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Senior Lecturer

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EDUCATION

Ph.D. (Environmental Sciences) Saitama University, Japan (2003-2006)

Diploma (Ecological Marine Management - ECOMAMA), University of Brussels, Belgium (2000-2001)

M.Sc. (Ecological Marine Management - ECOMAMA), University of Brussels, Belgium (2000-2002)

B.Sc.(Ed.) (Honours Chemistry and Biology), University of Dar es salaam, Tanzania (1994-1998)

RESEARCH INTERESTS

Biogeochemistry, Environmental geochemistry, Organic Geochemistry, Climate change and adaptation, Fate of heavy metals in Aquatic Environments, Ecotoxicology, Aquatic Macrophytes, Monitoring Stream Health by using macro-invertebrates (Water Quality Monitoring).

PROFESSIONAL EXPERIENCE

2013- Present. Senior Lecturer, University of Dar es Salaam

2007-2012. Lecturer, University of Dar es Salaam

2003-2006. Teaching Assistant, Saitama University, Japan

2002-2003. Senior Museum Education Officer, Tanzania Natural History Museum, Arusha

1999-2000. Laboratory Scientist, University of Dar es Salaam

SELECTED RESEARCH AND CONSULTANCY

Enhancing Riverine Fisheries Productivity and Water Quality Improvement through Integrated Weir and Riparian Vegetation Propagation Technologies in the Lake Victoria Basin. Funded by Sida-SAREC through Inter-University Council of East Africa (IUCEA).

Biomagnification of radionuclides, heavy metals and organo-chlorines in the food chain from marine environment along the coast of Tanzania

Bioaccumulation of heavy metals (Pb, Cd, Zn and Cu) and their Hsp 70 and Metallothionein expression in blood cockles, *Anadara antiquata* L. 1758 (Bivalvia: Arcidae) along the coastal areas of Tanzania

Enhancing Regional Capability for the Assessment of Contamination in the Marine Environment. Project Number: RAF/7/008

Supporting an Integrated Approach for Marine Pollution Monitoring Using Nuclear Analytical Techniques. Project number RAF/7/009

Strengthening Regional Capacities for Marine Risk Assessment Using Nuclear and Related Techniques. Project number RAF7015 (Ongoing)

PUBLICATIONS

1. Dativa J. Shilla & **Daniel Abel Shilla**, 2012. Effects of riparian vegetation and bottom substrate on macroinvertebrate communities at selected sites in the Otara Creek, New Zealand, *Journal of Integrative Environmental Sciences*, 9 (3): 131-150
2. **Shilla, D. A.** and Dativa J., 2011. Speciation of heavy metals in sediments from the Scheldt estuary, Belgium. *Chemistry and Ecology*. 27 (1): 1-11.
3. Dativa J. Shilla, Makoto Tsuchiya & **Daniel A. Shilla** (2011): Terrigenous nutrient and organic matter in a subtropical river estuary, Okinawa, Japan: origin, distribution and pattern across the estuarine salinity gradient, *Chemistry and Ecology*, 27: 6, 523-542
4. Dativa, J., and **Shilla, D.A.**, 2011. The effects of catchment land use on water quality and macroinvertebrate communities in Otara creek, New Zealand. *Chemistry and Ecology*. 27 (5): 445-460.
5. **Daniel Abel Shilla**, Takashi Asaeda, Martin Kalibbala, 2009. Phosphorus speciation in Myall Lake sediment, NSW, Australia. *Wetlands Ecology and Management* 17 (2): 85-91.
6. **Shilla, D. A.**, Qadah, D., Kalibbala, M., 2008. Distribution of heavy metals in dissolved, particulate and biota in the Scheldt estuary, Belgium. *Journal of Chemistry and Ecology*. 24 (1): 61 – 74
7. Martin, K., Aloyce W. M., Takashi A., and **Shilla D. A.**, 2008. Modelling faecal streptococci mortality in constructed wetlands implanted with *Eichhornia crassipes*. *Wetlands Ecology and Management*. 16 (6) 499-510.
8. **Shilla, D. A.**, and Dativa Joseph, 2008. Biomass dynamics of charophyte-dominated submerged macrophyte communities in Myall Lake, NSW, Australia. *Chemistry and Ecology* 24 (5): 367 – 377
9. **Daniel Shilla**, Takashi Asaeda, Takeshi Fujino, Brian Sanderson, 2006. Decomposition of dominant submerged macrophytes: Implications for nutrient release in Myall Lake, NSW, Australia. *Wetlands Ecology and Management*. 14 (5): 427-433.
10. **Shilla, D. A.**, Takashi, A., Kian, S., Hemantha L. R., Manatunge, J., 2006. Phosphorus concentration in sediment, water and tissues of three submerged macrophytes of Myall Lake, Australia. *Wetlands Ecol Manage*. 14 (6): 549-558.
11. **D. Shilla** (2014). Fluxes and retention of nutrients and organic carbon in Manko estuary, Okinawa, Japan: influence of river discharge variations, *Advances in Oceanography and Limnology*. 5 (2), 141-163
12. **D. Shilla** (2014). Chemical and isotopic composition of estuarine organic matter: implications for the relative contribution and reactivity of anthropogenic sources of organic matter, *Advances in Oceanography and Limnology*. 5 (2), 164-183
13. **Daniel Abel Shilla** (2016). Distribution of Pb, Cr, Cu and Zn in the marine coastal region of Zanzibar (Tanzanian archipelago, East Africa), *Chemistry and Ecology*, DOI: 10.1080/02757540.2016.1178727