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RESEARCH

Interests	Climate Change and Variability · Food Security · Climate Change Adaptations · Vulnerability Assessments
Areas	Ecology, Evolution, Behavior and Systematics · General Agricultural and Biological Sciences · Soil Science · Global and Planetary Change · Plant Science · Pollution

RESEARCH SUMMARY

109	5,252	37	66	8.71	62%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 109 publications listed below, 2008–2026. Field-weighted impact is the mean over the 94 works scored for it; 1.00 is the world average for works of the same field, type and year. 58 of the 94 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 103

1. Fidelis Yawa-ib Yapel, **Philip Antwi-Agyei**, Frank Baffour-Ata (2026). Combined effects of climate change, land use, and land cover changes on cocoa production: A mixed-methods analysis in Atwima Mponua District, Ghana. *Sustainable Geosciences People Planet and Prosperity*. https://doi.org/10.1016/j.susgeo.2026.100019
2. **P Antwi-Agyei**, G Adom-Asamoah (2026). Educating the rural woman farmer for climate resilience in the global south: enablers and barriers. *University Initiatives on Climate Change Education and Research*.
3. Gideon Baffoe, Selorm Yaotse Dorvlo, Abena Boakye, Eleanor Jew, **Philip Antwi-Agyei**, Andy Dougil (2026). Fragmented urban food governance and impacts on the marginalisation of indigenous crops in Ghana. *Food Policy*. https://doi.org/10.1016/j.foodpol.2026.103170
4. Jonathan Atta-Aidoo, Emmanuel Mawuli Abalo, **Philip Antwi-Agyei**, Deborah Naa Akoto Dodoo, Andrew Dougill, Christopher Ogbanje (2026). Incorporating climate-smart agriculture into the national policies of Ghana and Nigeria. *Frontiers in Sustainable Food Systems*. https://doi.org/10.3389/fsufs.2026.1814135
5. Louisa Boakye, **Philip Antwi-Agyei**, Frank Baffour-Ata (2026). Mapping documented traditional and indigenous agro-ecological knowledge in Ghana: a systematic review. *Agroforestry Systems*. https://doi.org/10.1007/s10457-026-01662-w
6. **Philip Antwi-Agyei**, Vincent Yaw Nkrumah Eloh, Prince Opoku Nti, Nartey Christian Amarh, Thelma Phoebe Owusu (2025). Climate-smart agricultural practices by smallholder cocoa farmers in the semi-deciduous forest agro-ecological zone of Ghana. *Discover Sustainability*. https://doi.org/10.1007/s43621-025-01534-w
7. Jonathan Atta-Aidoo, **Philip Antwi-Agyei** (2025). Climate-smart agriculture adoption in rural Ghana: do resource requirements matter? *BMC Environmental Science*. https://doi.org/10.1186/s44329-025-00018-6
8. **Philip Antwi-Agyei**, Emmanuel Baidoo, Awudu Abubakari, Bright Oteng Adarkwa, Edmund Kyei Akoto-Danso, Vincent Logah, Robert Clement Abaidoo (2025). Conservation agriculture in mesic savannas:

impact on soil organic carbon and nutrient stocks in Ghana. *Environmental Earth Sciences*. https://doi.org/10.1007/s12665-025-12321-1

9. Felix KPENEKUU, **Philip ANTWI-AGYEI**, Fred NIMOH, Andrew DOUGILL, Albert BANUNLE, Jonathan ATTA-AIDOO, Frank BAFFOUR-ATA, Thomas Peprah AGYEKUM, Godfred ADDAI, Lawrence GUODAAR (2025). Cost and benefit analysis of Climate-Smart Agriculture interventions in the dryland farming systems of northern Ghana. *Regional Sustainability*. https://doi.org/10.1016/j.regsus.2025.100196
10. Frank Baffour-Ata, **Philip Antwi-Agyei**, Kojo Selasi Ashiadey, Stephen Oppong Kwakye, Louisa Boakye (2025). Effect of Rainfall Variability on Rice Production in the Ketu North Municipality, Ghana. *Climate Resilience and Sustainability*. https://doi.org/10.1002/cli2.70019
11. Iddisah Alhassan, **Philip Antwi-Agyei**, William Adzawla, Mihaela Sima, Alexander Siegmund, Emmanuel Eze (2025). Examining effects of climate information utilization by climate-vulnerability groups in the northern region of Ghana. *Frontiers in Climate*. https://doi.org/10.3389/fclim.2024.1482044
12. Iddisah Alhassan, **Philip Antwi-Agyei**, William Adzawla, Mihaela Sima (2025). Factors influencing the access and utilization of climate information by farmers from different climate vulnerable districts of Northern Region, Ghana. *Climate Services*. https://doi.org/10.1016/j.cliser.2025.100557
13. Yaw Agyeman Boafo, Bob Manteaw, **Philip Antwi-Agyei**, Portia Adade-Williams, Nana Ama Browne Klutse, Kofi Asare, Doreen Larkailey Lartey, Bernard Ayittiah (2025). Future climate risks and sectoral vulnerabilities shaping resilience in the Cape Coast Metropolis, Ghana. *Discover Cities*. https://doi.org/10.1007/s44327-025-00114-x
14. Charles Lamoussa Sanou, Sampson Kwaku Agodzo, Larba Hubert Balima, Enoch Bessah, **Philip Antwi-Agyei**, Karim Traoré (2025). Influence of climate change on livestock diseases occurrence in Burkina faso, West Africa. *International Journal of Biometeorology*. https://doi.org/10.1007/s00484-025-03041-z
15. Ousmane Badji, Kwame Oppong Hackman, Michael Thiel, Daouda Ngom, Soumaya Fall, Inspection Regionale des Eaux et Forêts, Fatick, Senegal, **Philip Antwi-Agyei** (2025). Modelling Woody Vegetation Suitability in Saloum Delta Ramsar Site (West-Africa): Implications for Conservation and Land Restoration. *International Journal of Current Science Research and Review*. https://doi.org/10.47191/ijcsrr/v8-i8-41
16. Gideon Baffoe, **Philip Antwi-Agyei** (2025). Rethinking the potential of urban agriculture as a climate resilience strategy: Evidence from Accra, Ghana. *City and Environment Interactions*. https://doi.org/10.1016/j.cacint.2025.100229
17. Ruth Akorli, **Philip Antwi-Agyei**, Patrick Davies, James Damsere-Derry, Frank Baffour-Ata, Emmanuel Nakua, Peter Donkor, Charles Mock (2025). The impact of climate change on road traffic crashes in Ghana. *International Journal of Biometeorology*. https://doi.org/10.1007/s00484-025-02964-x
18. Colin R. Anderson, Tomaso Ferrando, Alison Blay-Palmer, Francisco J. Espinosa-García, Lídia Cabral, Paola Termine, Johanna Wilkes, Tammara Soma, Garima Bhalla, Isabel Madzorera, **Philip Antwi-Agyei**, Monika Zurek (2025). Time for a vision exam: diagnosing problems in the pursuit of equitably transformative resilience in food systems. *Agroecology and Sustainable Food Systems*. https://doi.org/10.1080/21683565.2025.2588252
19. **Philip Antwi-Agyei**, Frank Baffour-Ata, Joseph Alhassan, Felix Kpenekuu, Andrew J. Dougill (2025). Understanding the barriers and knowledge gaps to climate-smart agriculture and climate information services: A multi-stakeholder analysis of smallholder farmers' uptake in Ghana. *World Development Sustainability*. https://doi.org/10.1016/j.wds.2025.100206
20. Charles Lamoussa Sanou, Oblé Neya, Sampson Kwaku Agodzo, Enoch Bessah, **Philip Antwi-Agyei**, Larba Hubert Balima (2025). Woody species diversity and aboveground carbon stocks in agroforestry systems in Burkina Faso. *Discover Sustainability*. https://doi.org/10.1007/s43621-025-00868-9
21. Thomas Peprah Agyekum, **Philip Antwi-Agyei**, Andrew J. Dougill, Lindsay C. Stringer (2024). Benefits and barriers to the adoption of climate-smart agriculture practices in West Africa: A systematic review. *Climate Resilience and Sustainability*. https://doi.org/10.1002/cli2.79
22. Amma Birago Kantanka Gyimah, **Philip Antwi-Agyei**, Gifty Adom-Asamoah, Frank Baffour-Ata (2024). Drivers of adaptive capacity of rural women farmers: The role of climate action and information mediums in rural Ghana. *Climate Resilience and Sustainability*. https://doi.org/10.1002/cli2.67

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26. Frank Baffour-Ata, **Philip Antwi-Agyei**, Louisa Boakye, Lester Simon Nii Aryee Tettey, Muriel Nana Efua Fosuaa Forson, Albright Ewenam Abiwu, Emmanuel Gyenin, Rebecca Naa Merley Larbi (2023). Assessing the adaptive capacity of smallholder cocoa farmers to climate variability in the Adansi South District of the Ashanti Region, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e13994

27. **Philip Antwi-Agyei**, Jonathan Atta-Aidoo, Lawrence Guodaar, Andrew Dougill (2023). Building climate resilience through crop residue utilization: Experiences of Ghanaian smallholder farmers. *Climate Resilience and Sustainability*. https://doi.org/10.1002/cli2.55

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32. Enoch Yeleliere, **Philip Antwi-Agyei**, Frank Baffour-Ata (2023). Impacts of climate change on the yields of leguminous crops in the Guinea Savanna agroecological zone of Ghana. *Regional Sustainability*. https://doi.org/10.1016/j.regsus.2023.04.002

33. Eric Amissah, Thomas Adjei-Gyapong, **Philip Antwi-Agyei**, Eric Asamoah, Robert C. Abaidoo, Erik Jeppesen, Mathias Neumann Andersen, Emmanuel Baidoo (2023). Implications of changes in land use on soil and biomass carbon sequestration: a case study from the Owabi reservoir catchment in Ghana. *Carbon Management*. https://doi.org/10.1080/17583004.2023.2166871

34. Kwabena Antwi, **Philip Antwi-Agyei** (2023). Intra-gendered perceptions and adoption of climate-smart agriculture: Evidence from smallholder farmers in the Upper East Region of Ghana. *Environmental Challenges*. https://doi.org/10.1016/j.envc.2023.100736

35. Enoch Yeleliere, **Philip Antwi-Agyei**, Andy B. Nyamekye (2023). Mainstreaming Indigenous Knowledge Systems and Practices in Climate-Sensitive Policies for Resilient Agricultural Systems in Ghana. *Society & Natural Resources*. https://doi.org/10.1080/08941920.2023.2183446

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(2023). Trade-offs, synergies and acceptability of climate smart agricultural practices by smallholder farmers in rural Ghana. *International Journal of Agricultural Sustainability*. https://doi.org/10.1080/14735903.2023.2193439

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42. Philip Tetteh Quarshie, Abdul-Rahim Abdulai, Seidu Abdulai, **Philip Antwi-Agyei**, Evan D.G. Fraser (2023). Why "formal" climate adaptation strategies fail in sub-Saharan Africa: Ignoring adapters' agency in the case of smallholding agriculture farming practices in Bono East Region of Ghana. *Climate Resilience and Sustainability*. https://doi.org/10.1002/cli2.53
43. Jonathan Atta-Aidoo, **Philip Antwi-Agyei**, Andrew John Dougill, Christopher Elaigwu Ogbanje, Edmund Kyei Akoto-Danso, Samuel Eze (2022). Adoption of climate-smart agricultural practices by smallholder farmers in rural Ghana: An application of the theory of planned behavior. *PLOS Climate*. https://doi.org/10.1371/journal.pclm.0000082
44. Frank Baffour-Ata, **Philip Antwi-Agyei**, Elias Nkiaka, Andrew J. Dougill, Alexander K. Anning, Stephen Oppong Kwakye (2022). Climate Information Services Available to Farming Households in Northern Region, Ghana. *Weather Climate and Society*. https://doi.org/10.1175/wcas-d-21-0075.1
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46. **P Antwi-Agyei**, K Amanor, Delali BK Dovie, Rebecca Owusu (2022). Current Research in Environmental Sustainability. *Current Research in Environmental Sustainability*. https://www.researchgate.net/profile/Moses-Kwadzo/publication/359255395_Pollution_and_climate_change_impacts_on_livelihood_outcomes_of_lagoon_fishermen_in_Central_Region_Ghana/links/63172e1761e4553b956c62db/Pollution-and-climate-change-impacts-on-livelihood-outcomes-of-lagoon-fishermen-in-Central-Region-Ghana.pdf
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50. Philip Tetteh Quarshie, **Philip Antwi-Agyei**, Neville N. Suh, Evan D. G. Fraser (2022). Tackling post-COVID-19 pandemic food crises through the adoption of improved maize seeds and technologies by smallholder farmers: The case of Ejura Sekyeredumase in Ghana. *Frontiers in Sustainable Food Systems*. https://doi.org/10.3389/fsufs.2022.804984
51. Thomas Peprah Agyekum, **Philip Antwi-Agyei**, Andrew J. Dougill (2022). The contribution of weather forecast information to agriculture, water, and energy sectors in East and West Africa: A systematic

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