Elizabeth Darko Agyei

Lecturer · Science Education
University of Cape Coast

ORCID 0000-0003-0794-6694 · Google Scholar scholar.google.com/citations?user=_liEV3IAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/ac647a5c-b2f7-4692-956a-f16a3b73c12e

RESEARCH

Interests	Science & Technology Education · Physics Education · Theoretical Physics
Areas	Education · Developmental and Educational Psychology · Information Systems · Sociology and Political Science · Communication · Media Technology

RESEARCH SUMMARY

10	53	5	3	1.53	17%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 10 publications listed below, 2010–2024. Field-weighted impact is the mean over the 6 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 6 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer
Department of Science Education, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

Doctor of Philosophy in Science and Technology Education
University of the Free State, Bloemfontein, South Africa

Postgraduate Diploma in Education
University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 7

1. **Elizabeth Darko Agyei** (2024). Pedagogical Support Structures for Effective Implementation of Simulation-Based Innovation in Science Classrooms: Prospective Teachers' Perspectives. *African Journal of Educational Studies in Mathematics and Sciences*. https://doi.org/10.4314/ajesms.v20i1.4
2. **Elizabeth Darko Agyei**, Loyiso C. Jita, Thuthukile Jita (2024). Technology integration in science classrooms: Empowering student teachers for improved physics teaching with simulations. *Contemporary Mathematics and Science Education*. https://doi.org/10.30935/conmaths/14688
3. **Elizabeth Darko Agyei**, Douglas Darko Agyei (2021). Enhancing Students' Learning of Physics Concepts with Simulation as an Instructional ICT Tool. *European Journal of Interactive Multimedia and Education*. https://doi.org/10.30935/ejimed/11259
4. **Elizabeth Darko Agyei**, Douglas Darko Agyei (2021). Promoting Interactive Teaching with ICT: Features of Intervention for the Realities in the Ghanaian Physics Senior High School Classroom. *International Journal of Interactive Mobile Technologies (iJIM)*. https://doi.org/10.3991/ijim.v15i19.22735
5. **Elizabeth Darko Agyei**, Thuthukile Jita, Loyiso C. Jita (2019). EXAMINING THE EFFECTIVENESS OF SIMULATION-BASED LESSONS IN IMPROVING THE TEACHING OF HIGH SCHOOL PHYSICS: GHANAIAN PRE SERVICE TEACHERS' EXPERIENCES. *Journal of Baltic Science Education*. https://doi.org/10.33225/jbse/19.18.816

6. **ED Agyei** (2019). Feasibility of ICT use in teaching physics at the senior high schools in Ghana. *International Journal of Education, Learning and Development*. https://ir.ucc.edu.gh/server/api/core/bitstreams/76112b31-1f74-433f-b219-29fd2ee1acc4/content

7. Adjei, Mavis, Mensah, Aaron, **Agyei, Elizabeth** (2010). Social Media Shapers in Urban Ghana: A Theoretical Framework Analysis on Communication Patterns. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.18907406

Theses 3

1. **Elizabeth Darko Agyei** (2019). Tracking the development of pre-service teachers' competencies for integrating information and communication technology in the teaching of high school physics in Ghana. *University of the Free State*. https://scholar.ufs.ac.za/items/cf0c0e42-037a-4be1-84f6-c282c780cfa8

2. **Elizabeth Darko Agyei** (2014). Sampling the Conformational Landscape of a Model System for DNA Repair. *Abdul Salam International Centre for Theoretical Physics (ICTP)*.

3. **Elizabeth Darko Agyei** (2013). Influence of Molecular Polarizability on the Active Layer of Organic Photovoltaic Cells: A case study of Poly(3-hexylthiophene). *African University of Science and Technology Education*. http://repository.aust.edu.ng/xmlui/handle/123456789/270