

Mr. Emmanuel Rasiel Ollotu

Assistant Lecturer



Emmanuel Rasiel Ollotu is an assistant lecturer at Mkwawa University College of Education (MUCE): a constituent College of the University of Dar es Salaam. His research interest is related to harvesting, storage and efficient use of energy. Currently, in his PhD at the University of Dar es Salaam, he researches on bifacial solar cells based on abundant, low cost, and environmentally friendly absorber materials. Previously, he studied his M.Sc. Physics at the same University, in which, he researched on low emissivity window coatings using low cost materials for efficient use of energy. Prior joining MUCE, he pursued his Bachelor of Education in Science at the same university and diploma in Education at Moduli teachers college, and carried teaching in several schools in Tanzania. He teaches several courses in Physics, and has carried out several consultancy activities with Ministry of Education, Science and Technology, and Tanzania Institute of Education in teaching and learning of physics in Tanzania.

Curriculum Vitae (CV)

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Area of Specialization: Materials for energy harvesting, storage and efficient use.

Selected publications:

Ollotu, E. R., Samiji, M. E and Kivaisi, R.T (2014). Influence of Films Thickness on Optical Properties of Nb-Doped TiO₂ (NTO) Thin Films Deposited by DC Reactive Magnetron Sputtering. International Journal of Nano Science and Technology 2 (1), 1-10.

Ollotu, E. R., Samiji, M. E and Kivaisi, R.T (2013). Influence of Oxygen/Argon flow rate on Optical Properties of Nb-Doped TiO₂ (NTO) Thin Films Deposited by DC Reactive Magnetron Sputtering. Proceedings of 1st Young Scientists' MSSEESA conference on material Science and Solar Cell Technology, United Club Kenya, on 28-29 November, 2013, Nairobi, Kenya.

Ollotu, E.R (2012). Investigation of optical properties of Nb-dopedTiO₂ thin films prepared by dc magnetron sputtering; a dissertation submitted in fulfilment of the requirements for the degree of Master of Science (Physics) of the University of Dar es Salaam, available MUCE library.

Presentations:

Ollotu, E.R., Samiji, M.E and Mlyuka, N.R (2017). Prospects of Kesterite Solar Cells for African Countries: A Review and SWOT Analysis. 2nd MSSEESA Conference (2017), Dar es Salaam, Tanzania.

Ollotu, E. R., Samiji, M. E and Kivaisi, R.T. Influence of Oxygen/Argon Flow Ratio on the Optical Properties of Nb-doped TiO₂ Thin Films Prepared by DC Magnetron Sputtering. Quantum Africa-2, South Africa (2012).

Ollotu, E. R., Samiji, M. E and Kivaisi, R.T. Influence of Oxygen/Argon Flow Ratio on the Optical Properties of Nb-doped TiO₂ Thin Films Prepared by DC Magnetron Sputtering. IONS Africa-1, South Africa (2012).

Ollotu, E. R., Samiji, M. E and Kivaisi, R.T. Influence of Films Thickness on Optical Properties of Nb-Doped TiO₂ (NTO) Thin Films Deposited by DC Reactive Magnetron Sputtering. 1st Young Scientists' MSSEESA conference, Kenya (2013).

Consultancy activities:

Review and facilitate physics content materials during “retooling” of science teachers: A Science and Technology Higher Education Project, Tanzania.

Editorial work of physics textbook manuscript for secondary schools in Tanzania: Tanzania Institute of Education (TIE).

Affiliations/Associations:

Tanzania Physical Society (TPS)

Tanzania Journal of Science (TJS)

Materials Research Society (MRS)

African Network for Solar Energy (ANSOLE)