Emmanuel Lartey Kwame Osafo

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RESEARCH

Interests	Ruminant nutrition · ruminant production · crop residues · climate change
Areas	Agronomy and Crop Science · Plant Science · Animal Science and Zoology · Ecology, Evolution, Behavior and Systematics · Forestry · Nutrition and Dietetics

RESEARCH SUMMARY

66	532	13	19	0.70	8%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 66 publications listed below, 1984–2026. Field-weighted impact is the mean over the 25 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 25 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Professor 1981–present
Department of Animal Science, Kwame Nkrumah University of Science and Technology
College of Science, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

University of Reading
Department of Agriculture, Reading, United Kingdom

DISTINCTIONS, MEMBERSHIPS AND SERVICE

British Society of Animal Science
Penicuik, United Kingdom

PUBLICATIONS

Journal articles 60

1. **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
2. A Osman, **ELK Osafo** (2026). THE EFFECTS OF MOLASSES AND ENSILING DURATION ON SELECTED QUALITY PARAMETERS OF RED NAPIER GRASS SILAGE. *Animal Research International*. https://openurl.ebsco.com/contentitem/gcd:193442179?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:193442179&crl=c&jrnl=15973115
3. 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

4. Lucia N. Marius, Maria N.T. Shipandeni, Luis A. Rodríguez-Campos, **Emmanuel L.K. Osafo** (2025). Seasonal variation in macro and micro mineral contents of browse plants consumed by ruminants in Namibia. *Journal of Arid Environments*. https://doi.org/10.1016/j.jaridenv.2025.105488

5. KO Ansah, **ELK Osafo** (2025). The Effects of slow Pyrolysis on the Microbial, Nutritional and Elemental properties of Biochar Produced from Rice husk. *Science and Development Journal*. https://www.ajol.info/index.php/jsdugs/article/view/312313/293785

6. 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

7. Alhassan Osman, Ahmed Abdullah Owusu, Jeffrey Ofosu, Prince Sasu, Yunus Abdul Aziz, Victoria Attoh-Kotoku, **Emmanuel Lartey Kwame Osafo** (2024). Additive effects of Bridelia ferruginea leaf meal as a partial replacement for soybean meal on nutrients digestibility, growth performance, and carcass characteristics of weaner rabbits. *CABI Agriculture and Bioscience*. https://doi.org/10.1186/s43170-024-00276-5

8. K.O. Ansah, **E.L.K. Osafo**, A. Osman, G.C. Opoku, A.S. Ansah (2024). Dose-dependent effects of biochar inclusion on growth, hematological, manure and carcass characteristics of rabbits. *Ghanaian Journal of Animal Science.*. https://doi.org/10.4314/gjansci.v15i1.7

9. 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

10. 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

11. **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

12. V. Attoh-Kotoku, O.K. Gyimah, A. Donkoh, A. Osman, Y.A. Aziz, **E.L.K. Osafo** (2023). Effect of solid state fermentation using oyster mushroom on the chemical composition of Brachiaria mulato II, Bambusa vulgaris, Napier grass and Panicum, four Tropical forages, incubated for 60 days. *Animal - science proceedings*. https://doi.org/10.1016/j.anscip.2023.01.438

13. Alhassan Osman, **Emmanuel Lartey Kwame Osafo**, Victoria Attoh-Kotoku, Abdul Aziz Yunus (2023). Effects of supplementing probiotics and concentrate on intake, growth performance and blood profile of intensively kept Sahelian does fed a basal diet of Brachiaria decumbens grass. *Journal of Applied Animal Research*. https://doi.org/10.1080/09712119.2023.2211652

14. Alhassan Osman, Yunus Abdul Aziz, Kwame Owusu Amoah, **Emmanuel Lartey Kwame Osafo**, Victoria Attoh Kotoku, Prince Sasu (2023). Growth performance, nutrient digestibility and carcass characteristics of grower rabbits fed graded levels of Bamboo (Bambusa vulgaris) leaf meal. *International Journal of Agricultural Research Innovation and Technology*. https://doi.org/10.3329/ijarit.v13i1.67945

15. P Sasu, AS Anim-Jnr, **EL Osafo**, AM Mensah (2022). Bamboo leaves: Hope for dry season ruminant livestock production in Ghana. *International Journal of Innovative Science and Research Technology*. https://www.academia.edu/download/94755481/IJISRT22MAY1987_1.pdf

16. A Osman, **EL Kwame OSAFO** (2022). Effects of the dietary inclusion of varying levels of paper mulberry (Broussonetia papyrifera) leaf meal on growth performance, nutrients digestibility and carcass …. *Animal Research International*. https://openurl.ebsco.com/contentitem/gcd:156631464?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:156631464&crl=c&jrnl=15973115

17. 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

18. A.O. Lala, A.O. Oso, **E.L.K. Osafo**, J.G.M. Houdijk, D.O. Eyarefe (2020). Effect of high concentration of phytase supplementation on energy and nutrient digestibility of growing pigs fed with reduced dietary crude protein balanced with limiting amino acids. *Livestock Science*. https://doi.org/10.1016/j.livsci.2020.104143

19. Adebukunola Olufunmilayo Lala, Abimbola Oladele Oso, **Emmanuel Lartey Osafo**, Jos G. M. Houdijk (2020). Impact of reduced dietary crude protein levels and phytase enzyme supplementation on growth response, slurry characteristics, and gas emissions of growing pigs. *Animal Science Journal*. https://doi.org/10.1111/asj.13381

20. A Osman, **ELK Osafo** (2019). Biomass yield and chemical composition of red napier grass harvested at 3 different dates after planting in the forest zone of Ghana. *Ghanaian Journal of Animal Science*. https://www.researchgate.net/profile/Alhassan-Osman/publication/341709651_BIOMASS_YIELD_AND_CHEMICAL_COMPOSITION_OF_RED_NAPIER_GRASS_HARVESTED_AT_3_DIFFERENT_DATES_AFTER_PLANTING_IN_THE_FOREST_ZONE_OF_GHANA/links/5ecfe3b2299bf1c67d26b58f/BIOMASS-YIELD-AND-CHEMICAL-COMPOSITION-OF-RED-NAPIER-GRASS-HARVESTED-AT-3-DIFFERENT-DATES-AFTER-PLANTING-IN-THE-FOREST-ZONE-OF-GHANA.pdf

21. L.N. Marius, **E.L.K. Osafo**, I.D.T. Mpofu, E Lutaaya, K.L. Shiningavamwe, E Missanjo, V Attoh-Kotoku (2019). Effect of Vachellia erioloba and Dichrostachys cinerea pod supplementation on performance of does and kids of Namibian Caprivi and Ovambo indigenous goats. *South African Journal of Animal Science*. https://doi.org/10.4314/sajas.v48i5.11

22. 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

23. A Osman, PK Karikari, **ELK Osafo** (2018). Smallholder urban cattle production: prospects and challenges in the Kumasi Metropolis and Asokore Mampong Municipality of the Ashanti Region of Ghana. *J. Anim. Sci. Biotechnol*. https://www.researchgate.net/profile/Alhassan-Osman/publication/330184288_Smallholder_urban_cattle_production_prospects_and_challenges_in_the_Kumasi_Metropolis_and_Asokorw_Mampong_Municipality_of_the_Ashanti_Region_of_Ghana/links/5c32a9aea6fdccd6b598569f/Smallholder-urban-cattle-production-prospects-and-challenges-in-the-Kumasi-Metropolis-and-Asokorw-Mampong-Municipality-of-the-Ashanti-Region-of-Ghana.pdf

24. **ELK Osafo** (2017). Indigenous knowledge and identification of local woody plant species as potential feeds for goats in the communal farming areas of Namibia. *Livestock Research for Rural Development*. https://lrrd.cipav.org.co/lrrd29/1/mari29010.html

25. C Antwi, **ELK Osafo** (2014). Chemical composition, gas production and degradation characteristics of haulms of improved dual-purpose Cowpea (Vigna unguiculata l. walp) cultivars. *Livestock Research for Rural Development*. https://www.researchgate.net/profile/Christopher-Antwi/publication/286621180_Chemical_composition_Gas_production_and_degradation_characteristics_of_haulms_of_improved_dual_purpose_cowpea_vigna_unguiculata_l_walp_cultivars/links/5e7319004585152cdbfd6e91/Chemical-composition-Gas-production-and-degradation-characteristics-of-haulms-of-improved-dual-purpose-cowpea-vigna-unguiculata-l-walp-cultivars.pdf

26. C Antwi, **ELK Osafo**, DS Fisher, HM Yacout, A Donkoh, AA Hassan, SMM Sobhy, H Adu-Dapaah, AZM Salem (2014). Effect of pesticides applied in cowpea production on rumen microbial fermentation of cowpea haulms as reflected in in vitro gas production. *South African Journal of Animal Science*. https://doi.org/10.4314/sajas.v44i3.2

27. KO Ansah, C Antwi, **ELK Osafo** (2014). Monitoring the feed intake and growth performance of Small Ruminants in the Atebubu-Amantin District. *Ghanaian Journal of Animal Science*. https://www.academia.edu/download/37272126/6.pdf

28. **Emmanuel Osafo** (2013). Feeding graded levels of an improved cultivar of cowpea haulm as supplement

for rams fed maize stover diet. *International Journal of Agricultural Research*. https://www.academia.edu/download/72659801/qredirect.pdf

29. **ELK Osafo** (2013). Influence of three protein sources (soyabean meal, groundnut meal and blood meal) with or without fishmeal, on performance of growing greater cane rats (grasscutters). *Innovation from Animal Science-a necessity not an option*. https://rau.repository.guildhe.ac.uk/id/eprint/16943/1/BSAS_2013_-_Proceedings.pdf#page=55

30. C Antwi, **ELK Osafo** (2013). OPTIONS FOR METHANE MITIGATION, CHALLENGES AND OPPORTUNITIES IN WEST AFRICA. *Journal of Ghana Science Association*. https://www.researchgate.net/profile/Christopher-Antwi/publication/283464101_Options_for_methane_mitigation_challenges_and_opportunities_Antwi_et_al_OPTIONS_FOR_METHANE_MITIGATION_CHALLENGES_AND_OPPOR-_TUNITIES_IN_WEST_AFRICA/links/5639521a08ae2da875c7a483/Options-for-methane-mitigation-challenges-and-opportunities-Antwi-et-al-OPTIONS-FOR-METHANE-MITIGATION-CHALLENGES-AND-OPPOR-TUNITIES-IN-WEST-AFRICA.pdf

31. T. Ansah, **E.L.K. Osafo**, Hanne Helene Hansen (2013). Variety, harvest date after planting and plant fraction of Napier grass influence in vitro gas production. *Research at the University of Copenhagen (University of Copenhagen)*.

32. N. A. Y. Twum-Danso, G. B. Akanlu, **E. Osafo**, S. Sodzi-Tettey, R. O. Boadu, S. Atinbire, A. Adondiwo, I. Amenga-Etego, F. Ashagbley, E. A. Boadu and 11 others (2012). A nationwide quality improvement project to accelerate Ghana's progress toward Millennium Development Goal Four: design and implementation progress. *International Journal for Quality in Health Care*. https://doi.org/10.1093/intqhc/mzs060

33. **ELK Osafo** (2012). H Abu-Dapaah Effects of cultivars, season and year on yield parameters of cowpea, and the haulms potential as ruminant feed. *Agricultural Science, Research. Journal*. https://scholar.google.com/scholar?cluster=6040110131390824833&hl=en&oi=scholarr

34. SO Apori, **ELK Osafo** (2012). Rabbit production in selected urban areas of Southern Ghana: Status and implications for policy and research. *Animal Production*. http://animalproduction.net/index.php/JAP/article/view/374

35. T. Ansah, **E. Osafo**, Hanne Hansen (2010). Herbage yield and chemical composition of four varieties of Napier (Pennisetum purpureum) grass harvested at three different days after planting. *Agriculture and Biology Journal of North America*. https://doi.org/10.5251/abjna.2010.1.5.923.929

36. C Antwi, **ELK Osafo** (2010). Storage practices and their effect on nutrient and haulm availability of four dual-purpose cultivars of cowpea (Vigna unguiculata L. walp) haulm. *Ghanaian Journal of Animal Science*. https://www.academia.edu/download/33720573/Storage_2010.pdf

37. PK Karikari, **ELK Osafo** (2009). Reproductive response of West African dwarf does to prostaglandin administration. *World Applied Sciences Journal*. https://www.researchgate.net/profile/Ebenezer-Blasu/publication/285586340_Reproductive_Response_of_West_African_Dwarf_Does_to_Prostaglandin_Administration/links/566040fd08ae1ef929857edd/Reproductive-Response-of-West-African-Dwarf-Does-to-Prostaglandin-Administration.pdf

38. Ansah, T., Hansen, Hanne Helene, Hindrichsen, Ida Katarina Auf der M, **Osafo, E.L.K.** (2009). The effects of harvesting date and variety on In Vitro gas production of napier grass (Pennisetum Purpereum). *Research at the University of Copenhagen (University of Copenhagen)*.

39. **ELK Osafo** (2007). Effects of Obatanpa (A Quality Protein Maize) with little or no fishmeal diets on growth performance and some carcass characteristics of finisher pigs. *Ghanaian J. Anim. Sci*. https://scholar.google.com/scholar?cluster=16229327903415927048&hl=en&oi=scholarr

40. E.S. Donkor, K.G. Aning, A. Omore, G.K. Nurah, **E.L.K. Osafo**, S. Staal (2007). Risk Factors in the Hygienic Quality of Milk in Ghana. *The Open Food Science Journal*. https://doi.org/10.2174/1874256400701010006

41. K.G. Aning, E. S. Donkor, A. Omore, G. K. Nurah, **E. L. K. Osafo**, S. Staal (2007). Risk of Exposure to Marketed Milk with Antimicrobial Drug Residues in Ghana. *The Open Food Science Journal*. https://doi.org/

10.2174/187425640701011046

42. PK Karikari, **ELK Osafo** (2007). THE EFFECTS OF UNDERNUTRITION DURING PREGNANCY ON THE RELATIONSHIP BETWEEN MATERNAL PLASMA METABOLITES CONCENTRATIONS AND LAMB BIRTH WEIGHT OF ADOLESCENT DJALLONKE SHEEP. *Ghanaian Journal of Animal Science*. http://www.udsspace.uds.edu.gh/handle/123456789/978
43. **ELK Osafo**, J Osei (2007). Varying levels of maize bran in diets on the performance and carcass characteristics of starter-grower pigs. *Proceedings of the 15th Biennial Conference of the Ghana Society for Animal Production, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana, 1st–4th August*. https://scholar.google.com/scholar?cluster=3197626603303369953&hl=en&oi=scholarr
44. **E Osafo** (2005). Goats, livestock and wealth creation. *Improving the husbandry of animals kept by resource-poor people in developing countries. Nottingham University Press, Manor Farm, Main Street Thrumpton Nottingham NG11 AX, United Kingdom*. https://scholar.google.com/scholar?cluster=5463374498097734198&hl=en&oi=scholarr
45. F.Y. Obese, **E.L.K. Osafo**, D.B. Okai (2001). Evaluation of the Feeding Value of Palm Press Fibre Using In Vitro Digestibility Techniques. *Tropical Animal Health and Production*. https://doi.org/10.1023/a:1005293732378
46. **ELK Osafo** (1997). Effects of amount offered and chopping on intake and selection of sorghum stover by Ethiopian sheep and cattle. *Animal Science*. https://www.cambridge.org/core/journals/animal-science/article/effects-of-amount-offered-and-chopping-on-intake-and-selection-of-sorghum-stover-by-ethiopian-sheep-and-cattle/D43F8822D4F5FE3A02E8945A58CF9A5C
47. **ELK Osafo** (1997). Excess Feeding of Stovers from Sorghum and Maize for Small Ruminants and Cattle in Cereal-based Integrated Farming Systems in Africa. *Second FAO Electronic Conference: Tropical Feeds Livestock Feed Resources within Integrated Farming Systems*. https://www.academia.edu/download/79983713/osafo.pdf
48. PK Karikari, **ELK Osafo** (1996). Assessment of the Reproductive Performance of a Flock of Djallonke Sheep Bred in a Humid Forest Environment. *Journal of Science and Technology*. https://webapps.knust.edu.gh/just/index.php?journal=just&page=article&op=view&path%5B%5D=912
49. **ELK Osafo** (1995). Haematological and Serum Biohemical Patterns in Large White Pigs Raised in Ghana. *Journal of Science and Technology*. https://webapps.knust.edu.gh/just/index.php?journal=just&page=article&op=view&path%5B%5D=950
50. **ELK Osafo** (1995). The effects of processed sheanut cake and groundnut skins on the growth performance and organ characteristics of rats. *Ghana Journal of Biochemistry, Biotechnology and Molecular Biology*. https://scholar.google.com/scholar?cluster=20563577932698259 19&hl=en&oi=scholarr
51. **ELK Osafo** (1994). The effect of mortality on the probable multiplication of sheep in the humid tropical zone in Ghana. *Proceedings of the 22nd Ghana Animal Science Association Symposium held at the University of Cape Coast, Cape Coast*. https://scholar.google.com/scholar?cluster=5803813888378159283&hl=en&oi=scholarr
52. **ELK Osafo** (1994). The effect of variety and amount offered of chopped sorghum stover on the performance of sheep. *Small ruminant research and development in Africa. Proceedings of the third biennial conference of the African small ruminant research network. UICC, Kampala, Uganda*. https://scholar.google.com/scholar?cluster=13080917368610294476&hl=en&oi=scholarr
53. **E Osafo** (1993). Effect on harvesting at different stages of growth and long-term storage on phenolics in sorghum stover. *BSAP Occasional Publication*. https://www.cambridge.org/core/journals/bsap-occasional-publication/article/effect-on-harvesting-at-different-stages-of-growth-and-longterm-storage-on-phenolics-in-sorghum-stover/15B798528497565A384D02B11905930E
54. **ELK Osafo** (1993). Feeding chopped sorghum stover to Ethiopian sheep: effects of sorghum variety and amount offered on intake, digestibility and live-weight change. *Proceedings of the British Society of Animal Production (1972)*. https://www.cambridge.org/core/journals/proceedings-of-the-british-society-of-animal-production-1972/article/feeding-chopped-sorghum-stover-to-ethiopian-sheep-effects-of-sorghum-variety-and-amount-offered-on-intake-digestibility-and-liveweight-change/

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56. **E. L. K. Osafo**, E. Owen, A. N. Said, M. Gill, A. B. McAllan, Y. Kebede (1993). Sorghum stover as ruminant food in Ethiopia: effect of cultivar, site of growth, pre-harvest leaf stripping and storage on yield and morphology. *BSAP Occasional Publication*. https://doi.org/10.1017/s0263967x00031396

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58. **ELK Osafo** (1991). Feeding sorghum stover to ethiopian sheep: effect of chopping and amount offered on growth, intake and selection. *Proceedings of the British Society of Animal Production (1972)*. https://www.cambridge.org/core/journals/proceedings-of-the-british-society-of-animal-production-1972/article/feeding-sorghum-stover-to-ethiopian-sheep-effect-of-chopping-and-amount-offered-on-growth-intake-and-selection/B3CD82FC9EE2FBCF89693DA1FC01C641

59. O.B. Smith, **E.L.K. Osafo**, A.A. Adegbola (1988). Studies on the feeding value of agro-industrial by-products: Strategies for improving the utilisation of cocoa-pod-based diets by ruminants. *Animal Feed Science and Technology*. https://doi.org/10.1016/0377-8401(88)90043-0

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Reports 5

1. HAGAN JULIUS KOFI, **ELK Osafo**, SO Apori (2014). Serum Immunoglobulin Concentrations In Normally Suckled And Bovine-Colostrum-Fed Djallonke Lambs During The First Seven Days Postpartum. *Ghana Society of Animal Production (GSAP)*. https://scholar.google.com/scholar?cluster=5510921050440739410&hl=en&oi=scholarr

2. SO Apori, **ELK Osafo** (2013). Acupuncture Treatment of Diarrhoea Condition in Tropical Sheep and Cattle. *Advanced Scholars Journals*. https://scholar.google.com/scholar?cluster=14658642724272514245&hl=en&oi=scholarr

3. **ELK Osafo**, SO Apori (2009). Synchronisation Of Oestrus And Batch Lambing In Djallonke Sheep. *Ghana Society of Animal Production (GSAP)*. https://scholar.google.com/scholar?cluster=9319198247908447830&hl=en&oi=scholarr

4. **E Osafo** (2001). Indigenous markets for dairy products in Africa: trade-offs between food safety and economics. *International Livestock Research Institute*. https://cgspace.cgiar.org/items/ba3e5adc-ffd3-4d4d-8b5d-6baaa12e9b3d

5. **ELK Osafo** (1998). Stability of yields of sorghum genotypes: Implications for animal production in the tropics. *British Society of Animal Science*. https://cgspace.cgiar.org/items/fd3c2fa0-4ba7-4544-bacf-bc4df184775f

Theses 1

1. **ELK Osafo** (1993). Sorghum stover as a forage: cultivar effects on yield and effects of chopping, amount offered, supplementation and variety on intake, selection and live-weight gain in .... *University of Reading*. https://cgspace.cgiar.org/items/8b935c85-0464-404e-b316-fd08a65c9ec9