the known and the unknown. In: Decker, C., Griffiths, C., Prochazka, K., Ras, C., and Whitfield, A. (Editors), *Proceedings of the Marine Biodiversity in Sub-Saharan Africa: The Known and the Unknown, Cape Town, South Africa, 23<sup>rd</sup> to 26<sup>th</sup> September 2003.* University of Cape Town, Cape Town, pp. 156-169.
- 12.11.23 Mgya, Y.D., Msaki, P.K., and Kivaisi, A.K. (Editors), 2004. *Current Trends in Environmental Science Research in Eastern Africa. Proceedings of an International Symposium on Scientific Research on Environment. September 23<sup>rd</sup> – 26<sup>th</sup> 2002, Dar es Salaam.* Faculty of Science, University of Dar es Salaam. 431 pp.
- 12.11.24 Sebastian, M., Muroke, M.H.S. and Mgya, Y.D., 2004. Bacterial contamination of the edible cockle, *Anadara antiquata*, from the Ocean Road and Mjimwema beaches, Dar es Salaam. In: Mgya, Y.D., Msaki, P.K., and Kivaisi, A.K. (Editors), *Current Trends in Environmental Science Research in Eastern Africa. Proceedings of an International Symposium on Scientific Research on Environment. September 23<sup>rd</sup> – 26<sup>th</sup> 2002, Dar es*

Salaam. Faculty of Science, University of Dar es Salaam, pp. 67–84.

- 12.11.25 Chande, A.I., Mgaya, Y.D. and Muroke, M.H.S., 2004. Exploitation and population structure of commercially important crustacean resources in Bagamoyo coastal waters, Tanzania. In: Mgaya, Y.D., Msaki, P.K., and Kivaisi, A.K. (Editors), *Current Trends in Environmental Science Research in Eastern Africa. Proceedings of an International Symposium on Scientific Research on Environment. September 23<sup>rd</sup> – 26<sup>th</sup> 2002, Dar es Salaam*. Faculty of Science, University of Dar es Salaam, pp. 202–213.
- 12.11.26 Lamtane, H.A., Mgaya, Y.D. and Bailey, R.G. 2008. Effects of water quality and flooding episode on the yield of *Oreochromis urolepis* (Norman, 1922) from self-stocked ponds. *Proceedings of the 8<sup>th</sup> International Symposium on Tilapia in Aquaculture. 12–14 October 2008, Cairo, Egypt*, pp 141-156.
- 12.11.27 Shoko, A.P., Lamtane, H.A., Wetengere, K., Kajitanus, O.O., Msuya, F.E., Mmochi, A.J. and Mgaya, Y.D., 2011. The status and development of aquaculture in Tanzania, East Africa. In: Natarajan, P., Wondimu, L., Boyossa, T., Zuberi, M.I., Nair, A.S., Beyeh, A. and Aga, E. (Editors), *Technical Proceedings of the International Conference on Ecosystem Conservation and Sustainable Development (ECOCASD 2011). February 10<sup>th</sup> -12<sup>th</sup> 2011, Ambo, Ethiopia*. Ambo University, Ambo, Ethiopia, pp. 85-97.

#### 12.12 Non-refereed Publications/Reports/Theses

- 12.12.1 Mgaya, Y.D., 1986. Some Aspects of the Biology of Silver-bellies Fish *Gerres oyena* Forskal (Perciformes: Gerreidae). Undergraduate Research Project (1986), University of Dar es Salaam. 35 pp.
- 12.12.2 Mgaya, Y.D., 1989. Age and Growth of the Mosshead Sculpin *Clinocottus globiceps* Girard with an Assessment of its Role in Production of Tidepool Fishes. MSc Thesis, University of British Columbia. 127 pp.
- 12.12.3 Mgaya, Y.D., 1995. Studies on Some Quantitative Aspects of Growth, Genetics and Reproduction of the European Abalone (Ormer) *Haliotis tuberculata* Linnaeus under Aquaculture Conditions. PhD Thesis, University College Galway, National University of Ireland. 251 pp.
- 12.12.4 Mgaya, Y.D., 1997. Prawns farming in Tanzania. Kakakuona, Tanzania Wildlife Magazine No. 7: 14-15.
- 12.12.5 Mgaya, Y.D., 1998. Bernhard Grzimek Essay: Biodiversity and conservation of the marine environment. Kakakuona, Tanzania Wildlife Magazine, No. 10: 58-61.
- 12.12.6 Mgaya, Y.D., Machiwa, J.F., Lugomela, C., Lyimo, T., Joseph, C., Muzuka, A., Shaghude, Y., Mvungi, A., Mapunda, B. and Mwanuzi, F.L., 2004. Environmental studies of Mtoni mangrove ecosystem, Dar es Salaam. 105 pp. Final Report submitted to the Faculty of Science, University of Dar es Salaam.

#### 12.13 Consultancy Reports

- 12.13.1 Mgaya, Y.D., 1991. Preliminary Environmental Impact Assessment Study of the Proposed Songo Songo Gas Pipeline. Consultancy Report to Hardy BBT Ltd., Calgary, Canada. 19 pp.
- 12.13.2 Machiwa, J.F., Mgaya, Y.D. and Ndaru, S.G.M., 1991. Environmental Impact Assessment Study of the Proposed Dar es Salaam Harbour Expansion Project. Consultancy Report to Scott Consulting Engineers and Planners, U.K. 36 pp.
- 12.13.3 Mgaya, Y.D. and Tamatamah, R.A., 1996. The farming of marine organisms. Training manual developed for Tanga Coastal Zone Conservation and Development Programme. 139 pp.
- 12.13.4 Mgaya, Y.D., 1997. Environmental impact assessment of the proposed integrated prawn farm project in the Rufiji Delta: Impact on the marine environment. Consultancy Report to African Fishing Company, Dar es Salaam. 33 pp.

- 12.13.5 Wagner, G.M., Mgaya, Y.D. and Benno, B.L., 1997. Environmental Impact Assessment of the Songo Songo Gas to Electricity Project: Impact on the Marine Environment. Consultancy Report to NORPLAN A/S, Norway. 86 pp.
- 12.13.6 Kulindwa, K., Sosovele, H. and Mgaya, Y.D., 1998. Socio-economic root causes of biodiversity loss in Tanzania: the case of mangrove forests in the three major deltas of Rufiji, Ruvu and Wami river deltas. Consultancy Report to WWF–US, Washington DC.
- 12.13.7 Mgaya, Y.D., 1998. Baseline studies on fish and invertebrates for the Geita Gold Mining Project. Consultancy Report Submitted to WEGS Consultants for Ashanti Goldfields Company. Part I and II. 46 pp.
- 12.13.8 Wagner, G.M., Mallya, U., Juma, S., Mgaya, Y.D., Wahure, O., Mahika, G., and Wagner, S.M., 1999. A preliminary investigation for an integrated, community-based approach to conservation and restoration on marine ecosystems along the Dar es Salaam coast. Consultancy Report to African Development Foundation, Dar es Salaam. 124 pp.
- 12.13.9 Mgaya, Y.D., Kundi, B.A.T., Meshack, M.V. and Shija, J.K., 1999. Five years of the UDSM Transformation Programme 1994/95–1998/99. Report submitted to Programme Management Unit, University of Dar es Salaam. 71 pp.
- 12.13.10 Mgaya, Y.D., 2001. Investigation of mariculture options in Mafia Island Marine Park. Consultancy Report to WWF Tanzania Programme Office, Dar es Salaam, Tanzania. 55 pp.
- 12.13.11 Ngusaru, A.S., Mgaya, Y.D., Francis, J., and Sosovele, H., 2001. Root causes of biodiversity loss in Rufiji-Kilwa-Mafia and Mnazi Bay-Ruvuma estuary in Tanzania. Consultancy Report to WWF East African Marine Ecoregion (EAME) Programme. 63 pp.
- 12.13.12 Mgaya, Y.D., Suya, T.B. and Mukama, S., 2002. Baseline studies on fish and invertebrates for the Tulawaka Gold Mining Project. Consultancy Report Submitted to WEGS Consultants. Parts I and II. 57 pp.
- 12.13.13 Mgaya, Y.D., Mbelle, A.V.Y. and Njau, G.J., 2003. Environmental impact statement of the proposed shrimp farming project in Mafia Island. Prepared for ALPHAKRUST LTD., Dar es Salaam. 113 pp.
- 12.13.14 Mashalla, Y.J.S. and Mgaya, Y.D., 2003. Final Evaluation of the Project Strengthening Tanzanian Disaster Response Capacity (2001-2003). Report submitted to USAID/Tanzania Mission, Dar es Salaam. 93 pp.
- 12.13.15 Mgaya, Y.D. and Osaki, K., 2003. Internal evaluation of the first phase of the UDSM – Carnegie Corporation Programme (2001 – 2003). University of Dar es Salaam. 50 pp.
- 12.13.16 Mashalla, Y.J.S., Kundi, B.A.T., Mgaya, Y.D., and Mlacha, S.A.K., 2004. Strategic Plan and Institutional Development Support for Institute of Judicial Administration, Lushoto. 70 pp.
- 12.13.17 Tusubira, F.F. and Mgaya, Y.D., 2004. Final evaluation of the First phase of the University of Dar Es Salaam – Carnegie Corporation Programme (2001 – 2003). Report submitted to University of Dar es Salaam. 27 pp.
- 12.13.18 Mgaya, Y.D. 2004. The vulnerability of mangrove and adjacent coral reefs to climate change in Rufiji Delta. Report submitted to WWF, the Eastern African Marine Ecoregion Programme, Dar es Salaam. 27 pp.
- 12.13.19 Mlacha, S.A.K., Mgaya, Y.D., Mashalla, Y.J.S. and Rubaratuka, I., 2004. Master Plan for the Institute of Judicial Administration, Lushoto. Report Submitted to IJA, Lushoto.
- 12.13.20 Mgaya, Y.D., 2004. Project Implementation Manual for the Marine and Coastal Environment Management Project (MACEMP). Ministry of Natural Resources and Tourism (Mainland) and Ministry of Agriculture, Natural Resources, Environment and Cooperatives (Zanzibar). 104 pp.

- 12.13.21 Mushi, P.S.D., Mgaya, Y.D. and Mrema, G.D., 2004. Study on the impact of the Pre-entry Science Programme for the period 1997 to June 2004. Report Submitted to UDSM Gender Dimension Programme Committee. 39 pp.
- 12.13.22 Mgaya, Y.D. 2005. Synthesis Report on Fisheries Research and Management. Report Submitted to Lake Victoria Environmental Management Project, Dar es Salaam. 249 pp.
- 12.13.23 Kolding, J., van Zwieten, P.A.M., Manyala, J., Okedi, J., Mgaya, Y.D. and Orach-Meza, F., 2005. Lake Victoria Environmental Management Program (LVEMP): Regional Synthesis Report on Fisheries Research and Management. States, trends and processes. LVEMP Regional Secretariat, Entebbe, Uganda. 126 pp.
- 12.13.24 Njau, K., Kundi, B.A.T., Mgaya, Y.D., Mvungi, A., and E. Lewanga, 2005. Implementation completion report for the Lake Victoria Environmental Management Project (T) for the period July 1997-December 2005. 84 pp.
- 12.13.25 Mgaya, Y.D., Nfuka, E.N., Toba, R.D. and Mashalla, Y.J.S., 2006. University of Dar es Salaam Information and Communication Technology Policy. 44 pp.
- 12.13.26 Mgaya, Y.D., Kundi, B.A.T. and Mlacha, S.A.K., 2006. Strategic and Perspective Plans for the Inter-University Council for East Africa. Report Submitted to IUCEA, Kampala, Uganda.
- 12.13.27 Ishumi, A.G., Mgaya, Y.D., Moshi, H.B.P., Mtaló, F.W., Muruke, M.H.S., and Toba, R.D., 2006. Institutional Self-Evaluation: University of Dar es Salaam's Evaluation of its Performance for the Period 2004-2006. Report to the Tanzania Commission for Universities for Purposes of Re-accreditation. University of Dar es Salaam. 65 pp.
- 12.13.28 Mgaya, Y.D., Omari, I.M. and Toba, R.D., 2006. Rolling Strategic Plan for the Period 2006/07 to 2010/2011 for Dar es Salaam University College of Education. 64 pp.
- 12.13.29 Mgaya, Y.D. and Kundi, B.A.T., 2007. Rolling Strategic Plan for the Period 2007/08 to 2011/2012 for the Tanzania National Health Research Forum. 40 pp.
- 12.13.30 Whist, E., Lukumbuza, K., Chijoriga, M.M., Pfliegner, K., and Mgaya, Y.D., 2008. Appraisal of a New Natural Resources Programme, 2008-2012. Ministry of Natural Resources and Tourism. Final Appraisal Report to Royal Norwegian Embassy in Dar es Salaam. Scanteam, Oslo. 83 pp.
- 12.13.31 Sosovele, H., Benjamin, C., Issa, A.S., Kabengi, M.K., Kiwasila, H., Meadows, K., Mfinanga, D., Mgaya, Y.D., Nahonyo, C.L. and Thiam, B., 2008. Strategic Environmental Assessment of Mafia Island. Volumes I-III. Prepared for Millennium Challenge Account-Tanzania. IRG, Washington DC / IRA-UDSM / IUCN, Dar es Salaam.
- 12.13.32 Mgaya, Y.D., Kundi, B.A.T. and Manyaga, T., 2010. Tanzania Qualifications Framework. Consultancy Report submitted to Tanzania Commission for Universities, Dar es Salaam.
- 12.13.33 Mgaya, Y.D., 2010. Water Quality Management and Pollution Control Strategy in Tanzania. Contributed a Chapter to the Report prepared by SMEC International for the Ministry of Water and Irrigation, Dar es Salaam.
- 12.13.34 Mgaya, Y.D., 2012. Integrated Water Resources Management and Development Plan (IWRMDP) for Internal Drainage Basin (IDP). Contributed a Chapter to the Report prepared by Yekom Consulting Engineers and FBNE Limited for the Ministry of Water, Dar es Salaam.
- 12.13.35 Mgaya, Y.D. and Mwitá, C.J. 2012. Assessment of the implementation of fisheries management measures to address the decline of Nile perch stock in Lake Victoria. National Audit Office of Tanzania (NAOT). 46 pp.
- 12.13.36 Mgaya, Y.D. and Haule, W.V. 2013. Tanzania Tuna Fisheries Management Strategy. Consultancy Report submitted to WWF Tanzania Country Office, Dar es Salaam.



- 12.13.37 Mgaya, Y.D., 2013. Ground truthing of turtle nesting sites at two of the proposed sites being considered during the site selection exercise through mapping and targeted site survey, in Kilwa District – Tanzania. Report submitted to Environmental Resource Management, UK for Statoil Tanzania Gas Project.
- 12.13.38 Mgaya, Y.D. and Makongoro, P.M., 2015. Initial Environmental Audit for Shrimp Farming Project at Farm and Hatchery in Mafia District, Coast Region Tanzania. Consultancy Report submitted to AlphaKrust Ltd., Dar es Salaam. 155 pp.
- 12.13.39 Mgaya, Y.D., Shaghude, Y.W. and Mukaka, D.S., 2018. Marine Ecological and Oceanographic Survey for Mtwara Thermal Power Plant. Consultancy Report submitted to Environmental Resources Management, Japan. 53 pp.
- 12.13.40 Mgaya, Y.D., Kundi, B.A.T., Haule, W.V., Yona, F. and Zubeir, Z.H., 2019. Zanzibar Fisheries Master Plan 2019-2033. Consultancy Report submitted to The Revolutionary Government of Zanzibar. 113 pp.
- 12.13.41 Mgaya, Y.D. 2021. Technical Reviewer of the Tanzania Mainland Fisheries Master Plan. Consultancy funded by FAO. 208 pp.
- 12.13.42 Mgaya, Y.D. 2023. Technical Reviewer of the Scoping Study on the Status of Marine Spatial Planning in Tanzania. Consultancy Report submitted to The Nature Conservancy. 204 pp.

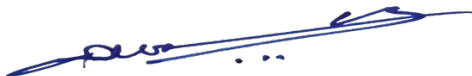
## REFEREES

Prof. William Anangisye  
Vice Chancellor  
University of Dar es Salaam  
Mob. +255 786 574 123  
Email address: wanangisye@udsm.ac.tz

Dr. Blandina R. Lugendo  
Dean  
School of Aquatic Sciences and Fisheries Technology  
University of Dar es Salaam  
Mob. +255 713 437 789  
Email address: blandina\_lugendo@yahoo.co.uk

CERTIFICATION: I, the undersigned certify that, to the best of my knowledge and belief, this Curriculum Vitae correctly describes qualifications, my experience and myself.

Signature:



(Signed)

Date: 20<sup>th</sup> January 2024