Isaac Buabeng

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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 Kwarayire 4 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. **İsaac BUABENG**, Amoah Barnabas ATİNGANE, İsaac 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=scholarr