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RESEARCH

Interests Teaching & Learning of Physics in High School · Teacher PD · STEM/STEAM Edu in ECE · Curr Stds in Sci

Areas Education · Safety Research · Developmental and Educational Psychology · Experimental and Cognitive Psychology · Modeling and Simulation · Applied Mathematics

RESEARCH SUMMARY

24	205	9	8	7.19	30%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 24 publications listed below, 2010–2026. Field-weighted impact is the mean over the 20 works scored for it; 1.00 is the world average for works of the same field, type and year. 6 of the 20 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 21

1. Isaac Buabeng, Bridget Amo-Darko (2026). A policy perspective on integrating STEM education into Ghana's foundational curriculum. *Humanities and Social Sciences Communications*. <https://doi.org/10.1057/s41599-026-07622-0>
2. Isaac Buabeng (2026). Influence of Classroom Climate on Academic Performance: Evidence from Urban Upper Primary Schools in Ghana. *Education and Urban Society*. <https://doi.org/10.1177/00131245261471084>
3. Isaac Buabeng, Bridget Amo-Darko (2025). Curriculum reforms without foundation: The effects of inadequate preparation in curriculum reforms on Ghanaian teachers and the education system. *Curriculum Perspectives*. <https://doi.org/10.1007/s41297-025-00309-7>
4. Burnis Kabay Williams, Isaac Buabeng, Bridget Amo-Darko (2025). Exploring the determinants of primary school students' attitudes toward science: insights from students, teachers and head teachers in the left bank 2B district of Liberia. *Discover Education*. <https://doi.org/10.1007/s44217-025-00750-w>
5. Isaac Buabeng, Bridget Amo-Darko (2024). Bridging the Gap: Enhancing Equitable Access to Quality Education for Marginalized Communities in Ghana. *American Journal of Educational Research*. <https://doi.org/10.12691/education-12-11-3>
6. Akwasi Acheampong, Isaac Buabeng (2024). Indigenous materials, processes and scientific concepts employed in the production of akpeteshie and pito: Their relevance to teaching and learning of science. *International Journal of Sciences: Basic and Applied Research (IJSBAR)*. https://www.academia.edu/download/122270268/Indigenous_materials_processes_and_scientific_concepts.pdf
7. Isaac Buabeng, B Amo-Darko, PK Okyere (2024). Prioritization of secondary education over basic education in Ghana: The gains and losses. *International Journal for Multidisciplinary Research*. https://www.academia.edu/download/122270270/Priiritization_of_secondary_education.pdf
8. Evans Austin Brew, Fiifi Mensah, Isaac Buabeng, Eric Atta Quainoo Jnr., Moses Azerimi Azewara, Michael Afreh Owusu (2022). The Academic Performance of Female Students in Integrated Science in Junior High Schools: Evidence from Aowin Municipality, Western North Region of Ghana. *Asian Journal of Education*

and Social Studies. <https://doi.org/10.9734/ajess/2022/v27i130645>

9. Isaac Buabeng, Forster Danso Ntow, Charles Deodat Otami (2020). Teacher Education in Ghana: Policies and Practices. *Journal of Curriculum and Teaching*. <https://doi.org/10.5430/jct.v9n1p86>
10. Eugene Kofuor Maafo Darteh, Isaac Buabeng, Clara Akuamoah-Boateng (2020). Uptake of intermittent preventive treatment in pregnancy for malaria: further analysis of the 2016 Ghana Malaria Indicator Survey. *Journal of Public Health*. <https://doi.org/10.1007/s10389-020-01206-1>
11. Isaac Buabeng¹, Gifty Yeboah², David Cobbinah³, Michael Kwarayire⁴, Kwadwo Danso⁵, Foster Kwashie Dugble⁶, Damianus Kofi Owusu⁷ (2019). Assessment of Teacher Pedagogical Techniques in Addressing Students' Learning Difficulties in Mathematics. *Zenodo (CERN European Organization for Nuclear Research)*. <https://doi.org/10.5281/zenodo.3402237>
12. Isaac BUABENG, Amoah Barnabas ATINGANE, Isaac AMOAKO (2019). Practices, Challenges and Perceived Influence of Classroom Assessment on Mathematics Instruction. *International Journal of Assessment Tools in Education*. <https://doi.org/10.21449/ijate.616617>
13. Isaac Buabeng, Clara Akuamoah-Boateng (2019). Teaching as Inquiry: Teachers Understanding and its Implication for Teaching and Learning. *World Journal of Education*. <https://doi.org/10.5430/wje.v9n6p45>
14. Isaac Buabeng (2018). Physics classroom interactions: Teaching strategies and practices. *Journal of Research in Science Mathematics and Technology Education*. <https://doi.org/10.31756/jrsmte.134>
15. Isaac Buabeng (2018). Teachers' perception of their initial preparation in teaching senior high school physics. *International Journal of Physics & Chemistry Education*. <https://doi.org/10.51724/ijpce.v10i4.67>
16. Isaac Buabeng, Lindsey Conner, David Winter (2016). Physics Teachers' Views on their Initial Teacher Education. *The Australian journal of teacher education*. <https://doi.org/10.14221/ajte.2016v41n7.3>
17. Isaac Buabeng, Theophilus Aquinas Ossei-Anto, Joseph Ghartey Ampiah (2014). An Investigation into Physics Teaching in Senior High Schools. *World Journal of Education*. <https://doi.org/10.5430/wje.v4n5p40>
18. Isaac Buabeng, Kofi Acheaw Owusu, Forster Danso Ntow (2014). TIMSS 2011 Science Assessment Results: A Review of Ghana's Performance. *Journal of Curriculum and Teaching*. <https://doi.org/10.5430/jct.v3n2p1>
19. Richmond Quarcoo-Nelson, Isaac Buabeng, De-Graft Kwadwo Osafo (2012). Impact of Audio-Visual Aids on Senior High School Students' Achievement in Physics. *International Journal of Physics & Chemistry Education*. <https://doi.org/10.51724/ijpce.v4i1.92>
20. Isaac Buabeng (2012). Making Physics Appealing to Female Students: Perspectives of Female Students and Physics Lecturers. *International Journal of Physics & Chemistry Education*. <https://doi.org/10.51724/ijpce.v4i2.102>
21. Isaac Buabeng, Joseph Ghartey Ampiah, Richmond Quarcoo-Nelson (2012). Senior High School Female Students' Interest in Physics as a Course of Study at the University Level in Ghana. *Gender and Behaviour*.

Book chapters 1

1. Isaac Buabeng, Lindsey Conner, David Winter (2018). Professional Development and Physics Teachers' Ongoing Learning Needs. *InTech eBooks*. <https://doi.org/10.5772/intechopen.78711>

Conference papers 1

1. Isaac Buabeng (2026). Inquiry-Based Science Instruction in Lower Primary Schools: Evaluating Teacher Practices under a Standards-Based Curriculum Framework. <https://doi.org/10.3102/ip.26.2277376>

Reports 1

1. I Buabeng, FD Ntow (2010). Elements of SPSS: A step by step instruction to data analysis using SPSS. *Cape Coast: Hampton Press*. <https://scholar.google.com/scholar?cluster=17288993007906329527&hl=en&oi=scholar>