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RESEARCH

Interests	Greenhouse gas emission and animal agriculture
Areas	Agronomy and Crop Science · Animal Science and Zoology · Ecology, Evolution, Behavior and Systematics · Infectious Diseases · Plant Science · Ecology

RESEARCH SUMMARY

43	389	12	15	1.48	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 43 publications listed below, 2010–2026. Field-weighted impact is the mean over the 23 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 23 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 42

1. Frank Idan, A Osman, Samuel Obeng Apori, **C Antwi**, Ebenezer Gyamera (2026). Assessing the Awareness, Willingness and Barriers to Pasture Cultivation Among Urban and Peri-Urban Cattle Farmers in Selected Communities of the Ashanti Region of Ghana. *Ghana Journal of Science, Technology and Development*. https://gjstd.org/index.php/GJSTD/article/view/513
2. ELK Osafo, A OSMAN, Samuel Obeng Apori, **C Antwi**, F Idan, Ebenezer Gyamera (2026). Effects of concentrate supplement on feed intake, growth performance, blood parameters, and economics of production of N'dama calves fed Napier grass basal diet. *Animal Research International*. https://doi.org/10.5555/20260229497
3. GB Appiah, B Asante, **C Antwi** (2025). Agribusiness Handbook. *KNUST DSpace Repository*. https://scholar.google.com/scholar?cluster=11229150434513891185&hl=en&oi=scholarr
4. Godwin Deku, **Christopher Antwi**, Paul Kofi Karikari, Daniel Boye Okai, Andrew Babatunde Omojola (2025). Cattle Demography, Farm Operations and Challenges Faced by Herdsmen in The Ejisu/Juaben Municipality of The Ashanti Region of Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v1i2.1s
5. G. Deku, **C. Antwi**, P.K. Karikari, D.B. Okai, A.B. Omojola (2025). Effects of breeds of cows and non-genetic factors on milk production and nutrient composition. *Ghanaian Journal of Animal Science.*. https://doi.org/10.4314/gjansci.v16i1.10
6. Alhassan Osman, Emmanuel Lartey Kwame Osafo, Victoria Attoh-Kotoku, Frank Idan, **Christopher Antwi** (2025). Impact of Supplementing Probiotics and Concentrate on Intake, Nutrient Digestibility, and Nitrogen Balance in Sahelian Goats Fed a Basal Diet of Brachiaria Decumbens Grass. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i4.4
7. A Osman, ELK Osafo, V Attoh-Kotoku, F Idan, **C Antwi** (2025). The Impact of Supplementing Probiotics and Concentrate on Intake, Nutrient Digestibility, and Nitrogen Balance in Sahelian Goats Fed a Basal Diet of Brachiaria Decumbens Grass …. *Journal of Science and Technology (JUST)*. https://journal.knust.edu.gh/index.php/just/article/view/1855

8. A.A. Yunus, E.L.K. Osafo, A. Osman, S.O. Apori, V. Attoh-Kotoku, **C. Antwi**, F. Idan, E. Gyamera (2024). Effects of concentrate supplement on dry matter and water intake, nutrient digestibility and nitrogen balance of N'dama bull calves fed Napier grass basal diet. *Ghanaian Journal of Animal Science*.. https://doi.org/10.4314/gjansci.v14i1.5

9. ABANO ERNEST EKOW, CA Wongnaa, AA Boakye, B Adjei-Mensah, B Asante, F Idan, **C Antwi** (2024). Journal of agriculture and food research. *Journal of Agriculture and Food Research*. https://www.researchgate.net/profile/Lukeman-Haruna/publication/380865604_Effect_of_Partial_pulp_removal_and_fermentation_duration_on_drying_behavior_nib_acidification_fermentation_quality_and_flavor_attributes_of_Ghanaian_cocoa_beans/links/66599179bc86444c721f15c7/Effect-of-Partial-pulp-removal-and-fermentation-duration-on-drying-behavior-nib-acidification-fermentation-quality-and-flavor-attributes-of-Ghanaian-cocoa-beans.pdf

10. **C. Antwi**, P Sasu, S. Partey, M. Kwaku, A.S. Anim-Jnr, Y.O. Frimpong, F. Idan (2024). Nutritional evaluation and supplementation effect of bamboo leaves on intake, growth performance, and blood indices of Djallonké sheep fed Cenchrus purpureus and Brachiaria decumbens as basal diets. *Ghanaian Journal of Animal Science*.. https://doi.org/10.4314/gjansci.v14i1.6

11. Alhassan Osman, Emmanuel Lartey Kwame Osafo, Victoria Attoh-Kotoku, Abdul Aziz Yunus, Antoinette Simpa Anim-Jnr, Worlah Yawo Akwetey, **Christopher Antwi** (2023). Carcass characteristics and meat quality of adult Sahelian does fed a basal diet of Brachiaria decumbens grass supplemented with probiotics and concentrates. *Cogent Food & Agriculture*. https://doi.org/10.1080/23311932.2023.2225259

12. Emmanuel Lartey Kwame OSAFO, Alhassan OSMAN, Victoria ATTOH-KOTOKU, **Christopher ANTWI**, Yunus ABDUL AZIZ, Frank IDAN (2023). Chemical composition and in vitro gas production of Brachiaria decumbens harvested at different stages of growth in the hot humid region. *Online Journal of Animal and Feed Research*. https://doi.org/10.51227/ojafr.2023.45

13. Frank IDAN, Tsatsu ADOGLA-BESSA, Felix Owusu SARKWA, **Christopher ANTWI**, Alhassan OSMAN, Yunus ABDUL AZIZ (2023). Effects of fodder tree leave supplementation for basal rice straw diet on rumen ammonia, pH, and degradation characteristics in sheep. *Online Journal of Animal and Feed Research*. https://doi.org/10.51227/ojafr.2023.43

14. Frank Idan, Tsatsu Adogla-Bessa, Felix O Sarkwa, Yaw O Frimpong, **Christopher Antwi** (2023). Effects of supplementing rice straw with two fodder tree leaves and their combinations on voluntary feed intake, growth, and nitrogen utilization in sheep. *Translational Animal Science*. https://doi.org/10.1093/tas/txad004

15. Alfred Kelvin Boakye, Bright Owusu Asante, Solomon Akutinga, Daniel Agyeman, Stephen Prah, Frank Idan, **Christopher Antwi**, Irene Serwaa Asante (2023). Farmers' perceptions and willingness to adopt egg and snail shells as alternative calcium sources for poultry production in the Western region of Ghana. *Journal of Agriculture and Food Research*. https://doi.org/10.1016/j.jafr.2023.100818

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17. Y.O. Frimpong, **C. Antwi**, O. Agbenyega, S.K. Oppong, A.S. Anim-Jnr, V. Burimuah, R. Folitse, B.O. Emikpe (2022). Nutrient profiling of ruminant feed resources in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01495

18. Lucia N. Marius, Maria N. T. Shipandeni, Luis A. Rodríguez-Campos, Emmanuel L. K. Osafo, Irvin D. T. Mpofu, Terry Ansah, Katrina L. Shiningavamwe, Victoria Attoh-Kotoku, **Christopher Antwi** (2021). Seasonal variation in chemical composition and in-vitro gas production of woody plant species of semi-arid condition of Namibia. *Agroforestry Systems*. https://doi.org/10.1007/s10457-021-00643-5

19. Nembot Fogang Brice Armel, Augustina Angelina Sylverken, Michael Owusu, Philip El-Duah, Vitus Burimuah, Yaw Frimpong, Jones Lamptey, Isabella Eckerle, Benjamin Meyer, **Christopher Antwi**, Olivia Agbenyaga, Raphael Folitse, Benjamin Emikpe, Samuel Kingsley Oppong, Yaw Adu-Sarkodie, Christian Drosten (2021). Sero-molecular epidemiology of hepatitis E virus in pigs and human contacts in Ghana. *One Health Outlook*. https://doi.org/10.1186/s42522-021-00043-w

20. **Christopher Antwi**, Preston Anderson, Antoinette S. Anim-Jnr, Moses Kiryowa, Adeola E. Ayano, Armstrong Donkoh (2020). Intake, digestibility and nitrogen balance of sheep fed bambara groundnut haulm as supplement to a maize stover basal diet. *Scientific African*. https://doi.org/10.1016/j.sciaf.2020.e00308

21. Vitus Burimuah, Augustina Sylverken, Michael Owusu, Philip El-Duah, Richmond Yeboah, Jones Lamptey, Yaw Oppong Frimpong, Olivia Agbenyega, Raphael Folitse, Ben Emikpe, William Tasiame, Eddie-Williams Owiredu, Samuel Oppong, **Christopher Antwi**, Yaw Adu-Sarkodie, Christian Drosten (2020). Molecular-based cross-species evaluation of bovine coronavirus infection in cattle, sheep and goats in Ghana. *BMC Veterinary Research*. https://doi.org/10.1186/s12917-020-02606-x

22. **Christopher Antwi**, 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

23. **C Antwi** (2020). The 'GreenFeed'automated methane measurement system to determine enteric methane emissions from ruminants.. *Guidelines for estimating methane emissions from individual ruminants using: GreenFeed,'sniffers', hand-held laser detector and portable accumulation chambers*. https://hal.science/hal-04182263/

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26. K. O. Ansah, **C. Antwi**, E. L.K. Osafo, S. Enning, H. Adu-Dapaah (2019). Manure characteristics of small ruminants fed agro by-products in the guinea savannah agro-ecological zone of Ghana. *Ghana Journal of Agricultural Science*. https://doi.org/10.4314/gjas.v54i1.7

27. Philip El-Duah, Augustina Sylverken, Michael Owusu, Richmond Yeboah, Jones Lamptey, Yaw Oppong Frimpong, Vitus Burimuah, **Christopher Antwi**, Raphael Folitse, Olivia Agbenyega, Samuel Oppong, Yaw Adu-Sarkodie (2019). Potential Intermediate Hosts for Coronavirus Transmission: No Evidence of Clade 2c Coronaviruses in Domestic Livestock from Ghana. *Tropical Medicine and Infectious Disease*. https://doi.org/10.3390/tropicalmed4010034

28. **C Antwi** (2018). Methane emissions differ between sheep offered a conventional diploid, a high-sugar diploid or a tetraploid perennial ryegrass cultivar at two allowances at three times of the year. *Animal Production Science*.

29. A. Jonker, G. Molano, **C. Antwi**, G. C. Waghorn (2016). Enteric methane and carbon dioxide emissions measured using respiration chambers, the sulfur hexafluoride tracer technique, and a GreenFeed head-chamber system from beef heifers fed alfalfa silage at three allowances and four feeding frequencies1–3. *Journal of Animal Science*. https://doi.org/10.2527/jas.2016-0646

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Reports 1

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