Apori Samuel Obeng.

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University of Cape Coast

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RESEARCH

Interests: Ruminant Nutrition

Areas: Plant Science · Animal Science and Zoology · Agronomy and Crop Science · Pollution · Soil Science · Ecology, Evolution, Behavior and Systematics

RESEARCH SUMMARY

77	1,388	18	28	1.89	9%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 77 publications listed below, 1988–2026. Field-weighted impact is the mean over the 32 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 32 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Research scientist 2019–2028
faculty of agriculture, Uganda Martyrs University, Kampala, Uganda

Teaching Associate 2018–2019
soil science, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

Technological University Dublin 2021–present
Food Science and Environmental Health, Dublin, Ireland

MSc. Agroecology 2019–2021
faculty of Agriculture, Uganda Martyrs University, Kampala, Uganda

BSc Agriculture 2014–2018
University of Cape Coast, Cape Coast, Ghana

West African Senior School Certificate Examination 2010–2013
General Science, Abuakwa state college, Kibi, Ghana

PUBLICATIONS

Journal articles 67

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. Abdul Razak Ahmed, Abdul Aziz Karim, **Samuel Obeng Apori** (2026). Beet Necrotic Yellow Vein Virus: A Bibliometric and Scientometric Analysis. *Advances in Agriculture*. https://doi.org/10.1155/aia/4213102
3. **Apori Samuel Obeng** (2026). Biogenic chitosan-encapsulated Cu/ZnO nanocomposite surface coating inhibits MDR Pseudomonas aeruginosa biofilm establishment on orthopedic implants. *Saudi*

Pharmaceutical Journal. https://doi.org/10.1007/s44446-026-00098-8

4. 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
5. **SO Apori** (2026). Influence of Enhanced Rock Weathering of Nepheline-Syenite Tailings on Major and Trace Elements Accumulation in Wheat. *European Journal of Soil Science*. https://doi.org/10.1111/ejss.70282
6. **Samuel Obeng Apori** (2024). Assessment of nitrate and phosphate concentrations in discharge water from ditch networks across different peatland use types: Implications for sustainable peatland use management. *Sustainability*. https://www.mdpi.com/2071-1050/16/15/6463
7. **Samuel Obeng Apori** (2024). Bioaccumulation of Cr, Zn, Pb and Cu in Ambrosia artemisiifolia L. and Erigeron canadensis L. *Resources*. https://www.mdpi.com/2079-9276/13/3/43
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. Doris Yaa Osei, **Samuel Obeng Apori**, Julius Kofi Hagan, David Amedorme, Raphael Ayizanga (2024). Growth performance and carcass characteristics of rabbits fed concentrate diets containing graded levels of Brassica oleracea outer leaves and Musa paradisiaca leaves. *World Rabbit Science*. https://doi.org/10.4995/wrs.2024.19616
10. **Samuel Obeng Apori** (2024). Human health and ecological risk assessment of heavy metals in topsoil of different peatland use types. *Heliyon*. https://www.cell.com/heliyon/fulltext/S2405-8440(24)09655-5
11. Albert Kobina Mensah, **Apori Samuel Obeng**, Prince Addai, Alexander Owusu-Ansah, De-Graft Emmanuel Johnson Owusu-Ansah (2024). Potentially harmful elements in mining sites in Ghana: assessment of their carcinogenic and non-carcinogenic health risks for children and adults. *Management of Environmental Quality An International Journal*. https://doi.org/10.1108/meq-03-2024-0118
12. **Samuel Obeng Apori** (2024). Soil organic matter components and characteristics of forest soil in spruce and sycamore plantations in the temperate region. *Discover Agriculture*. https://doi.org/10.1007/s44279-024-00031-4
13. **Samuel Obeng Apori** (2024). Topsoil organic carbon and soil pH across different peatland use types in Co-Offaly, Ireland. *Soil Science Annual*. https://www.soilsa.com/Topsoil-organic-carbon-and-soil-pH-across-different-peatland-use-types-in-Co-Offaly,183768,0,2.html
14. **Samuel Obeng Apori** (2023). Potential of coffee grounds as a Sandy Soil amendment and its effect on growth and fruit quality of strawberry. *management*. https://www.academia.edu/download/100154398/Publication.pdf
15. **Apori Samuel Obeng** (2023). Soil organic matter carbon chemistry signatures, hydrophobicity and humification index following land use change in temperate peat soils. *Heliyon*. https://www.cell.com/heliyon/fulltext/S2405-8440(23)06555-6
16. Murongo Marius Flarian, Ayuke O. Frederick, **Apori Obeng Samuel**, Wangai K. John, Wacal Cosmas (2023). Variations in soil chemical properties and growth traits of tissue culture banana under bio-slurry soil amendments in Uganda. *Environmental Sustainability*. https://doi.org/10.1007/s42398-023-00274-9
17. HAGAN JULIUS KOFI, **SO Apori**, D Amedorme (2022). Essential and sulfur amino acid composition of five commonly fed tree leaves to rabbits in the coastal savannah zone of Ghana. *Ghanaian Journal of Animal Science*. https://www.ajol.info/index.php/gjansci/article/view/246097
18. **Samuel Obeng Apori** (2022). Mapping the restoration of degraded peatland as a research area: A scientometric review. *Frontiers in Environmental Science*. https://doi.org/10.3389/fenvs.2022.942788
19. Abdoulaye Fofana Fall, Grace Nakabonge, Joseph Ssekandi, Hassna Founoune-Mboup, **Samuel Obeng Apori**, Abibatou Ndiaye, Arfang Badji, Khady Ngom (2022). Roles of Arbuscular Mycorrhizal Fungi on Soil Fertility: Contribution in the Improvement of Physical, Chemical, and Biological Properties of the Soil.

Frontiers in Fungal Biology. https://doi.org/10.3389/ffunb.2022.723892

20. Doris Yaa Osei, **Samuel Obeng Apori**, Julius Kofi Hagan, Nikki Asuming-Bediako, David Amedorme, Peter Asiedu (2022). Sensory characteristics of meat from rabbits fed concentrate diets containing Brassica oleracea outer leaves and Musa paradisiaca leaves. *Ghana Journal of Science Technology and Development*. https://doi.org/10.47881/378.967x
21. **Samuel Obeng Apori** (2022). The biological activity of tea tree oil and hemp seed oil. *Applied Microbiology*. https://www.mdpi.com/2673-8007/2/3/41
22. **Samuel Obeng Apori**, John Byalebeka (2021). Contribution of corncob biochar to the chemical properties of a ferralsol in Uganda. *Arabian Journal of Geosciences*. https://doi.org/10.1007/s12517-021-07722-y
23. **Samuel Obeng Apori**, John Byalebeka, Marius Murongo, Joseph Ssekandi, Gordon Loguran Noel (2021). Effect of co-applied corncob biochar with farmyard manure and NPK fertilizer on tropical soil. *Resources Environment and Sustainability*. https://doi.org/10.1016/j.resenv.2021.100034
24. K. Muli Gideon, **O. Apori Samuel**, Ssekandi Joseph, Murongo Marius, Hanyabui Emmanuel (2021). Effect of linear view approach of weed management in agro-ecosystem: A review. *African Journal of Agricultural Research*. https://doi.org/10.5897/ajar2020.15267
25. Yeboah Asiamah Joshua, Plas Otwe Emmanuel, Danquah Andrews, **Obeng Apori Samuel**, Hanyabui Emmanuel (2021). Effect of spilled engine oil on soil quality indicators and physiological performance of maize, cowpea and sorghum. *African Journal of Environmental Science and Technology*. https://doi.org/10.5897/ajest2021.2999
26. **Samuel Obeng Apori** (2021). Hemp growth factors and extraction methods effect on antimicrobial activity of hemp seed oil: A systematic review. *Separations*. https://www.mdpi.com/2297-8739/8/10/183
27. **Samuel Obeng Apori** (2021). Hospital effluents and wastewater treatment plants: a source of oxytetracycline and antimicrobial-resistant bacteria in seafood. *Sustainability*. https://www.mdpi.com/2071-1050/13/24/13967
28. Abdoulaye Fofana Fall, Joseph Ssekandi, Amos Kipkemoi Ronoh, **Samuel Obeng Apori**, Abibatou Ndiaye, Beatrice Wamuyu Mbugua (2021). Impacts of COVID 19 Total Confinement on Rural Youth Food Security. *Journal of Food and Nutrition Sciences*. https://doi.org/10.11648/j.jfns.20210904.11
29. Wamuyu Mbugua Beatrice, **Apori Obeng Samuel**, Murongo Marius, Opoku-Agyemang Williams, Hanyabui Emmanuel, Fofana Fall Abdoulaye (2021). Impacts on access to factors of production among smallholder farmers in central Uganda during COVID-19 lockdown. *African Journal of Agricultural Research*. https://doi.org/10.5897/ajar2021.15646
30. Hanyabui Emmanuel, **Obeng Apori Samuel**, Akaba Selorm, Ssekandi Joseph (2021). Implementation of COVID-19 control measures: Effect on fertilizer supply and soil fertility in Africa. *African Journal of Agricultural Research*. https://doi.org/10.5897/ajar2021.15621
31. **Samuel Obeng Apori**, John Byalebeka, Gideon Kalii Muli (2021). Residual effects of corncob biochar on tropical degraded soil in central Uganda. *ENVIRONMENTAL SYSTEMS RESEARCH*. https://doi.org/10.1186/s40068-021-00235-3
32. **Apori Samuel Obeng**, Adams Sadick, Emmanuel Hanyabui, Mohammed Musah, Murongo Marius, Mark Kwasi Acheampong (2020). Evaluation of soil fertility status in oil palm plantations in the Western Region of Ghana. *AIMS Agriculture and Food*. https://doi.org/10.3934/agrfood.2020.4.938
33. **Samuel Obeng Apori**, Kofi Atiah, Emmanuel Hanyabui, John Byalebeka (2020). MORINGA OLEIFERA SEEDS AS A LOW-COST BIOSORBENT FOR REMOVING HEAVY METALS FROM WASTEWATER. *STED JOURNAL*. https://doi.org/10.7251/sted2002045o
34. Emmanuel Hanyabui, **Samuel Obeng Apori**, Kwame Agyei Frimpong, Kofi Atiah, Thomas Abindaw, Muhammed Ali, Joshua Yeboah Asiamah, John Byalebeka (2020). Phosphorus sorption in tropical soils. *AIMS Agriculture and Food*. https://doi.org/10.3934/agrfood.2020.4.599
35. **Samuel Obeng Apori**, Marius Murongo, Emmanuel Hanyabui, Kofi Atiah, John Byalebeka (2020). Potential of termite mounds and its surrounding soils as soil amendments in smallholder farms in central Uganda. *BMC Research Notes*. https://doi.org/10.1186/s13104-020-05236-6

36. **Samuel Obeng Apori**, Murongo Marius Flarian, Emmanuel Hanyabui, Gideon Kalii Muli, Beatrice Wamuyu (2020). Role of Military Termites (Pseudocanthotermes militaris) in Improving Soil Productivity in Tropical Agroecosystems. *Annual Research & Review in Biology*. https://doi.org/10.9734/arrb/2020/v35i530221

37. JY Asiamah, F Kyei, **Samuel Obeng Apori**, A Danquah (2020). The Potential of Biodiversity Utilization and Sustainable Development in Ghana. *Journal of Sustainable Development in Africa*. https://openurl.ebsco.com/contentitem/gcd:144796137?sid=ebsco:plink:crawler-gcd&id=ebsco:gcd:144796137&crl=c&jrnl=15205509

38. Haruna Baako, Adams Sadick, Kwame O. Awuah, Inusah Mahama, **Apori S. Obeng** (2019). Water Quality Appraisal in Selected Rivers at Atiwa Forest in the Eastern Region of Ghana. *Asian Journal of Environment & Ecology*. https://doi.org/10.9734/ajee/2018/v8i330076

39. **O. S. Apori**, E. Hanyabui, Y. J. Asiamah (2018). Remediation Technology for Copper Contaminated Soil: A Review. *Asian Soil Research Journal*. https://doi.org/10.9734/asrj/2018/v1i326338

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43. J. K. Hagan, **Samuel Obeng Apori** (2013). The egg production performance of three layer strains kept under intensive system in the hot and humid tropics. *Scientific Journal of Animal Science*. https://doi.org/10.14196/sjas.v2i6.742

44. **APORI SAMUEL OBENG.** (2013). Trace metal concentrations in some tea leaves consumed in Ibadan, Nigeria. *African Journal of Agricultural Research*. https://academicjournals.org/article/article1386060831_Dawodu%20et%20al.pdf

45. K. Agyeman, **S. O. Apori** (2012). A Survey of browse plants used in feeding small ruminants in the Komenda- Edina-Eguafo-Abrem district (K.E.E.A) of the Central Region of Ghana. *South Asian Journal of Experimental Biology*. https://doi.org/10.38150/sajeb.2(5).p196-203

46. Maame Afua Nkrumah, **Samuel Obeng Apori** (2012). Curbing examination malpractices in Ghanaian tertiary institutions: The case of Takoradi Polytechnic. *Journal of Educational Management*. https://doi.org/10.47963/jem.v6i.410

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48. **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

49. **SO Apori** (2011). Livestock marketing in the coastal savannah zone of Ghana. *Proceedings of the 17th Biennial Conference of the Ghana Society of Animal Production, 20th-23rd July*. https://scholar.google.com/scholar?cluster=13817868313783008846&hl=en&oi=scholarr

50. **SO Apori** (2010). THE DILEMA OF MINING COMMUNITIES: IS MINING A CURSE OR A BLESSING? THE CASE OF BOGOSO. *INTERNATIONAL POSTGRADUATE RESEARCH CONFERENCE ON THE BUILT ENVIRONMENT*. https://www.researchgate.net/profile/Frank-Fugar/publication/341164847_The_Changing_Climate_and_the_Built_Environment_in_the_21st_Century_Challenges_and_Opportunities/links/

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51. **SO Apori** (2009). Livestock entrepreneurs from Northern Ghana. Their motivations and challenges. *Proceedings of the 10th Annual Conference. Reposition Africa Business and Development for the 21st Century (IAABD), Ghana*. https://scholar.google.com/scholar?cluster=11574221355003985382&hl=en&oi=scholarr

52. **Samuel Obeng Apori** (2008). An analysis of HRM Practices in Polytechnics in Ghana: The Impact of Size. *Global and Local Dynamics in African Business and Development*. https://www.academia.edu/download/30602988/2008_IAABD_Proceedings.pdf#page=547

53. **Samuel Obeng Apori**, Maame Afua Nkrumah (2008). Improving the use of Competence-Based Training (CBT) in polytechnic education in Ghana: an evaluation of the civil engineering department of Takoradi Polytechnic. *Journal of Educational Management*. https://doi.org/10.47963/jem.v5i.394

54. **Samuel Obeng Apori** (2008). The contribution of human capital and resource-based view to small-and medium-sized tourism venture performance in Ghana. *International Journal of Emerging Markets*. https://www.emerald.com/ijoem/article/3/3/268/147694

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56. **SO Apori** (2003). Factors that Influence the Choice of Agriculture Science by Senior Secondary School Students: A Case Study of Students in Cape Coast Municipality of Ghana Proceedings of the 19 …. *Proceedings of the Annual Conference Association for International Agriculture and Extension Education*. https://scholar.google.com/scholar?cluster=8696692823073349868&hl=en&oi=scholarr

57. **SO Apori** (2003). Some chemical and biological measurements of two contrasting cultivars of Gliricidia sepium (Jacq) Kunth ex Walp. *Livestock Research for Rural Development*. https://www.researchgate.net/profile/Redimio-Pedraza-Olivera/publication/288353406_Some_chemical_and_biological_measurements_of_two_contrasting_cultivars_of_Gliricidia_sepium_Jacq_Kunth_ex_Walp/links/5a85c2980f7e9b1a95485ef9/Some-chemical-and-biological-measurements-of-two-contrasting-cultivars-of-Gliricidia-sepium-Jacq-Kunth-ex-Walp.pdf

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59. ANNOR-FREMPONG FESTUS, **Samuel Apori** (2001). Tertiary Education for Mid-Career Level Extension Personnel: Ghana case study.". *FAO Regional office for Africa Accra, Ghana, Winrock International institute for Agricultural Development (USA), School of Agriculture, University of cape Coast*. https://www.academia.edu/download/77039938/pa36.pdf

60. R.J Long, **S.O Apori**, F.B Castro, E.R Ørskov (1999). Feed value of native forages of the Tibetan Plateau of China. *Animal Feed Science and Technology*. https://doi.org/10.1016/s0377-8401(99)00057-7

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62. **SO Apori** (1997). Utilization of teaching space facilities at the science faculty building complex, University of Cape Coast. *Unpublished M. Phil Thesis, University of Cape Coast*. https://scholar.google.com/scholar?cluster=3640179911377814 47&hl=en&oi=scholarr

63. PK Turkson, **SO Apori** (1995). Study of traditional small ruminant production systems in 2 districts of Central Region, Ghana. *Phase I. Diagnostic survey,(Report submitted to National Agricultural Research Project, Accra, Ghana)*. https://scholar.google.com/scholar?cluster=9863094873734263453&hl=en&oi=scholarr

64. **S. O. Apori** (1994). Biochemical changes that occur in plantain (unripe) and cassava peels during processing (sun-drying). *Communications in Soil Science and Plant Analysis*. https://doi.org/10.1080/00103629409369155

65. **SO Apori** (1992). Constraints to small ruminant production in forest zones of Ghana. A case study of Assin Foso District in Central Region of Ghana. *Proceedings of West Africa Commonwealth Veterinary Association and Ghana Veterinary Medical Association Conference, Accra*. https://scholar.google.com/scholar?cluster=12014385603864941801&hl=en&oi=scholarr

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Reports 9

1. **Samuel Apori** (2023). Comparison of Culturable Microbial Groups Present in Selected Peatlands in Midlands of the Republic of Ireland: Effect of 'Peatland Use'Type on Microbial Consortia; A Pilot Study. *Technological University Dublin*. https://arrow.tudublin.ie/diraaart/29/

2. **Samuel Obeng Apori** (2023). Mealybug vectors: A review of their transmission of plant viruses and their management strategies. *Technological University Dublin*. https://arrow.tudublin.ie/schfsehart/537/

3. **Samuel Obeng Apori** (2022). Mapping the Restoration of Degraded Peatland as a Field of Research Area: A Scientometric Review. *Technological University Dublin*. https://arrow.tudublin.ie/schfsehart/495/

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5. 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

6. **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

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9. **SO Apori** (2006). The impact of livestock production on global warming. *Ghana Society of Animal Production (GSAP)*. https://scholar.google.com/scholar?cluster=11701754602935025479&hl=en&oi=scholarr

Theses 1

1. **SO Apori** (1988). Replacement value of yam peels for maize in the diet of White Fulani cattle. *PhD Thesis, University of Ibadan, Nigeria*. https://scholar.google.com/scholar?cluster=6060919811925998011&hl=en&oi=scholarr