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PROFILE

Jacob Alhassan Hamidu is a Professor at the Department of Animal Science, Kwame Nkrumah University of Science and Technology (KNUST), Kumasi, Ghana. He has an extensive contributions in poultry science, youth and community training, and the animal sector industry. He is also the Director of Development and Social Sciences of the Presbyterian Church of Ghana at the Asante Presbytery and a formar Chairperson of the Agriculrural Committee of the church. Prof. Jacob Alhassan Hamidu holds a Ph.D. in Animal Science from the University of Alberta, Canada, with specializations in Poultry Embryology, Animal and Cell Physiology, Nutrition, Genetics, Cell Viability, and Chick Quality. His research investigates factors affecting the global poultry industry, including heat stress, embryogenesis, embryo metabolism, and gut microbiota manipulation to improve animal health. He has authored numerous peer-reviewed publications, abstracts, and conference proceedings. A significant part of Prof. Hamidu's work involves direct community and industry engagement. He has been the lead trainer for workshops aimed at bridging the technology transfer gap for poultry experts, consultants, and farmers in Ghana. These trainings, often supported by bodies like the Ghana Skills Development Fund and the World Initiative for Soy in Human Health of the American Soybean Association, focus on modern practices in poultry feed formulation, disease control, and farm management to increased chick hatchability, chick quality, reduce chick mortality and boost local production. He works closely with and provides advisory support to national groups such as the National Poultry Farmers Association and the APEX Body of Women in Poultry Value Chain, empowering them through knowledge and skills transfer. Through projects like his Grand Challenges Canada grant, he has championed the production and consumption of nutritious, omega-3 fortified eggs to combat childhood malnutrition and stunting in Ghana and using the same project in collaboration with some social scientists to increase reading skills of children in rural communities. He has been advocating for the inclusion of eggs in government programmes like the school feeding scheme. He loves youth mentorship, community service and sports.

RESEARCH

Interests	Poultry Science · Embryology · Cell death and survival · Reproductive physiology
Areas	Animal Science and Zoology · Plant Science · Genetics · Aquatic Science · Agronomy and Crop Science · Ecology

RESEARCH SUMMARY

93	706	12	16	0.92	4%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 93 publications listed below, 2006–2026. Field-weighted impact is the mean over the 47 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 47 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 83

1. Prince Sasu, Felicia Emmanuella Ellison, Benjamin Adjei-Mensah, Gloria Kumi, Richard Koblah Agbehadzi, **Jacob Alhassan Hamidu** (2026). Bamboo leaves as alternative feed resource for livestock and poultry: A systematic review. *Advances in Bamboo Science*. https://doi.org/10.1016/j.bamboo.2026.100244
2. Maxwell Ansong Okai, Francis Kruenti, Yendouchamtchié Nadiedjoa, Clarice Temhoul Maa Maa, Ahmed Mijiyawa, Lijing Sun, Jumeng Yuan, Minghui Wang, Kokou Tona, **Jacob Alhassan Hamidu**, Benjamin Adjei-Mensah, Felix Kwame Amevor, Hai Lin (2026). Effects of incubation temperature and in ovo supplementation of glucose and vitamin D3 on eggshell temperature, embryonic mortality, hatchability, chick quality, and post-hatch performance in broiler chickens. *Frontiers in Physiology*. https://doi.org/10.3389/fphys.2026.1930808
3. Anthony Boakye Antwi, Nana Yaa Korankyewa-Ayim, Josephine Paule Amelan Kouassi, Sampson Oduro-Kwarteng, **Jacob Alhassan Hamidu**, Goodman Sarfo Kantanka, Patrick Boakye, Herman Erick Lutterodt (2026). Efficacy of food waste amended feed on sustainable broiler production. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v44i2.2
4. Agnes Osei-Adjei, **Jacob Alhassan Hamidu**, Benjamin Adjei-Mensah, Prosperar Amu, Christabel Osei-Tutu, Armstrong Donkoh (2026). Interactive Effects of Cassava Starch Residue and Multi-Enzyme Supplementation on Growth Performance, Carcass Traits, Blood Metabolites and Cecal Microbiota of Broilers. *Starch - Stärke*. https://doi.org/10.1002/star.70223
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7. Antonia Y. Tetteh, CK Firempong, **JA Hamidu** (2026). PRODUCTION OF CHICKEN EGG YOLK ANTIBODIES INDUCED VIA DIFFERENT ADJUVANTS FOR NEUTRALIZATION OF ECHIS OCELLATUS VENOM TOXICITY. *Toxicon*. https://www.sciencedirect.com/science/article/pii/S0041010126002278
8. Richard Kudzo Addae, Caleb Kesse Firempong, Mark Opoku, Vincent Baffour Gyawu, Moses Etsey, **Jacob Alhassan Hamidu**, Seth Agyei Domfeh, Antonia Yarney Tetteh, Feng Yingshu (2026). Production of chicken egg yolk antibodies induced via different adjuvants for neutralization of Ghanaian Echis ocellatus venom toxicity. *Toxicon*. https://doi.org/10.1016/j.toxicon.2026.109209
9. Achiamaa Asafu-Adjaye Koranteng, Benjamin Adjei-Mensah, Joycelyn Okyere Darko, Richard Koblah Agbehadzi, Maxwell Ansong Okai, Gifty Ziema Bumbie, Koffi Apeti Gbogbo, **Jacob Alhassan Hamidu** (2025). Corncob-Based Diet With Enzyme Blend Improves Body Weight, Feed Efficiency and Breast Yield of Sasso Broiler Chickens. *Veterinary Medicine and Science*. https://doi.org/10.1002/vms3.70721
10. Sasu Prince, Agbehadzi Richard Koblah, Ackah Edna Mariam, Adjei-Mensah Benjamin, Felicia Emmanuella Ellison, Danquah Cynthia Amaning, Tona Kokou, **Hamidu Jacob Alhassan**, Were Pitala (2025). Effects of Six-Hour Pre-Incubation Thermal Conditioning and Prolonged Storage on Egg Quality, Embryogenesis, Hatchability, and Post-Hatch Physiology of Plymouth Rock Hybrid Chickens in Tropical Climate of Ghana. *Journal of World s Poultry Research*. https://doi.org/10.36380/jwpr.2025.1
11. Agnes Osei-Adjei, **Jacob Alhassan Hamidu**, Benjamin Adjei-Mensah, Priscilla Nyameyie Ama Hanson, Goodman Kantanka Sarfo, Armstrong Donkoh (2025). Evaluating Cassava Starch Residue as a Maize Substitute in Broiler Chicken Diets. *Food Science & Nutrition*. https://doi.org/10.1002/fsn3.70360

12. Maxwell Ansong Okai, Francis Kruenti, Zheng Liu, Ma Yingfa, Nadiedjoa Yendouchamtchié, Mijiyawa Ahmed, Roland Yao Apélété Toglo, Maa Maa Temhoul Clarice, Xin Qian, Kokou Tona, **Jacob Alhassan Hamidu**, Benjamin Adjei-Mensah, Hai Lin (2025). Interactive Effects of Incubation Temperature and In Ovo Feeding on Hatchability, Organ Development, Bone Minerals and Blood Metabolites in Broiler Chicks. *Veterinary Medicine and Science*. https://doi.org/10.1002/vms3.70726

13. Maxwell Ansong Okai, Francis Kruenti, **Jacob Alhassan Hamidu**, Kokou Tona, Lin Hai (2025). Relationship between in ovo feeding and eggshell temperature of breeder eggs during incubation. *Frontiers in Animal Science*. https://doi.org/10.3389/fanim.2025.1511023

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15. Gregory Tamba Dunga, Kwaku Adomako, Bernard Ato Hagan, **Jacob Alhassan Hamidu**, Oscar Simon Olympio (2025). The effects of naked neck and frizzle genes on the fertility, hatchability, egg quality and pterylosis of locally developed commercial layer parent lines. *Tropical Animal Health and Production*. https://doi.org/10.1007/s11250-025-04335-5

16. Esther Naa Korkoi Sackey, Samuel Amankwah Aboagye, Mathais Adetarimah, Armstrong Donkoh, Benjamin Adjei-Mensah, **Jacob Alhassan Hamidu** (2024). Antibiotic Resistance of Escherichia coli and Salmonella spp. Strains Isolated from Some Selected Poultry Farms in the Oforikrom Municipality Kumasi, Ghana. *European Journal of Agriculture and Food Sciences*. https://doi.org/10.24018/ejfood.2024.6.5.844

17. Kwaku Adomako, Bertha Yayra Ahiabli, **Jacob Alhassan Hamidu**, Oscar Simon Olympio, Edward Yeboah (2024). Biosecurity Within Poultry Farms in the Ashanti Region of Ghana. *Proceedings of the National Academy of Sciences India Section B Biological Sciences*. https://doi.org/10.1007/s40011-023-01535-7

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21. Timothy T. Kuka, Batomayena Bakoma, **Jacob Hamidu**, Okanlawon Onagbesan, Kokou Tona (2024). Evaluation of d 18 in ovo administration of soursop (Annona muricata) leaf extract into the air space on hatch performance and physiology of Noiler chicks. *Poultry Science*. https://doi.org/10.1016/j.psj.2024.104220

22. B. Adjei-Mensah, O. Oso, E. Oke, T.T. Kuka, P. Sasu, R.K. Agbehadzi, C.C. Atuahene, A. Donkoh, **J.A. Hamidu**, K. Tona (2024). Hypocholesterolemic potentials of garlic on the lipid profile of poultry birds and poultry products: A review. *The Journal of Applied Poultry Research*. https://doi.org/10.1016/j.japr.2024.100509

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26. B. Adjei-Mensah, A. A. A. Koranteng, **J. A. Hamidu**, K. Tona (2023). Antibacterial activities of garlic (Allium sativum) in broiler and laying hens production. *World s Poultry Science Journal*. https://doi.org/10.1080/00439339.2023.2164236

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meal on the growth and reproductive performance of layer pullets and semen characteristics of cockerels. *Ghanaian Journal of Animal Science*. https://www.ajol.info/index.php/gjansci/article/view/246059

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38. **J.A. Hamidu**, E.L. Dohoe, I. Seydous, A. Zakari, K.O. Donkor, E. Ofori- Kuragu, A. Osei- Adjei, G.K. Sarfo, K.A. Acheampong, A.N. Akunzule (2022). Impact of Chicken Protector, Prebiotic and Phytobiotics Feed Supplement on Layer Chicks Growth and Development. *Asian Journal of Animal and Veterinary Advances*. https://doi.org/10.3923/ajava.2022.91.97
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