



Juma A. Mmongoyo, PhD
Head, Department of Chemistry 2016-present
Lecturer of Organic Chemistry, Food Chemistry, and Food Safety
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Degrees

Ph.D. Food Science: Michigan State University, 2016
M.Sc. Chemistry: University of Dar es Salaam, 2011
B.Sc. Ed. Chemistry and Biology: University of Dar es Salaam, 2007

Research Interest

Organic synthesis using renewable, and biodegradable cashew nut shell oil natural resources; natural product chemistry focusing on discovery of novel bioactive compounds against aflatoxigenic fungi; mycotoxin surveys and analyses in food systems for food safety; Environmental and Food Risk Assessments; functionalization of foods; and Antioxidants Chemistry.

Instructional Activities

Teaches undergraduate courses: CH 117-Organic Chemistry I (12 credits), and CH 323-Organic Spectroscopy (8 credits). Also, teaches postgraduate course: CH 611-Heterocyclic Chemistry (8 credits).

Recent Publications

1. **J. A. Mmongoyo**, M.G. Nair, J. E. Linz, F. Wu, J. K. Mugula, A. A. Dissanayake, C. Zhang, D. M. Day, J. M. Wee and G. M. Strasburg (2017), Bioactive compounds in *Diospyros mafiensis* roots inhibit growth, sporulation and aflatoxin production by *Aspergillus flavus* and *Aspergillus parasiticus*, *World Mycotoxin Journal*, 2017, 10 (3): 237-248.
2. **J.A. Mmongoyo**, F. Wu, J. E. Linz, M. G. Nair, J. K. Mugula, R. J. Tempelman, G. M. Strasburg (2017), Aflatoxin Levels in Sunflower Seeds and Cakes Collected from

Micro- and Small-Scale Sunflower Oil Processors in Tanzania. PLoS ONE 12(4): e0175801. <https://doi.org/10.1371/journal.pone.0175801>.

3. **J. A. Mmongoyo**, Q. A. Mgani, S. J. M. Mdachi, P. J. Pogorzelec, and D. J. Cole-Hamilton (2012), Synthesis of a kairomone and other chemicals from cardanol, a renewable resource. *European Journal of Lipid Science and Technology*, 114(10), 1183–1192. doi:10.1002/ejlt.201200097.