



**Talam Enock Kibona** holds PhD in Sustainable Energy Science and Engineering of the Nelson Mandela African Institution of Science and Technology (NM-AIST) specializing in Renewable energy. He pursued his M.Sc (Physics), and B.Sc (Physics and Mathematics) at University of Dar es Salaam. He is a lecturer in the Department of Mathematics, Physics and Informatics at Mkwawa University College of Education (A Constituent College of University of Dar es Salaam). As a lecturer he is responsible for teaching physics undergraduate courses and supervising physics projects as well as physics experiments. His research interest focus on Renewable energy, Materials/ nanomaterials for energy storage and conversion, Thermal storage and Environmental remediation. Currently, he is working on synthesizing and characterizing nanostructured materials for storage of intermittent renewable energies and other environmental applications. He has published in prestigious journals including materials today family journals. He can be contacted through: Mkwawa University College of Education, P. O. Box 2513 Iringa, Tanzania, cell +255 764 409 640. Email: [kibona@muce.ac.tz](mailto:kibona@muce.ac.tz)/ [kinonatalam@gmail.com](mailto:kinonatalam@gmail.com)

## Selected Publications

- i. **Talam. E. Kibona**, G.N Shao, Hee. T. Kim, C. K. Kingondu, (2019). “Specific capacitance pore texture relationship of biogas slurry mesoporous carbon/MnO<sub>2</sub> composite electrodes for supercapacitors” *Nano-Structures & Nano-Objects*, Volume 17 Pages 21-33  
<https://doi.org/10.1016/j.nanoso.2018.10.002>
- ii. **Talam. E Kibona**, C. K. Kingondu, A. Pogrebnoi (2018) “Effect of biogas-slurry pyrolysis temperature on specific capacitance” *Materials Today: Proceedings* Volume 5, Issue 4, Part 2, 2018, Pages 10611-10620 <https://doi.org/10.1016/j.matpr.2017.12.394>
- iii. **Talam. E Kibona**, C. K. Kingondu, A. Pogrebnoi, Y. A. C. Jande (2017) “Biogas-slurry derived mesoporous carbon for supercapacitor Applications” *Materials Today Energy* 5 (2017) 126-137 <https://doi.org/10.1016/j.mtener.2017.06.006>
- iv. **Talam.E Kibona**, C.K King'ondu, A. Pogrebnoi, Y.A.C (2017) Jande “Status of Biomass Derived Carbon Materials for Supercapacitor Application” *International Journal of Electrochemistry* <https://doi.org/10.1155/2017/6453420>
- v. E. Makauki , C.K. King'ondu, **Talam.E Kibona** “Hydrogen sulfide and ammonia removal from biogas using water hyacinth-derived carbon nanomaterials” *African journal of environmental science and technology* Vol.11(7), pp. 375-383, DOI: 10.5897/AJEST2016.2246
- vi. **Talam E. Kibona** and Kainkwa R.M.R, (2013) “Performance Characteristics of Some Small Scale Wind Turbines Fabricated in Tanzania”, *International Journal of Mathematical, Computational, Physical, Electrical and Computer Engineering* Vol:7, No:11, 2013.waset.org/publication/17397.

## Conferences and Summer Schools Attended

- i. The Workshop on Solar Energy Materials for Energy Need in Africa, in Honor of the late Prof. Rogath Kivaisi and 2<sup>nd</sup> MSEESA Conference Organized by Physics Department, University of Dar es salaam at Blue Pearl Hotel, Dar es Salaam, Tanzania from October 30<sup>th</sup> – 2<sup>nd</sup> November, 2017
- ii. 1<sup>st</sup> Africa Energy Materials conference (AEM-2017), Pretoria South Africa, 28-31 March 2017.
- iii. International summer school on Materials for sustainable energy under Joint-US-Africa Materials Energy (JUAMI) 2016
- iv. Renewable Energies for Africa: Solar Energy and its Applications training program From July 13-18 at Nelson Mandela African Institution of Science and Technology (NM\_AIST) Arusha Tanzania 2015
- v. The 2<sup>nd</sup> International Conference on Mechanical and industrial Engineering “Engineering Innovations for Sustainable Development” MIE 2012 16-17 February 2012
- vi. The 1<sup>st</sup> International Conference on Solar Energy Materials research. Belinda Ocean resort Dar es Salaam, Tanzania October 13-15, 2009

## Research Fellowship

- Awarded Research Training Fellowship for Developing Countries Scientists (RTF-DCS) offered by Non Alignment Movement (NAM) at CSIR –National Aerospace Laboratories, Bangalore (India)

