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RESEARCH

Interests GIS & Remote Sensing

Areas Plant Science · General Agricultural and Biological Sciences · Geography, Planning and Development · Animal Science and Zoology · Soil Science · Agronomy and Crop Science

RESEARCH SUMMARY

35	224	9	9	1.14	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 35 publications listed below, 2001–2026. Field-weighted impact is the mean over the 31 works scored for it; 1.00 is the world average for works of the same field, type and year. 4 of the 31 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 34

1. Martin Ayanore, Isaiah Agorinya, Robert Kokou Dowou, Samuel Mayeden, Gilbert Abotisem Abihiro, Peter Adatar, Stella Lartey, Joseph Kangmennaang, Elijah Bisung, Kingsley Osei and 25 others (2026). Correlates of self-reported pregnancy complications: a cross-sectional study in two districts in Northern Ghana. *Archives of Public Health*. <https://doi.org/10.1186/s13690-026-01960-w>
2. Esther Fobi Donkor, Daniel Nyadanu, Richard Akromah, Kingsley Osei, Braima Amadu (2026). Improving Taro (*Colocasia esculenta* [L.] Schott.) Genotypes for Resistance to Taro Leaf Blight Disease in Ghana. *Advances in Agriculture*. <https://doi.org/10.1155/aia/6661417>
3. Gifty Marley, Phyllis Dako-Gyeke, Prajwol Nepal, Rohini Rajgopal, Evelyn Koko, Elizabeth Chen, Kwabena Nuamah, Kingsley Osei, Hubertus Hofkirchner, Michael Marks, Joseph D Tucker, Rosalind Eggo, William Ampofo, Sean Sylvia (2024). Collective Intelligence–Based Participatory COVID-19 Surveillance in Accra, Ghana: Pilot Mixed Methods Study. *JMIR Infodemiology*. <https://doi.org/10.2196/50125>
4. Jonas Osei-Adu, Robert Aidoo, Simon Cudjoe Fialor, Stella Ama Ennin, Kingsley Osei, Bright Owusu Asante, Gideon Danso-Abbeam (2024). Impact of positive selection technology on seed yam productivity. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2024.e30397>
5. Esther Fobi Donkor, Daniel Nyadanu, Richard Akromah, Kingsley Osei, Daniel Asomaning Odoom (2023). Evaluation and phenotypic plasticity of taro [*Colocasia esculenta* (L.) Schott.] genotypes for nutrient and anti-nutrient composition. *PLoS ONE*. <https://doi.org/10.1371/journal.pone.0291358>
6. Esther Fobi Donkor, Daniel Nyadanu, Richard Akromah, Kingsley Osei (2023). Genotype by *Phytophthora colocasiae* isolate interaction in breeding for resistance to taro [*Colocasia esculenta* var *esculenta* (L.) Schott] leaf blight disease in Ghana. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2023.e16350>
7. Esther Fobi Donkor, Daniel Nyadanu, Richard Akromah, Kingsley Osei (2022). Phenotypic characterization of taro [*Colocasia esculenta* (L.) Schott.] accessions for yield and nutrient composition in Ghana. *Journal of Crop Science and Biotechnology*. <https://doi.org/10.1007/s12892-022-00182-0>
8. Daniel Amoako-Sakyi, Dorcas Obiri-Yeboah, Anthony Ofosu, Kwadwo Asamoah Kusi, Kingsley Osei, Richard Adade, Ebenezer Aniakwaa-Bonsu, Reginald Quansah, John Arko-Mensah, Brodrick Yeboah Amoah, Godwin Kwakye-Nuako, Eric Yaw Frimpong, Mariama Combasseré-Cherif, Hidaya Mohammed,

- Boubacar Maiga, Julius Fobil, Isabella Quakyi, Ben A. Gyan (2022). Preponderance of vaccine-preventable diseases hotspots in northern Ghana: a spatial and space-time clustering analysis from 2010 to 2014. *BMC Public Health*. <https://doi.org/10.1186/s12889-022-14307-1>
9. Jonas Osei-Adu, Robert Aidoo, Simon Cudjoe Fialor, Stella Ama Ennin, Kingsley Osei, Bright Owusu Asante (2022). Profitability of positive selection technique for seed yam production in Ghana and Nigeria. *Cogent Economics & Finance*. <https://doi.org/10.1080/23322039.2022.2034281>
 10. Yaw Danso, U. Issa, I. Adama, K. Osei, E. Agyei Obeng, M. Opoku, W. Amoabeng, B. Abugri, J. Adomako (2021). Application of Entomopathogenic Nematodes in Management of Fall Armyworm Infesting Maize in Ghana: A Greenhouse Study. *Egyptian Journal of Agronematology*. <https://doi.org/10.21608/ejaj.2021.192214>
 11. Bright Owusu Asante, Jonas Osei-Adu, Kingsley Osei, Stella Ama Ennin, Beatrice Aighewi, Monica Opoku (2021). Awareness and adoption of positive selection technology among yam farmers in West Africa. *International Journal of Social Economics*. <https://doi.org/10.1108/ijse-07-2020-0474>
 12. Esther Fobi Donkor, Daniel Nyadanu, Richard Akromah, Kingsley Osei (2021). Genetic control and assessment of breeding value of selected exotic and local genotypes of taro (*Colocasia esculenta*) for yield and yield components. *Euphytica*. <https://doi.org/10.1007/s10681-021-02828-6>
 13. Isaac Newton B-Mensah, Kingsley Osei, Ruth N. A. Prempeh (2021). Screening Tomato Genotypes for Bacterial Wilt Disease (*Ralstonia solanacearum*) Resistance in Ghana. *European Journal of Agriculture and Food Sciences*. <https://doi.org/10.24018/ejfood.2021.3.5.277>
 14. Patricia Pinamang Acheampong, Marian Dorcas Quain, David Appiah-Kubi, Jonas Osei-Adu, Stella Ama Ennin, Kingsley Osei (2020). Economic analysis of seed yam production in aeroponics system. Implications on employment and food security in Ghana. *Journal of Agribusiness and Rural Development*. <https://doi.org/10.17306/j.jard.2020.01290>
 15. Esther Fobi Donkor, Daniel Nyadanu, Richard Akromah, Kingsley Osei (2020). Genotype-by-environment interaction and stability of taro [*Colocasia esculenta* (L.) Schott.] genotypes for yield and yield components. *Ecological Genetics and Genomics*. <https://doi.org/10.1016/j.egg.2020.100070>
 16. A.K. Aidoo, S. Arthur, G. Bolfrey-Arku, K. Osei, J.N.L. Lamptey, M.B. Mochiah, G. Ohene-Mensah, F. Frimpong, Z. Appiah-Kubi, E.O. Danquah (2020). Storage rot of seed yam resulting from speargrass injuries. *African Crop Science Journal*. <https://doi.org/10.4314/acsj.v28i2.6>
 17. Jonas Osei-Adu, Robert Aidoo, Simon Cudjoe Fialor, Stella Ama Ennin, Kingsley Osei, Bright Owusu Asante (2020). The role of improved technology to enhance Total Factor Productivity (TFP): The case of quality seed yam production in Ghana and Nigeria. *African Journal of Science Technology Innovation and Development*. <https://doi.org/10.1080/20421338.2020.1831132>
 18. Moses Brandford Mochiah, Kingsley Osei, Atta Snr Aidoo, Yaw Danso, Joseph Nii Lante Lamptey, Stella Ama Ennin (2019). Effect of azadirachtin pre-treatment on major pests, diseases and yield of seed yam. *Journal of Entomology and Nematology*. <https://doi.org/10.5897/jen2018.0222>
 19. K. Osei, S.A. Ennin, B. Aighewi, A.K. Aidoo, J.N.L. Lamptey, M.B. Mochiah, D. Aihebhoria, J. Adomako, Z. Appiah-Kubi, G.O. Mensah, B.O. Asante, J.O. Adu, A.S. Osuman (2019). Enhancing productivity of farmer-saved seed yam in Ghana: Positive selection and neem leaf powder factors. *African Crop Science Journal*. <https://doi.org/10.4314/acsj.v27i4.6>
 20. M. Owusu-Akyaw, M.B. Mochiah, J.Y. Asibuo, K. Osei, A. Ibrahim, G. Bolfrey Arku, J.N.L. Lamptey, A.A. Danyi, A. Oppong, J.K. Addo and 16 others (2019). Evaluation and Release of Two Peanut Cultivars: A Case Study of Partnerships in Ghana. *Peanut Science*. <https://doi.org/10.3146/ps18-16.1>
 21. Umar Sanda Issa, Kofi Frimpong-A, Yaw Danso, Ernest Baafi, Joseph Adomako, Patrick Obeng, Haruna Braimah, Kingsley Osei, Hugues Baimey (2019). Sweetpotato *Ipomoea batatas* (L.) Varietal Response to Sweetpotato Weevils Infestation under Different Production Conditions in Southern Ghana. *Journal of Agronomy*. <https://doi.org/10.3923/ja.2019.93.99>
 22. K Osei, J Adomako, Y Danso, J.S. Asante, B Abugri (2018). Evaluation of nematode suppression and yield improvement potential of organic substances in sweet potato crop. *Journal of Applied Biosciences*. <https://doi.org/10.4314/jab.v119i1.4>

23. David O. Yawson, Michael O. Adu, Kingsley N. Osei (2018). Spatial assessment of sugarcane (*Saccharum* spp. L.) production to feed the Komenda Sugar Factory, Ghana. *Heliyon*. <https://doi.org/10.1016/j.heliyon.2018.e00903>
24. Richard Adade, Benjamin Kofi Nyarko, Denis Worlanyo Aheto, Kingsley Nana Osei (2017). Fragmentation of wetlands in the south eastern coastal savanna of Ghana. *Regional Studies in Marine Science*. <https://doi.org/10.1016/j.rsma.2017.03.003>
25. E. Otoo, K. Osei, J. Adomako, A. Agyeman, A. Amele, D. de Koeper, P. Adebola, R. Asiedu (2017). GGE Biplot Analysis of 12 *Dioscorea rotundata* Genotypes in Ghana. *Journal of Agricultural Science*. <https://doi.org/10.5539/jas.v10n1p249>
26. S Mariwah, KN Osei (2017). Urban land use/land cover changes in the Tema metropolitan area (1990–2010). *GeoJournal*.
27. Osei K, A Ennin S, Danso Y, Owusu Danquah E, Adomako J (2015). Management of plant parasitic nematodes with fulan in mechanized yam production. *African Journal of Plant Science*. <https://doi.org/10.5897/ajps2015.1275>
28. Simon Mariwah, Kingsley Nana Osei, Mark Seyram Amenyoo-Xa (2015). Urban land use/land cover changes in the Tema metropolitan area (1990–2010). *GeoJournal*. <https://doi.org/10.1007/s10708-015-9672-0>
29. K. Osei, M. K. Osei, M. B. Mochiah, (2014). Effect of plant bed type on nematode density and yield of cabbage in two regions of Ghana. *Journal of Entomology and Nematology*. <https://doi.org/10.5897/jen2014.0108>
30. Joseph Nii Lante Lamptey, Michael Kwabena Osei, Moses Brandford Mochiah, Kingsley Osei, Joseph Nketiah Berchie, Grace Bolfrey-Arku, Robert Gilbertson (2013). Serological Detection of Tobacco Mosaic Virus and Cucumber Mosaic Virus Infecting Tomato (*Solanum Lycopersicum*) Using a Lateral Flow Immunoassay Technique. *Journal of Agricultural Studies*. <https://doi.org/10.5296/jas.v1i2.3768>
31. OEM Jnr, KN Osei (2012). Modeling land use change for Ejisu-Juaben district of Ghana. *Journal of Geomatics*. https://www.researchgate.net/profile/Kingsley-Osei/publication/320515978_Modeling_Land_Use_Change_for_Ejisu-Juaben_District_of_Ghana/links/5becb714299bf1124fd31fd5/Modeling-Land-Use-Change-for-Ejisu-Juaben-District-of-Ghana.pdf
32. Kingsley Nana Osei (2009). Comparison of land cover image classification methods. *Journal of Geomatics*. <https://www.academia.edu/download/93603340/THESIS.pdf>
33. A. G. B. Amoah, D. P. Schuster, T. Gaillard, K. Osei (2003). Insulin sensitivity and cardiovascular risk factors in hypertensive and normotensive native Ghanaians. *Diabetologia*. <https://doi.org/10.1007/s00125-003-1130-8>
34. A G Amoah, S K Owusu, O M Ayithey, D P Schuster, K Osei (2001). Minimal model analyses of beta cell secretion, insulin sensitivity and glucose effectiveness in glucose tolerant, non-diabetic first-degree relatives of Ghanaian patients with type 2 diabetes and healthy control subjects. *PubMed*.

Reports 1

1. Simon Mariwah, Kingsley Nana Osei (2016). Urban land use/land cover changes in the Tema Metropolitan area, Ghana (1990–2010). *University of Cape Coast*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/01c61dcb-15e8-4ead-9ad1-6099f63913b1/content>