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RESEARCH

Interests	Water Resources Engineering · Environmental Engineering · Climate Change Studies
Areas	Ecology, Evolution, Behavior and Systematics · Soil Science · Water Science and Technology · Global and Planetary Change · Plant Science · Agronomy and Crop Science

RESEARCH SUMMARY

13	293	7	6	5.87	50%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 13 publications listed below, 2007–2025. Field-weighted impact is the mean over the 8 works scored for it; 1.00 is the world average for works of the same field, type and year. 4 of the 8 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 10

1. 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
2. J.N. Marfo, J.A. Quaye-Ballard, **S.O. Kwakye**, K. Obeng, A. Arko-Adjei, N.L. Quaye-Ballard, R.N.A. Quao (2024). Groundwater quality and potential analysis using geospatial techniques: The case of Ashanti Region in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e27545
3. Samuel Asante Gyamerah, Victor Owusu, **Stephen Oppong Kwakye** (2024). Marginal Impact of climate variability on crop yields in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02314
4. **Stephen Oppong Kwakye**, Ebenezer Ebo Yahans Amuah, Kingsford Agyapong Ankoma, Emmanuella Boateng Agyemang, Boadi-George Owusu (2023). Understanding the performance and challenges of solid waste management in an emerging megacity: Insights from the developing world. *Environmental Challenges*. https://doi.org/10.1016/j.envc.2023.100805
5. 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
6. Frank Baffour-Ata, Philip Antwi-Agyei, Elias Nkiaka, Andrew J. Dougill, Alexander K. Anning, **Stephen Oppong Kwakye** (2021). Effect of climate variability on yields of selected staple food crops in northern Ghana. *Journal of Agriculture and Food Research*. https://doi.org/10.1016/j.jafr.2021.100205
7. **Stephen Oppong Kwakye**, IA Apike, HO Tuffour, D Awunyo-Vitor, AK Anning (2021). Journal of Agriculture and Food Research. *Journal of Agriculture and Food Research*. https://www.researchgate.net/profile/William-Amponsah-2/publication/355437174_Response_of_chilli_pepper_to_different_irrigation_schedules_and_mulching_technologies_in_semi-arid_environments/links/62fa0ddcb8dc8b4403e47768/Response-of-chilli-pepper-to-different-irrigation-schedules-and-mulching-technologies-in-semi-arid-environments.pdf
8. **Stephen Oppong Kwakye**, András Bárdossy (2021). Quantification of the hydrological consequences of

climate change in a typical West African catchment using flow duration curves. *Journal of Water and Climate Change*. https://doi.org/10.2166/wcc.2021.147

9. **Stephen Oppong Kwakye**, András Bárdossy (2020). Hydrological modelling in data-scarce catchments: Black Volta basin in West Africa. *SN Applied Sciences*. https://doi.org/10.1007/s42452-020-2454-4

10. **SO Kwakye** (2018). A Study on Climate Change in the West African Sub-Region. *International Conference on Applied Science and Technology Conference Proceedings*. https://scholar.google.com/scholar?cluster=9162955690898215804&hl=en&oi=scholarr

Conference papers 1

1. **SO Kwakye** (2015). Precipitation in the West African Sub-Region. *European Geophysical Union, EGU*.

Reports 2

1. **SO Kwakye** (2016). Study on the effects of climate change on the hydrology of the West African sub-region. *Stuttgart: Eigenverlag des Instituts für Wasser-und Umweltsystemmodellierung ….* https://elib.uni-stuttgart.de/bitstreams/ca29a9ed-2353-494d-8f62-0a6cd097055d/download

2. **Stephen Oppong Kwakye** (2007). Adolescent sexuality and reproductive health in Ghana: some results from a survey of Cape Coast and Mankrong. *Population*. https://scholar.google.com/scholar?cluster=13412239495846083569&hl=en&oi=scholarr