Dr. Stephen Twumasi Annan

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RESEARCH

Interests	Artisanal Gold Mining · Disaster Risk Assessment · Ecosystem services and livelihood development
Areas	Education · Water Science and Technology · Pollution · Waste Management and Disposal · Food Science · Building and Construction

RESEARCH SUMMARY

21	117	6	4	0.44	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 21 publications listed below, 2014–2026. Field-weighted impact is the mean over the 11 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 11 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 20

1. **Stephen Twumasi Annan**, Richard Yamoah, Felix Tetteh Kabutey, Prosper Deo-Donne Lumorh, Francis Kastro Kavi, Rebecca Kitien Yandam, Collins Owusu-Fordjour (2026). Assessing Sustainable Solid Waste Management Practices in Selected Senior High Schools in the New Juabeng North Municipality, Ghana. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2026.144011
2. **Stephen Twumasi Annan**, Felix Tetteh Kabutey, Vera Owusu Ansah, Bismark Yeboah Boasu, Prosper Deo-Donne Lumorh, Francis Adarkwah, Francis Kastro Kavi, Worlanyo Kwabena Agbosu (2026). Concurrent Water Quality Assessment of Surface and Tap Water in Selected Communities in the Eastern Region of Ghana. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2026.143010
3. **ST Annan** (2026). Physico-Chemical Quality and Heavy Metal Assessment of Surface Water Sources in Artisanal Mining Communities in Mpohor Wassa East District, Ghana. *West African Journal of Applied Ecology*.
4. Kizito Attah Gesuli-Saliba, Felix Tetteh Kabutey, **Stephen Twumasi Annan**, Florence Esi Nyieku, Worlanyo Kwabena Agbosu, Prosper Deo-Donne Lumorh, Francis Kwaku Nkansah (2026). Solid Waste Generation and Management Practices at the University of Education, Winneba. *Open Journal of Applied Sciences*. https://doi.org/10.4236/ojapps.2026.163054
5. Yaw Agyeman Boafo, V Owusu, **Stephen Twumasi Annan** (2026). Urban Residents' Perceptions of Urban Trees and Participation in Tree Planting Activities in a Rapidly Urbanising Neighbourhood of Accra, Ghana. *Arboriculture & Urban Forestry*. https://auf.isa-arbor.com/content/early/2026/09/16/jauf.2026.028
6. **Stephen Twumasi Annan**, Bismark Yeboah Boasu, Anthony Anyamesem-Poku, Roseline Addae (2024). Small-Scale Mining and Academic Performance of Ghanaian Students at the Basic Level. *Creative Education*. https://doi.org/10.4236/ce.2024.154035
7. **Stephen Twumasi Annan** (2024). The Ban on Illegal Mining in Ghana: Environmental and Socio-Economic Effect on Local Communities. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2024.123009
8. Collins Owusu-Fordjour, Charles Kwesi Koomson, **Stephen Twumasi Annan**, Ruth Otison Asante (2023).

Influence of Peer Tutoring on Undergraduate Students' Anxiety in Integrated Science: A Case Study of University of Education, Winneba. *Science education international*. https://doi.org/10.33828/sei.v34.i2.10

9. CK Koomson, **ST Annan** (2022). AN ASSESSMENT OF PERSONNEL AND INFRASTRUCTURAL READINESS FOR THE IMPLEMENTATION OF THE NEW BASIC SCHOOL SCIENCE CURRICULUM IN THE NORTHERN REGION OF GHANA. *International Journal of Academic Research and Reflection*. https://www.academia.edu/download/85156306/Full_Paper_AN_ASSESSMENT_OF_PERSONNEL_AND_INFRASTRUCTURAL_READINESS_FOR_THE_IMPLEMENTATION_OF_THE_NEW_BASIC_SCHOOL.pdf
10. **Stephen Twumasi Annan**, Bright Frimpong, Collins Owusu-Fordjour, Bismark Yeboah Boasu (2022). Assessing Localized Contamination Hazard and Groundwater Quality Challenges in Water-Stressed Peri-Urban Accra, Ghana. *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2022.101002
11. RANCIS KWAKU NKANSAH, NANA AGYEIWAA AMPOFO, GODFRED SAFO-ADU, **STEPHEN TWUMASI ANNAN** (2022). HEAVY METAL CONTAMINATION IN VEGETABLE PARTS AND SOIL OF CULTIVATED CAPSICUM ANNUM AND ABELMOSCHUS ESCULENTUS. *Pollution Research*. https://doi.org/10.53550/pr.2022.v41i04.001
12. **ST Annan**, Collins Owusu-Fordjour, CK Koomson (2021). CURRICULUM KNOWLEDGE OF SCIENCE TEACHERS AND ITS EFFECTS ON ACADEMIC PERFORMANCE OF PUPILS. *International Journal of Academic Research and Reflection*. https://www.academia.edu/download/85166193/CURRICULUM_KNOWLEDGE_OF_SCIENCE_TEACHERS_AND_ITS_EFFECTS_ON_ACADEMIC_PERFORMANCE_OF_PUPILS.pdf
13. Saviour V. K. Adjibolosoo, **Stephen T. Annan**, Emmanuel Owusu, Twumasi A. K. (2019). Antecedent Factors That Motivated People to Be Successful in Science: The Case of Wa District of the Upper West Region, Ghana. *International Journal of Innovative Research and Development*. https://doi.org/10.24940/ijird/2019/v8/i7/jul19024
14. **Stephen Twumasi Annan** (2019). Assessment of the inquiry teaching method on academic achievements of students in Biology education at Mawuko Girls School, Ho, Ghana. *American Journal of Educational Research*. https://www.academia.edu/download/58600110/ENQUIRY_METHODS_2019.pdf
15. **Stephen Twumasi Annan** (2019). Maximizing Ecosystem Services in Jatropha curcas; The Appropriate Planting Method. *World*. https://www.academia.edu/download/102739465/WJAR-7-2-1.pdf
16. **Stephen T Annan** (2018). Assessment of bacteriological quality of sources of drinking water in some selected communities in the Akuapem South District of the Eastern Region, Ghana. *Appl Ecol Environ Sci*. https://www.researchgate.net/profile/Stephen-Annan-2/publication/361865442_153-159_of_Bacteriological_Quality_of_Sources_of_Drinking_Water_in_some_Selected_Communities_in_the_Akuapem_South_District_of_the_Eastern_Region_Ghana/links/69c13a9be8c97366295da635/153-159-of-Bacteriological-Quality-of-Sources-of-Drinking-Water-in-some-Selected-Communities-in-the-Akuapem-South-District-of-the-Eastern-Region-Ghana.pdf
17. **ST Annan** (2018). Reaction of Cowpea genotypes to bacterial blight (Xanthomonas campestris pv. Vignicola) disease in Ghana. *World J. Agric. Res*. https://scholar.google.com/scholar?cluster=14101363769273059 87&hl=en&oi=scholarr
18. **Stephen Twumasi Annan** (2018). Real Estate Development and Land Grabbing in Ghana: A Review of Impact and Policy Responses. *Journal of Food Security*. https://www.academia.edu/download/133950018/JFS-6-3-4.pdf
19. **Stephen T. Annan**, Peter O. Sanful, George Lartey-Young, Rebecca K. Yandam (2018). Spatial and Temporal Patterns of Variation in Environmental Quality of Water and Sediments of Streams in Mined and Unmined Areas with Emphasis on Mercury (Hg) and Arsenic (As). *Journal of Geoscience and Environment Protection*. https://doi.org/10.4236/gep.2018.69010
20. Emmanuel Morgan Attua, **Stephen Twumasi Annan**, Frank K. Nyame (2014). Water Quality Analysis of Rivers Used as Drinking Sources in Artisanal Gold Mining Communities of the Akyem-Abuakwa Area: A Multivariate Statistical Approach. *Ghana Journal of Geography*.

Reports 1

1. **Stephen Twumasi Annan** (2019). Assessment of Hazard Flash Points Predisposing Resident Communities to Disaster Risk in Adentan Municipality in Ghana. *Science and Education Publishing*. https://www.researchgate.net/profile/Stephen-Annan-2/publication/354529514_Assessment_of_Hazard_Flash_Points_Predisposing_Resident_Communities_to_Disaster_Risk_in_Adentan_Municipality_in_Ghana_Assessment_of_Hazard_Flash_Points_Predisposing_Resident_Communities_to_Disaster_Ri/links/69c13768e8c97366295da53c/Assessment-of-Hazard-Flash-Points-Predisposing-Resident-Communities-to-Disaster-Risk-in-Adentan-Municipality-in-Ghana-Assessment-of-Hazard-Flash-Points-Predisposing-Resident-Communities-to-Disaster-Ri.pdf