Elvis Asare-Bediako

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RESEARCH

Interests	Plant virology · plant pathology · Crop Protection
Areas	Plant Science · Agronomy and Crop Science · Insect Science · Endocrinology · Genetics · Horticulture

RESEARCH SUMMARY

67	804	15	25	1.16	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 67 publications listed below, 2006–2026. Field-weighted impact is the mean over the 43 works scored for it; 1.00 is the world average for works of the same field, type and year. 6 of the 43 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 61

1. Gilbert Ansah, Harry M. Amoatey, Vivian Oduro, Godwin Amenorpe, **Elvis Asare-Bediako**, Emmanuel Afutu, Alfred A. Darkwa, Doris A. Dzimega, Rosemary Kusi-Adjei, Emmanuel K. Quartey, Joseph Nunoo, Kwadwo Owusu Ayeh, Nusrat Tsemah Afful, Samuel Amiteye (2026). Combining ability, maternal and reciprocal effects for growth traits, total carotenoids and beta carotene in yellow maize (Zea mays L.). *Australian Journal of Crop Science*. https://doi.org/10.21475/ajcs.26.20.02.p161x
2. Doris Mensah-Wonkyi, Wilfred Elegba, Emmanuel Ogyiri Adu, Andrew Sarkodie Appiah, Rosemary Kusi-Adjei, **Elvis Asare-Bediako**, Grace. C. van der Puije, Joshua Yeboah Asiamah, Asamoah Oppong Zadok, Kofi Afari, Josiah Wilson Tachie-Menson, Aaron Tettey Asare (2026). Prevalence of Cassava Mosaic Geminiviruses in the Volta Region of Ghana. *The Open Agriculture Journal*. https://doi.org/10.2174/0118743315450389260319070029
3. Felix Kuor, Michael Osei Adu, Daniel Nyadanu, Richard Adu Amoah, Emmanuel Yaw Owusu, **Elvis Asare-Bediako**, Paul Agu Asare (2025). Assessment of breeding value and gene action of okra germplasm for tolerance to Podagrica species, okra leaf curl and mosaic virus diseases. *Ecological Genetics and Genomics*. https://doi.org/10.1016/j.egg.2025.100358
4. KWADWO OWUSU AYEH, **Elvis Asare-Bediako** (2025). Assessment of the genetic diversity in putative cowpea mutants using hierarchical clustering and principal component analysis. *African Journal of Biotechnology*. https://journal-backups.lon1.digitaloceanspaces.com/uploads/main/article/a8d429873310.pdf
5. A Yusif, NT Afful, R Kusi-Adjei, C Annor, EA Obeng, RM Yeboah, FCK Ocloo, **E Asare-Bediako**, AA Darkwa, E Afutu, KO Ayeh, AS Appiah, G Amenorpe, S Amiteye (2025). Farmer Knowledge and Incidence of Taro Leaf Blight Disease in Major Taro-growing Regions of Ghana. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.18697/ajfand.144.25130
6. Ackah Frank Kwekucher, Van der Puije Grace Caselina, **Asare-Bediako Elvis**, DICK YAW ACHEAMPONG-ANDOH (2025). In vitro Evaluation of the Effectiveness of Commonly Used Fungicides against Phytophthora colocasiae in Ghana. *Journal of Experimental Agriculture International*. https://doi.org/10.9734/jeai/2025/v47i63504
7. Godwin Amenorpe, Kwabena Darkwa, Emmanuel Ogyiri Adu, Paul Agu Asare, Kingsley Joseph Taah, Doris

Mensah-Wonkyi, Alfred Anthony Darkwa, **Elvis Asare-Bediako**, Peter Iluebbey, Elizabeth Yaa Parkes (2025). Interaction Between Yellow Flesh Cassava Genotypes and Environmental Conditions Across Three Agro-Ecological Zones in Ghana. *Journal of Agricultural Science*. https://doi.org/10.5539/jas.v17n8p90

8. Esther Marfo-Ahenkora, Godwin Y. Ameleke, Kingsley J. Taah, **Elvis Asare-Bediako**, Charles Y.F. Domozoro (2024). Economic Effects of Using Improved Maize Varieties, Inorganic Fertilizer and Goat Manure in Smallholder Farms: Evidence from Field Evaluations in Southern Ghana. *Research on World Agricultural Economy*. https://doi.org/10.36956/rwae.v6i1.1365
9. Yayra Afram, Godwin Amenorpe, **Elvis Asare Bediako**, Alfred A. Darkwa, Siphiwokuhle Funani Shandu, Maryke T. Labuschagne, Isaac Kodzo Amegbor (2024). Induction of genetic variability of maize genotypes through radiation revealed mutants resistant to maize streak disease. *Applied Radiation and Isotopes*. https://doi.org/10.1016/j.apradiso.2024.111279
10. Andrew Sarkodie Appiah, Jonathan Amponsah, Nusrat Tsemah Afful, Fidelis Ocloo, Samuel Amiteye, Mark Kwasi Sarfo, Rosemary Kusi-Adjei, Solomon Ayeboafo Otu, Clement Annor, Kwadwo Owusu Ayeh, **Elvis Asare-Bediako** (2024). Reduction of Carbon Assimilation and Water Use Efficiency in Groundnut Ringspot Virus (GRSV)-Infected Groundnut Varieties. *European Journal of Biology and Biotechnology*. https://doi.org/10.24018/ejbio.2024.5.5.523
11. Yayra Afram, Godwin Amenorpe, **Elvis Asare Bediako**, Alfred A. Darkwa, Isaac Kodzo Amegbor (2023). Assessing the sensitivity of maize genotypes to gamma radiation for germination and physiological characteristics. *Journal of Environmental Radioactivity*. https://doi.org/10.1016/j.jenvrad.2023.107318
12. Patrick Kwabena Mensah, Vivian Akoto-Adjepong, Kwabena Adu, Mighty Abra Ayidzoe, **Elvis Asare Bediako**, Owusu Nyarko-Boateng, Samuel Boateng, Esther Fobi Donkor, Faiza Umar Bawah, Nicodemus Songose Awarayi, Peter Nimbe, Isaac Kofi Nti, Muntala Abdulai, Remember Roger Adjei, Michael Opoku, Suweidu Abdulai, Fred Amu-Mensah (2023). CCMT: Dataset for crop pest and disease detection. *Data in Brief*. https://doi.org/10.1016/j.dib.2023.109306
13. Ricardo J. G. Pimenta, Kyle Macleod, Robyn Babb, Kaitlyn Coleman, Joni MacDonald, **Elvis Asare-Bediako**, Max J. Newbert, Carol E. Jenner, John A. Walsh (2023). Genetic Variation of Turnip Yellows Virus in Arable and Vegetable Brassica Crops, Perennial Wild Brassicas, and Aphid Vectors Collected from the Plants. *Plant Disease*. https://doi.org/10.1094/pdis-05-23-0906-re
14. E. Marfo-Ahenkora, K. J. Taah, E. Owusu Danquah, **E. Asare-Bediako** (2023). On-Farm Experimentation with Improved Maize Seed and Soil Amendments in Southern Ghana: Productivity Effects in Small Holder Farms. *International Journal of Agronomy*. https://doi.org/10.1155/2023/1882121
15. Innocent Kwaku Dorvlo, Godwin Amenorpe, Harry Mensah Amoatey, Samuel Amiteye, Jacob Teye Kutufam, Emmanuel Afutu, **Elvis Asare-Bediako**, Alfred Anthony Darkwa (2022). Improvement in cowpea variety Videza for traits of extra earliness and higher seed yield. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e12059
16. **Elvis Asare-Bediako** (2021). Seasonal and spatial variation in the prevalence of viral diseases and associated aphid-borne viruses in cucurbits in Cote d'Ivoire (vol 62, pg 227, 2017). *ANNALS OF AGRICULTURAL SCIENCE*. https://scholar.google.com/scholar?cluster=11773537566882715083&hl=en&oi=scholarr
17. **E. Asare-Bediako**, J. Nyarko, G.C. van der Puije (2020). First report of Pineapple mealybug wilt associated virus-2 infecting pineapple in Ghana. *New Disease Reports*. https://doi.org/10.5197/j.2044-0588.2020.041.009
18. **Elvis Asare-Bediako** (2020). Identification and QTL mapping of resistance to Turnip yellows virus (TuYV) in oilseed rape, Brassica napus. *Theoretical and Applied Genetics*. https://doi.org/10.1007/s00122-019-03469-z
19. **Elvis Asare-Bediako**, KJ Taah, GC van der Puije, G Amenorpe, Ghana Atomic Energy Commission, Accra, Ghana, A Appiah Kubi, J Nee Lamptey, A Oppong, B Mochiah, I Adama (2020). Phenotypic and molecular evaluation of maize (Zea may L.) genotypes under field conditions in the Volta region of Ghana. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.18697/ajfand.95.19040
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24. Michael Osei Adu, Paul Agu Asare, **Elvis Asare-Bediako**, Godwin Amenorpe, Frank Kwekucher Ackah, Emmanuel Afutu, Mishael Nyarko Amoah, David Oscar Yawson (2018). Characterising shoot and root system trait variability and contribution to genotypic variability in juvenile cassava (Manihot esculenta Crantz) plants. *Heliyon*. https://doi.org/10.1016/j.heliyon.2018.e00665

25. Peter Haruna, Aaron T. Asare, **Elvis Asare-Bediako**, Francis Kusi (2018). Farmers and Agricultural Extension Officers Perception ofStriga gesnerioides(Willd.) Vatke Parasitism on Cowpea in the Upper East Region of Ghana. *Advances in Agriculture*. https://doi.org/10.1155/2018/7319204

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27. Blankson D., **Asare-Bediako E.**, A. Frimpong K., Ampofo E., J. Taah K., C. Van der Puije G. (2018). Incidence and severity of maize streak disease: The influence of tillage, fertilizer application and maize variety. *African Journal of Agricultural Research*. https://doi.org/10.5897/ajar2017.12873

28. **Elvis Asare-Bediako** (2018). Phenotypic and Molecular Screening of Okra (Abelmoschus esculentus L. Moench) Genotypes against Okra Leaf Curl Disease. *International Journal of Current Research and Academic Review*. https://www.academia.edu/download/72969028/MjQyMzlAQHBm.pdf

29. **Asare-Bediako Elvis**, Essandoh A. Vera, Asare T. Aaron (2018). Phenotypic and serological evaluation of cowpea (Vigna unguiculata L.Walp) genotypes for resistance to viral infection under field conditions. *Journal of Plant Breeding and Crop Science*. https://doi.org/10.5897/jpbcs2017.0712

30. CK Tettey, **E Asare - Bediako**, niversity of Cape Coast, Cape Coast, Ghana, TA Asare, H Amoatey, Ghana Atomic Energy Commission, Accra, Ghana (2018). Phenotypic screening of cowpea (Vigna unguiculata (L.) walp) genotypes for resistance to cowpea viral diseases. *African Journal of Food Agriculture Nutrition and Development*. https://doi.org/10.18697/ajfand.82.17160

31. **Elvis Asare-Bediako**, Faustina Agyarko, Kingsley Taah, Aaron Asare, Justice Sarfo, Kwame Frimpong, Joseph Nyarko (2018). Prevalence of Mosaic and Leaf Curl Diseases of Okra (Abelmoschus esculentus L. Moench) in the Central Region of Ghana. *Journal of Experimental Agriculture International*. https://doi.org/10.9734/jeai/2018/37421

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33. **E. Asare-Bediako**, D. Mensah-Wonkyi, G.C. Van der Puije, E. Abole (2017). Farmers Agronomic Practice in Management of the Tomato (Solanum lycopersicon L.) Yellow Leaf Curl Virus in Central Region of Ghana. *Journal of Agricultural Extension*. https://doi.org/10.4314/jae.v21i2.6

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Stephan Winter (2017). Influence of planting date on incidence and severity of viral disease on cucurbits under field condition. *Annals of Agricultural Science Cairo*. https://doi.org/10.1016/j.aoas.2017.05.005

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38. Nahoua Kone, **Elvis Asare-Bediako**, Ousmane Koita, Daouda Kone, Stephan Winter (2017). Seasonal and spatial variation in the prevalence of viral diseases and associated aphid-borne viruses in cucurbits in Cote d'Ivoire. *Annals of Agricultural Science Cairo*. https://doi.org/10.1016/j.aoas.2017.12.005
39. **Asare- Bediako E**, Kvarnheden A, van der Puije GC, Taah KJ, Agyei Frimpong K, Amenorpe G, Appiah Kubi A, Nee Lamptey J, Oppong A, Mochiah B, Adama I, Tetteh FN (2017). Spatio-Temporal Variations in the Incidence and Severity of Maize Streak Disease in the Volta Region of Ghana. *Journal of Plant Pathology & Microbiology*. https://doi.org/10.4172/2157-7471.1000401
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41. **Elvis Asare-Bediako**, Doris Mensah Wonkyi, Grace Van der Puije, Godwin Amenorpe, 2BNARI, Ghana Atomic Energy Commission, Accra, Ghana, Michael K. Osei (2017). Variation in the susceptibility of tomato (Lycopersicon solanum L.) genotypes to tomato yellow leaf curl virus (TYLCVD) infections at coastal savannah and forest zones of Ghana. *Australian Journal of Crop Science*. https://doi.org/10.21475/ajcs.17.11.04.pne124
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Book chapters 3

1. Frank Kwekucher Ackah, Grace Caselina van der Puije, **Elvis Asare-Bediako**, KingsleyTaah . (2025). Evaluation of Taro Germplasm for Resistance to Taro Leaf Blight disease caused by Phytophthora colocasiae and Corm Rot Disease caused by Sclerotium rolfsii in Ghana. *Agricultural Sciences: Techniques and Innovations Vol. 6*. https://doi.org/10.9734/bpi/asti/v6/6558
2. **Elvis Asare-Bediako** (2020). Viral Diseases of Okra in Ghana and Their Management. *Plant Pathogens*. https://doi.org/10.1201/9780429057212-2/viral-diseases-okra-ghana-management-asare-bediako-elvis
3. Michael Kwabena Osei, Eric Cornelius, **Elvis Asare-Bediako**, Allen Oppong, Marian Dorcas Quain (2017). Status of Begomoviruses in Ghana: The Case of Vegetables and Root and Tuber Crops. https://doi.org/

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Reports 1

1. JN Buah, **E Asare-Bediako** (2007). Genetic estimates of water stress in tomato (Lycopersicum esculentum. *University of Cape Coast*. https://ir.ucc.edu.gh/items/06fc578c-1553-46d2-923d-f4ed88369391

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1. **E Asare-Bediako** (2016). Attitude of the Ghanaian towards vocational education programmes in the Senior High School a case study at the Atwima-Nwabiagya District in the Ashanti Region. *University of Education, Winneba*. https://ir.uew.edu.gh/handle/123456789/4281
2. **Elvis Asare-Bediako** (2011). Brassicaceae: turnip yellows virus interactions. *University of Warwick*. https://wrap.warwick.ac.uk/id/eprint/44041/1/WRAP_THESIS_Asare-Bediako_2011.pdf