Dr. Gloria Mathanda Ankar-Brewoo

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RESEARCH

Interests	Food safety · Food packaging · Food Service · Food Toxicology · Food Analysis
Areas	Food Science · Nutrition and Dietetics · Health, Toxicology and Mutagenesis · Organic Chemistry · Animal Science and Zoology · Plant Science

RESEARCH SUMMARY

30	273	9	8	1.07	6%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 30 publications listed below, 2009–2026. Field-weighted impact is the mean over the 17 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 17 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2006–present
Food Science, KNUST, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2012–present
Food Science, KNUST, Kumasi, Ghana

PUBLICATIONS

Journal articles 30

1. **Gloria Ankar-Brewoo** (2026). Assessment of Food Safety Knowledge, Attitudes, and Practices of Commercial Salad Vegetable Farmers in the Eastern Region of Ghana. *Food Protection Trends*. https://www.academia.edu/download/132386674/Published_Paper_6.pdf
2. Regina Ofori Asante, **Gloria Mathanda Ankar-Brewoo**, Mina Ofosu (2026). Molecular Characterization and Public Health Implications of Fungal Contaminants in Farm-Fresh Salad Vegetables From Ghana. *International Journal of Food Science*. https://doi.org/10.1155/ijfo/9207303
3. Amos O. Anim, Herman Erick Lutterodt, Caleb William Ofori, Ivy Oduro-Boateng, Justina Achiaa Bonsu, **Gloria M. Ankar-Brewoo**, Linda Nana Esi Aduku, Charles Apprey, Reginald Adjetey Annan (2025). The impact of agricultural practices on food composition – A systematic review. *Journal of Food Composition and Analysis*. https://doi.org/10.1016/j.jfca.2025.108388
4. Daniel Sitsofe Yabani, Isaac Williams Ofosu, **Gloria Mathanda Ankar-Brewoo**, Herman Erick Lutterodt (2024). 3-Monochloropropandiol and glycidyl esters in heat-processed oil-based food products: Exposure and risk. *Applied Food Research*. https://doi.org/10.1016/j.afres.2024.100393
5. Afia Sakyiwaa Amponsah, **Gloria Mathanda Ankar-Brewoo**, Herman Erick Lutterodt, Isaac Williams Ofosu (2024). Assessing the microbial diversity and proximate composition of smoked-fermented bushmeat from four different bushmeat samples. *Biotechnologia*. https://doi.org/10.5114/bta.2024.135637
6. Daniel Sitsofe Yabani, Isaac Williams Ofosu, **Gloria Mathanda Ankar-Brewoo**, Herman Erick Lutterodt

(2024). Exposure to Dietary Glycidyl and 3-MCPD Fatty Acid Esters and Associated Burden of Cancer in Selected Asian and European Countries: A Review and Data Synthesis. *Environmental Health Insights*. https://doi.org/10.1177/11786302241277628

7. Daniel Sitsofe Yabani, Isaac Williams Ofosu, **Gloria Mathanda Ankar-Brewoo**, Herman Erick Lutterodt (2024). Occurrence of 3-monochloropropane-1,2-diol and glycidyl esters in artisanal vegetable edible oils. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e34680
8. A. S. Amponsah, H. E. Lutterodt, **G. M. Ankar-Brewoo**, I. W. Ofosu (2024). Smoked and Fermented Bushmeat (Mpunam) Products: Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) Resulting From Processing. *International Journal of Food Science*. https://doi.org/10.1155/2024/5514988
9. Daniel Sitsofe Yabani, Isaac Williams Ofosu, **Gloria Mathanda Ankar-Brewoo**, Herman Erick Lutterodt (2024). Toxicity of Dietary Exposure to 3-Monochloropropanediol, Glycidol, and Their Fatty Acid Esters. *Journal of Food Quality*. https://doi.org/10.1155/2024/7913820
10. Naa Kwarley-Aba Quartey, Isaac Williams Ofosu, **Gloria Mathanda Ankar-Brewoo**, Herman Erick Lutterodt, William Otoo Ellis (2024). Zearalenone-Contaminated Cereals in African Communities, Probabilistic Exposures and Adverse-Health Outcomes: A Meta-Analysis. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v42i1.4
11. Priscilla Akwaboah Oduro, **Gloria Ankar-Brewoo**, Matt Dodd, Eugene Ansah, Cynthia Darko, Lawrence Sheringham Borquaye, Godfred Darko (2023). Health risks of potentially toxic metals in cereal-based breakfast meals in the Kumasi Metropolis, Ghana. *Discover Food*. https://doi.org/10.1007/s44187-023-00067-3
12. Shadrach Yankey, Eric Owusu Mensah, **Gloria M. Ankar-Brewoo**, William Otto Ellis (2023). Optimized fermentation conditions for dragon fruit yogurt. *Food and Humanity*. https://doi.org/10.1016/j.foohum.2023.06.012
13. IW Ofosu, **GM Ankar-Brewoo**, HE Lutterodt (2022). Cooked rice products (Kwenkwen, Jollof, Fried-rice, Angwamo and Kanzo) as sources of polyaromatic hydrocarbons and a potential public health concern. *J Food Nutr Res*. https://scholar.google.com/scholar?cluster=17806480419789386210&hl=en&oi=scholarr
14. **GM Ankar-Brewoo**, G Darko, RC Abaidoo (2022). Dietary risk assessment due to the consumption of polycyclic aromatic hydrocarbon in two commonly consumed street vended foods. *Polycyclic Aromatic Compounds*.
15. **Gloria Mathanda Ankar-Brewoo**, Godfred Darko, Robert Clement Abaidoo, Anders Dalsgaard, Paa-Nii Johnson, William Otoo Ellis, Leon Brimer (2020). Dietary Risk Assessment Due to the Consumption of Polycyclic Aromatic Hydrocarbon in Two Commonly Consumed Street Vended Foods. *Polycyclic aromatic compounds*. https://doi.org/10.1080/10406638.2020.1830128
16. **Gloria Mathanda Ankar-Brewoo**, Godfred Darko, Robert Clement Abaidoo, Anders Dalsgaard, Paa-Nii Johnson, William Otoo Ellis, Leon Brimer (2020). Health risks of toxic metals (Al, Fe and Pb) in two common street vended foods, fufu and fried-rice, in Kumasi, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00289
17. **GM Ankar-Brewoo**, B Arko-Boham, Elvis O Ameyaw, A Banunle, Robert P Biney, Evans Asenso, Isaac T Henneh, Ama K Thomford, Madison Adanusa (2020). Scientific African. *Carbon*. https://www.researchgate.net/profile/Hamza-Zine/publication/346551011_Guidelines_for_a_phytomanagement_plan_by_the_phytostabilization_of_mining_wastes/links/5fcfd13392851c00f85f0f28/Guidelines-for-a-phytomanagement-plan-by-the-phytostabilization-of-mining-wastes.pdf
18. Isaac W. Ofosu, **Gloria M. Ankar-Brewoo**, Herman E. Lutterodt, Edmund O. Benefo, Celestina A. Menyah (2019). Estimated daily intake and risk of prevailing acrylamide content of alkalized roasted cocoa beans. *Scientific African*. https://doi.org/10.1016/j.sciaf.2019.e00176
19. **GM Ankar-Brewoo** (2019). Health risks associated with lead exposure in frequently consumed foods. *Archivos de Medicina*. https://www.researchgate.net/profile/Edmund-Benefo/publication/338396943_Health_risks_associated_with_lead_exposure_in_frequently_consumed_foods/links/5e1243aa92851c8364b26ef8/Health-risks-associated-with-lead-exposure-in-frequently-consumed-

foods.pdf

20. William Ofori Appaw, IW Ofosu, HE Lutterodt, **GM Ankar-Brewoo** (2018). Acrylamide exposure and risks in most frequently consumed foods in a total diet study. *American Journal of Food Science and Technology*. https://www.academia.edu/download/77994590/AJFST-6-4-1.pdf
21. **GM Ankar-Brewoo** (2014). Functional properties of protein isolate from fern fronds. *International Food Research Journal*. https://openurl.ebsco.com/contentitem/gcd:98273572?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:98273572&crl=c&jrnl=19854668
22. **GM Ankar-Brewoo** (2014). Optimization of protein extraction from fern frond using response surface methodology (RSM). *Ife J Sci*. https://scholar.google.com/scholar?cluster=6637680503071804285&hl=en&oi=scholarr
23. I Oduro, P Twumasi, MA Tandoh, **G Ankar-Brewoo** (2013). Formulation and sensory evaluation of herb tea from Moringa oleifera, Hibiscus sabdariffa and Cymbopogon citratus. *J. Ghana Sci. Assoc*. https://ghanascience.gov.gh/wp-content/uploads/2018/03/6-1.pdf
24. **Gloria Ankar-Brewoo**, Robert Abaidoo, Olajire Fagbola, Robert Asiedu (2012). Diversity of arbuscular mycorrhizal fungi in soils of yam (Dioscoreaspp.) cropping systems in four agroecologies of Nigeria. *Archives of Agronomy and Soil Science*. https://doi.org/10.1080/03650340.2011.653682
25. R. S. Glew, B. Amoako-Atta, **G. Ankar-Brewoo**, J. M. Presley, Y.-C. Chang, L.-T. Chuang, M. Millson, B. R. Smith, R. H. Glew (2010). An Indigenous Plant Food Used by Lactating Mothers in West Africa: The Nutrient Composition of the Leaves ofKigelia Africanain Ghana. *Ecology of Food and Nutrition*. https://doi.org/10.1080/03670240903433303
26. **Gloria Ankar-Brewoo** (2010). Effect of irradiation on inoculated Salmonella parathyphi B and the colour of freeze-dried egg yolk. *African Journal of Food Science*. https://www.academia.edu/download/100314729/article1380731756_Ofuso_20et_20al.pdf
27. R.S. Glew, B. Amoako-Atta, **G. Ankar-Brewoo**, J. Presley, L-T. Chuang, M. Millson, B.R. Smith, R.H. Glew (2010). Furthering an understanding of West African plant foods. *British Food Journal*. https://doi.org/10.1108/00070701011080230
28. **G Ankar-Brewoo** (2009). Non-cultivated plant foods in West Africa: Nutritional analysis of the leaves of three indigenous leafy vegetables in Ghana. *Food*. https://www.academia.edu/download/99357511/FOOD_3139-42o.pdf
29. **GM Ankar-Brewoo**, I Oduro (2009). Quantitative Descriptive Sensory Analysis of the Performance of Pregelatinised. *Pakistan Journal of Nutrition*. https://www.academia.edu/download/50186123/Ofosu_et_al_2009_QDSA_on_the_performance_of_pregelatinsed_starch_in_bread.pdf
30. **Gloria Ankar-Brewoo** (2009). Quantitative descriptive sensory analysis of the performance of pregelatinised starch-protein admixtures as fat mimetic in wheat bread. *Pakistan Journal of Nutrition*. https://www.academia.edu/download/43873735/Quantitative_Descriptive_Sensory_Analysi20160318-417-129tupx.pdf