Dr. Collins Owusu-Fordjour

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RESEARCH

Interests	Science Education · Teaching and Learning
Areas	Education · Molecular Biology · Artificial Intelligence · Health Informatics · Insect Science · Plant Science

RESEARCH SUMMARY

25	403	6	5	6.16	21%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 25 publications listed below, 2018–2026. Field-weighted impact is the mean over the 14 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 14 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2021–present
Department of Integrated Science Education, University of Education Winneba, Winneba, Ghana

EDUCATION AND QUALIFICATIONS

MPhil Sciencec Education
Department of Science Education, University of Education Winneba, Winneba, Ghana

BSc Integrated Science Education
Department of Integrated Science Education, University of Education Winneba, Winneba, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

University Teachers Association of Ghana
Winneba, Ghana

PUBLICATIONS

Journal articles 25

1. Shine Apeadido, **Collins Owusu-Fordjour**, Alhassan Mahama (2026). A Ghanaian pre-SHS feasibility study of AI chatbots as more knowledgeable others for supporting science learning in a resource-constrained context. *Discover Artificial Intelligence*. https://doi.org/10.1007/s44163-026-02113-2
2. 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
3. Clement N. Zuuri, Evans Akwasi Appiah, Joseph N. Suglo, Theordore Seke, Benedicta Dotse Princess, Nana Adoma Frimpomaa, **Collins Owusu-Fordjour**, Mary Asiedu (2025). Factors influencing the management of diabetic foot ulcers among health professionals at the primary health care level in the Bosomtwe district of Ghana. *Muller Journal of Medical Sciences and Research*. https://doi.org/10.4103/

mjmsr.mjmsr_21_25

4. **C Owusu-Fordjour** (2024). A-ingkonge, B.(2023). *Pre-service teachers' knowledge, gender use, and views about generative AI in academic research*. https://scholar.google.com/scholar?cluster=18291332325670326613&hl=en&oi=scholarr

5. **Collins Owusu-Fordjour**, Rosemary Naana Kumi-Manu, Charles Kwesi Koomson (2024). DETERMINANT OF UNDERGRADUATE STUDENTS' INTEREST AND ENGAGEMENTS IN THE STUDY OF GENETICS AT THE UNIVERSITY OF EDUCATION, WINNEBA. *European Journal of Education Studies*. https://doi.org/10.46827/ejes.v11i11.5610

6. Matthew Nyaaba, Patrick Kyeremeh, Eric Kojo Majialuwe, **Collins Owusu-fordjour**, Esther Asebiga, Barnabas A-ingkonge (2024). Generative AI in Academic Research: A Descriptive Study on Awareness, Gender Usage, and Views among Pre-Service Teachers. *Journal of AI*. https://doi.org/10.61969/jai.1400867

7. **Collins Owusu-Fordjour** (2024). Level of Exposure and Effective Usage of Biology Laboratory Facilities by Teachers: Evidence from Selected Senior High Schools In Central Region, Ghana. *International Journal of Academic Research and Reflection*. https://www.idpublications.org/wp-content/uploads/2024/03/Full-Paper-LEVEL-OF-EXPOSURE-AND-EFFECTIVE-USAGE-OF-BIOLOGY-LABORATORY-FACILITIES-BY-TEACHERS.pdf

8. Issah Ibrahim, John K. Eminah, **Collins Owusu-Fordjour**, Stephen Afram Oware, Valantine Baalongbuoro (2023). Effect of teacher motivation and instructional methodologies on student outcomes in integrated science in the upper east region, Ghana. *International Journal for Innovation Education and Research*. https://doi.org/10.31686/ijier.vol11.iss2.4010

9. **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

10. **Collins Owusu-Fordjour**, 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

11. 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

12. CK Koomson, **Collins Owusu-Fordjour** (2022). Impact of In-Service Training Programme on the TPACK of Science Teachers: A Case of New Juaben-North Municipality in the Eastern Region of Ghana. *Educatio: Journal of Education*. https://www.researchgate.net/profile/Charles-Koomson/publication/366673418_Impact_of_In-Service_Training_Programme_on_the_TPACK_of_Science_Teachers_A_Case_of_New_Juaben-North_Municipality_in_the_Eastern_Region_of_Ghana/links/63adf018a03100368a39cf46/Impact-of-In-Service-Training-Programme-on-the-TPACK-of-Science-Teachers-A-Case-of-New-Juaben-North-Municipality-in-the-Eastern-Region-of-Ghana.pdf

13. Koomson CK, **Owusu-Fordjour C**, Darku A (2022). Larvicidal and pupicidal potential of Alchornea cordifolia (Schum. & thonn.) leaf extract against the malaria vector Anopheles gambiae (Diptera: culicidae). *International Journal of Mosquito Research*. https://doi.org/10.22271/23487941.2022.v9.i1a.581

14. **C Owusu-Fordjour**, C Koomson (2022). Pedagogical content knowledge of integrated science teachers and its impact on their instructional practice. *American Journal of Educational Research*. https://scholar.google.com/scholar?cluster=12117911169580573425&hl=en&oi=scholarr

15. Dr. Charles Kwesi Koomson Koomson, **Collins Owusu-Fordjour**, Ambrose Darku (2022). SSusceptibility of Dermestes Maculatus Degeer (Coleoptera: Dermestidea) Larvae Infesting Smoked African Catfish (Clarias Gariepinus) to Alchornea Cordifolia (Schum. & Thonn.) Leaf Powder. *International Journal of Applied*

Biology. https://doi.org/10.20956/ijab.v6i2.21787

16. CK Koomson, **C Owusu-Fordjour** (2022). Susceptibility of Dermestes Maculatus Degeer (Coleoptera: Dermestidea) Larvae Infesting Smoked African Catfish (Clarias Gariepinus) to Alchornea Cordifolia (Schum. & Thonn …. *International Journal of Applied Biology*. http://journal.unhas.ac.id/index.php/ijoab/article/view/21787
17. ERIC GYAMERAH OFORI, CK Koomson, **Collins. Owusu-Fordjour** (2022). Use of Internet Health Information Resources and Information Seeking Behaviour among Undergraduate Student of Univer sity of Education, Winneba. *Journal of Health & Medical Informatics*. https://scholar.google.com/scholar?cluster=13021329734560390436&hl=en&oi=scholarr
18. **Collins Owusu-Fordjour** (2021). ATTITUDE OF TEACHERS AND ITS IMPACT ON THEIR INSTRUCTIONAL PRACTICE. *European Journal of Education Studies*. https://doi.org/10.46827/ejes.v8i8.3845
19. 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
20. **Collins Owusu-Fordjour**, James Awuni Azure, Charles Kwesi Koomson (2021). INTEGRATED SCIENCE TEACHERS' SELF-EFFICACY BELIEFS AND IT'S IMPACT ON THEIR INSTRUCTIONAL PRACTICE. *European Journal of Open Education and E-learning Studies*. https://doi.org/10.46827/ejoe.v6i2.3922
21. C. K. Koomson, **C. Owusu-Fordjour**, M. Afari-Baidoo, C. A. Biritwum (2020). Analysis of the ABO and RH (D) Blood Groups Among Third Year Integrated Science Education Students of the University of Education, Winneba. *Journal of Biology and Life Science*. https://doi.org/10.5296/jbls.v11i2.16853
22. **COLLINS OWUSU-FORDJOUR** (2020). Health Seeking Behaviours of Science Students and their Perception of Health Care Services in the University of Education, Winneba. *International Journal of Public Health Science*. https://www.academia.edu/download/93572415/SR20323194855.pdf
23. **Collins Owusu-Fordjour**, Charles Kwesi Koomson, Danielle Hanson (2020). THE IMPACT OF COVID-19 ON LEARNING - THE PERSPECTIVE OF THE GHANAIAN STUDENT. *Open Access Publishing Group - European Journal of Education Studies*. https://doi.org/10.46827/ejes.v0i0.3000
24. CK Koomson, **C Owusu-Fordjour**, M Afari-Baidoo (2018). Entomocidal properties of christmas bush, Alchornea cordifolia (Schum. & Thonn.) bark powder against the maize weevil, Sitophilus zeamais Motschulsky (Coleoptera: Curculionidae …. *Int. J. Entomol. Res*. https://scholar.google.com/scholar?cluster=6630472912015015110&hl=en&oi=scholarr
25. CK Koomson, **C Owusu-Fordjour** (2018). Misconceptions of senior high school science students on evaporation and water cycle. *European Journal of Research and Reflection in Educational Sciences Vol*. https://www.researchgate.net/profile/Charles-Koomson/publication/328163402_MISCONCEPTIONS_OF_SENIOR_HIGH_SCHOOL_SCIENCE_STUDENTS_ON_EVAPORATION_AND_WATER_CYCLE/links/5bbc7e034585159e8d8f2bba/MISCONCEPTIONS-OF-SENIOR-HIGH-SCHOOL-SCIENCE-STUDENTS-ON-EVAPORATION-AND-WATER-CYCLE.pdf