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RESEARCH

Interests	Food Science and Technology · Postharvest Technology · Processing of Agricultural Produce · Value
Areas	Plant Science · Food Science · Forestry · Pharmacology · Agronomy and Crop Science · Biochemistry

RESEARCH SUMMARY

44	729	11	11	0.82	4%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 44 publications listed below, 1998–2026. Field-weighted impact is the mean over the 24 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 24 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 43

1. John Mbugri Azasiba, Issah Sugri, Peter Asungre, **Francis Appiah**, Eli Gaveh, Salim Lamini, Patrick Attamah, Ebenezer Asamani, Francis Kusi (2026). Harvest timing as a determinant of grain mould development and postharvest quality losses in sorghum (Sorghum bicolor (L.) moench) under smallholder storage systems in Northern Ghana. *Journal of Stored Products Research*. https://doi.org/10.1016/j.jspr.2026.103164
2. IA Idun, **F Appiah** (2026). Impact of different nonthermal pretreatments on Ghanaian turmeric: Insights from the metabolomes and quality characteristics of the dried samples. *Food and Humanity*. https://www.sciencedirect.com/science/article/pii/S294982442600128X
3. Eric Antiri Aforo, Richard Osae, Maurice Tibiru Apaliya, Irene Akua Idun, Emmanuel Kwaw, Raphael N. Alolga, **Francis Appiah** (2026). Influence of different drying techniques on the quality and physicochemical properties of Ghana-sourced turmeric (Curcuma longa L.) samples. *JSFA reports*. https://doi.org/10.1002/jsf2.70062
4. Sandra Ama Kaburi, Gifty Serwaa Otoo, Lariba Cecilia Azumah, Naa Korkoi Ewudzie, Bertina Nyame, Anup Kodape, Francis Padi Lamptey, **Francis Appiah**, Ernest Teye (2026). Pre- and post-harvest practices, aflatoxin risk, and food security under two agroecological zones in Ghana. *Food Safety and Risk*. https://doi.org/10.1186/s40550-026-00148-y
5. Justice Amponash, Patrick KUMAH, **Francis APPIAH**, Irene Akua IDUN, Paul Kweku TANDOH (2025). Influence of paclobutrazol concentrations, soil types and production seasons on physicochemical attributes of Keitt mangoes. *Journal of Applied Life Sciences and Environment*. https://doi.org/10.46909/alse-581167
6. Sandra Ama Kaburi, Rita Elsie Sanful, Lariba Cecilia Azumah, Francis Padi Lamptey, Gifty Serwaa Otoo, Bertina Nyame, Patrick Kumah, **Francis Appiah** (2025). Interactive effect of biological control (Aflasafe GH02) and different packaging types on aflatoxin levels in maize grain in two ecological zones. *PLOS Sustainability and Transformation*. https://doi.org/10.1371/journal.pstr.0000160
7. Baba Mamudu, Cristina García-Viguera, Diego A. Moreno, Eli Gaveh, **Francis Appiah**, Irene Idun, Sonia Medina, Raúl Domínguez-Perles (2025). Soil Amendment with Poultry Manure, Biochar, and Coenzyme A

Enhances Yield and Nutritional Composition of Moringa oleifera Lam. *Foods*. https://doi.org/10.3390/foods14203527

8. Sifon M. Ekom-Effeng, Peter Odira Nweke, Hilda Afeku-Amenyo, Emmanuel Ekwuoba Emeka, Daniel D. Wumani, Samuel Johnson, Olasupo Modupe Adegoke, **Francis Amo Appiah** (2025). Strategic Integration of HR Analytics, Talent Management and Workforce Planning in Driving Employee Engagement in Nigeria's Emerging Tech Industry. *European Journal of Applied Science Engineering and Technology*. https://doi.org/10.59324/ejaset.2025.3(6).20
9. Dhailly Araba Arkorful, **Francis Appiah**, John Owusu, Ebenezer Nartey, Isaac Darban (2024). Effect of Prefermentation Treatment on the Bioactive Compounds of Noni (Morinda citrifolia L.) Juice. *Journal of Food Processing and Preservation*. https://doi.org/10.1155/2024/7605531
10. Emmanuel Kwaku Asamani, Bonaventure Kissinger Maalekuu, Patrick Kumah, **Francis Appiah** (2024). Effect of Varieties, Solar Drying and Zeer Pot Refrigeration Lining Media on Physico – Chemical Characteristics of Chili Pepper Fruits. *European Journal of Nutrition & Food Safety*. https://doi.org/10.9734/ejnfs/2024/v16i41416
11. Sandra Ama Kaburi, **Francis Appiah**, Francis Padi Lamptey, Gifty Serwaa Otoo (2023). Controlling aflatoxin in maize: The effects of varieties, packaging materials, and agroecological zones. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e21645
12. Emmanuel Nunoo Lartey, **Francis Appiah** (2023). Effect of Different Concentrations of 1-MCP and Varied Storage Environments on Physical Characteristics and Consumer Acceptability of Solo Papaya (Carica papaya L.) Fruits. *Asian Journal of Advanced Research and Reports*. https://doi.org/10.9734/ajarr/2023/v17i8503
13. Sandra Ama Kaburi, Francis Padi Lamptey, Gifty Serwaa Otoo, **Francis Appiah** (2023). Effectiveness of some aflatoxin interventions in reducing the aflatoxin contamination of maize in Ghana. *Journal of Food Technology Research*. https://doi.org/10.18488/jftr.v10i2.3483
14. Sandra Ama Kaburi, **Francis Appiah**, Francis Padi Lamptey, Maurice Tibiru Apaliya (2023). Evidence of the effect of pre and postharvest practices on aflatoxin contamination in the Forest and Savannah ecozones of Ghana. *Journal of Agriculture and Food Research*. https://doi.org/10.1016/j.jafr.2023.100831
15. Sandra Ama Kaburi, Francis Padi Lamptey, Gifty Serwaa Otoo, Bertina Nyame, **Francis Appiah**, Theophilus Frimpong Adu (2022). Effects of Three Different Rates of Application of Cattle Dung on the Growth and Quality of Two Traditional Leafy Vegetables (Amaranthus Cruentus and Corchorus Olitorius). *Journal of Food Technology Research*. https://doi.org/10.18488/jftr.v9i4.3234
16. **Appiah Francis** (2022). Performance Evaluation of a Centrifuge Type Grain Cleaning Machine and its Effect on Chemical and Microbial Quality of Sorghum and Millet Grains. *International Journal of Nutrition and Food Sciences*. https://doi.org/10.11648/j.ijnfs.20221103.16
17. Daniel Osei Ofosu, **Francis Appiah**, Bernard Banful (2020). Interactive Effect of Variety and Irradiation Dose on Postharvest Behaviour of Fruits of Two Plantain (Musa sp AAB) Varieties from the Green Stage to the Onset of Ripening. *American Journal of Plant Sciences*. https://doi.org/10.4236/ajps.2020.113027
18. B. Amoasah, **F. Appiah**, P. Tandoh, E. Amoateng (2019). Effect of Different Drying Methods on the Mineral Content of Three Accessions of Roselle (Hibiscus sabdariffa) Calyces. *Asian Journal of Advanced Research and Reports*. https://doi.org/10.9734/ajarr/2019/v5i330133
19. B Amoasah, **F Appiah**, P Kumah (2018). Effects of Different Drying Methods on Proximate Composition of Three Accessions of Roselle (Hibiscus sabdariffa) Calyces. *International Journal of Plant & Soil Science*. https://doi.org/10.9734/ijpss/2018/38550
20. **F Appiah** (2015). Effect of Parboiling on the Quality of Processed Degan Rice (Oryza Spp). *International Journal of Sciences: Basic and Applied Research (IJSBAR)*. https://scholar.google.com/scholar?cluster=6834974250262454 65&hl=en&oi=scholarr
21. **F Appiah** (2015). Effect of harvest time and storage duration on physico-chemical properties of citrus (Citrus sinesis var. Late Valencia). *UDS International Journal of Development*. https://www.researchgate.net/profile/Mohammed-Sadick/publication/311675648_EFFECT_OF_HARVEST_TIME_AND_STORAGE_DURATION_ON_PHYSICO-

CHEMICAL_PROPERTIES_OF_CITRUS_CITRUS_SINESIS_VAR_LATE_VALENCIA/links/5853d80008ae95fd8e1ff23e/EFFECT-OF-HARVEST-TIME-AND-STORAGE-DURATION-ON-PHYSICO-CHEMICAL-PROPERTIES-OF-CITRUS-CITRUS-SINESIS-VAR-LATE-VALENCIA.pdf

22. **F Appiah** (2014). Evaluation of the performance of three drying technologies and three loading densities for the production of cassava chips. *XXIX International Horticultural Congress on Horticulture: Sustaining Lives, Livelihoods and Landscapes (IHC2014): 1123*. https://www.actahort.org/books/1123/1123_32.htm

23. **F Appiah**, I Oduro, WO Ellis (2014). Nutritional composition of breadfruits (Artocarpus spp. and Treculia africana) in Ghana. *XXIX International Horticultural Congress on Horticulture: Sustaining Lives, Livelihoods and Landscapes (IHC2014): 1128*. https://www.actahort.org/books/1128/1128_3.htm

24. CA Wongnaa, **F Appiah** (2014). Vegetable handling, distribution, and wholesale profitability in "Abinchi" night market, Kumasi-Ghana. *Journal of Postharvest Technology*. https://www.academia.edu/download/68281058/Vegetable_Handling_Distribution_and_Whol20210723-12623-jslxy1.pdf

25. **F Appiah**, I Oduro, WO Ellis, G Adu (2012). Comparative assessment of the performance of Parkia biglobosa, Glycine max and Treculia africana in the production of a local condiment (dawadawa) in Ghana. *African journal of food science*. https://academicjournals.org/journal/AJFS/article-full-text-pdf/DBE771711337.pdf

26. **Francis Appiah**, Patrick Kumah, David Oppong (2012). Predicting the Consumer Acceptability of Dried MD2 and Smooth Cayenne Pineapple Pulps from Chemical Composition. *Journal of Food Research*. https://doi.org/10.5539/jfr.v1n2p210

27. **F Appiah**, I Oduro, WO Ellis (2012). Predicting the digestibility of nutrients and energy values of 4 breadfruit varieties based on chemical analysis. *Pakistan Journal of Nutrition*. https://pjnonline.org/pjn/article/view/1631

28. **Francis Appiah** (2012). Quality response of cabbage (Brassica oleracea L . var . capitata) heads to different package sizes and precooling by shading. *African Journal of Food Science and Technology*..

29. **F Appiah** (2012). The Effect of the Development of a Rapid Response to Sanitory and Phytosanitory Concern System on Export Oriented Horticulture in Ghana. *Acta Horticulturae*. https://www.actahort.org/books/1007/1007_109.htm

30. Patrick Kumah, **Francis Appiah** (2011). Effect of hot water treatment on quality and shelf-life of Keitt mango. *Agriculture and Biology Journal of North America*. https://doi.org/10.5251/abjna.2011.2.5.806.817

31. **F Appiah**, P Kumah, I Idun (2011). Effect of ripening stage on composition, sensory qualities and acceptability of keitt mango (mangifera indica L.) chips. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.4314/ajfand.v11i5.70439

32. **F. Appiah**, I. Oduro (2011). Functional properties of Artocarpus altilis pulp flour as affected by fermentation. *Agriculture and Biology Journal of North America*. https://doi.org/10.5251/abjna.2011.2.5.773.779

33. **F. Appiah**, I. Oduro (2011). Pasting properties of Treculia africana seed flour in Ghana and the production of a breakfast meal. *Agriculture and Biology Journal of North America*. https://doi.org/10.5251/abjna.2011.2.2.325.329

34. **F Appiah**, P Kumah (2011). Physicochemical and functional properties of bean flours of three cowpea (Vigna unguiculata L. Walp) varieties in Ghana. *African Journal of Food Science*. https://academicjournals.org/journal/AJFS/article-full-text-pdf/51A61862852.pdf

35. **F Appiah** (2011). Physicochemical and functional properties of seeds of three local cowpea (Vigna unguilata L. Walp) cultivars in Ghana. *I All Africa Horticultural Congress*. https://doi.org/10.5555/20123003561

36. **Francis Appiah** (2011). Post harvest losses of rice from harvesting to milling in Ghana. *Journal of Stored Products and Postharvest Research*.

37. **F Appiah**, I Oduro, WO Ellis (2011). Proximate and mineral composition of Artocarpus altilis pulp flour as affected by fermentation. *Pakistan Journal of Nutrition*. https://pjnonline.org/pjn/article/view/1467

38. Clement Abugre, **Francis Appiah**, Patrick Kumah (2011). The effect of time of harvest and drying method

on the nutritional composition of spider flower (Cleome gynandra L). *International Journal of Postharvest Technology and Innovation*. https://doi.org/10.1504/ijpti.2011.043327

39. J Adubofuor, EA Amankwah, **F Appiah** (2010). Comparative study related to physico-chemical properties and sensory qualities of tomato juice and cocktail juice produced from oranges, tomatoes and carrots. *African Journal of Food Science*. https://www.academia.edu/download/50485524/Comparative_study_related_to_physico-che20161122-6484-yfj7cv.pdf

40. P Kumah, **F Appiah** (2010). Pesticides usage in cabbage (Brassica oleracea) cultivation in the forest ecozone of Ghana. *International Symposium on Urban and Peri-Urban Horticulture in the Century of Cities: Lessons, Challenges, Opportunitites 1021*. https://www.actahort.org/books/1021/1021_37.htm

41. **F Appiah**, P Kumah, I Idun (2009). Effect of ripening on eating quality of'Keitt'mango chips. *I All Africa Horticultural Congress 911*. https://www.actahort.org/books/911/911_64.htm

42. **F Appiah**, P Kumah (2009). Processing and Packaging Technology. *IDL, KNUST, Kumasi*. https://scholar.google.com/scholar?cluster=20162415662134268887&hl=en&oi=scholarr

43. **F. L. Appiah**, W.O. Ellis, J. Mathias, I. Oduro (1998). Studies on Traditional Cheese (Woagashie) Production in the Ashanti Region. *Journal of the Ghana Science Association*. https://doi.org/10.4314/jgsa.v1i1.17790

Conference papers 1

1. **Francis Appiah**, P Kumah, I Idun (2011). Adoption of Beneficial Management Practices for Dry Season Vegetable Production in Rural Ghana. *HORTSCIENCE*. https://scholar.google.com/scholar?cluster=13392378301506410 14&hl=en&oi=scholarr