Joseph Ghartey Ampiah

Professor · Science Education
University of Cape Coast

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PROFILE

Professor of Science Education at the University of Cape Coast, where he has taught courses in science education, qualitative research and ethnographic research in science education since 1996. He has been a professional teacher since 1987. His research interests are in science education, teaching and learning of science at primary, junior high and senior high school levels, science classroom environments, in-service education and training. Prof Joseph Ghartey Ampiah has been involved in over 27 national and international projects. He has worked with researchers from Africa, Japan, India, the Netherlands, United Kingdom and the USA. He has led major international projects such as Africa-Asia University Dialogue Research for Basic Education Development Project on Quality of basic education at classroom-level, funded by the Japanese government: Multi-site case study of basic schools in Ghana. Project funded by JICA, CICE-Hiroshima University, UNESCO and United Nations University, Tokyo (2005-2007); Universal Primary Education Policy, Administrative and Financial Systems in sub-Saharan Africa in collaboration with Kobe University, Nagoya University both in Japan, and Universities in Ethiopia, Malawi, Kenya and funded by JICA from 2006-2008; Consortium for Research on Educational Access, Transitions and Equity (CREATE) Project, which was a multi-site study involving India, South Africa, Bangladesh and Ghana (in collaboration with University of Sussex, UK) and funded by DFID from 2006-2009; Africa-Asia University Dialogue Research for Basic Education Development Project Phase II- Finance, Decentralisation Policies for Quality Improvement at School Level, funded by MEXT and CICE-Hiroshima University, Japan (2009-2011)

RESEARCH

Interests	Teaching and Learning · Science Education · In-service Education and Training · Basic education · secondary education · assessment · education policy
Areas	Education · Developmental and Educational Psychology · Physical and Theoretical Chemistry · Safety Research · Social Psychology · Computer Networks and Communications

RESEARCH SUMMARY

56	1,210	20	31	3.59	43%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 56 publications listed below, 2000–2025. 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. 6 of the 14 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer/Professor 2008–present
Science Education, University of Cape Coast, Cape Coast, Ghana

Vice-Chancellor 2016–2020
Office of Vice-Chancellor, University of Cape Coast, Cape Coast, Ghana

Provost and Professor of Science Education 2014–2016
College of Education Studies, University of Cape Coast, Cape Coast, Ghana

Acting Pro-Vice-Chancellor/Professor 2012

Office of the Vice-Chancellor, University of Cape Coast, Cape Coast, Ghana

Dean/Professor of Science Education 2010–2014
Faculty of Education, University of Cape Coast School of Agriculture, Cape Coast, Ghana

Head of Department/Associate Professor of Science Eduction 2008–2010
Science and Mathematics Education, University of Cape Coast, Cape Coast, Ghana

Coordinator/Senior Lecturer 2006–2010
Centre for Research to Improve Quality of Primary Education in Ghana (CRIQPEG), University of Cape Coast, Cape Coast, Ghana

Assistant Lecturer/Lecturer/Senior Lecturer 1996–2007
Institute of Education, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

PhD 1999–2002
Science Education, University of Cape Coast, Cape Coast, Ghana

MPhil 1992–1995
Science Education, University of Cape Coast, Cape Coast, Ghana

Diploma in Education 1982–1987
Science Education, University of Cape Coast, Cape Coast, Ghana

BSC (Hons) 1982–1987
Chemistry, University of Cape Coast, Cape Coast, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

Member 2010–present
Science Education, Ghana Science Association, Cape Coast, Ghana

Member 2009–present
Science Education, British Association for International and Comparative Education, Thurlton, United Kingdom

Member 1991–present
Science Education, Ghana National Association of Teachers, Cape Coast, Ghana

Famous Oversees Scholar 2012
Hunan City University, Yiyang, China

Visiting Research Fellowship 2009–2011
Centre for the Study of International Co-operation in Education, (CICE), Hiroshima University, Hiroshima, Japan

Visiting Research Fellowship 2007–2009
Centre for the Study of International Co-operation in Education, (CICE), Hiroshima University, Hiroshima, Japan

Visiting Research Fellowship 2007–2009
Centre for the Study of International Co-operation in Education, (CICE), Hiroshima University, Hiroshima, Japan

Visiting Professor 2006
Centre for the Study of International Co-operation in Education, (CICE, Hiroshima University, Hiroshima, Japan

Visiting Research Fellow 2005–2006
Sussex School of Education, Sussex Institute, University of Sussex, Brighton, United Kingdom

Visiting Research Fellow 2003
Sussex School of Education, Sussex Institute, University of Sussex, Brighton, United

Kingdom

PUBLICATIONS

Journal articles 47

1. Ebo Amuah, Edmond Kwesi Agormedah, Kwame Akyeampong, **Joseph Ghartey Ampiah** (2025). Students' perceptions of their mathematics classroom learning environment in a newly implemented standard-based curriculum during the COVID-19 pandemic: a cluster analysis. *Cogent Education*. https://doi.org/10.1080/2331186x.2025.2473248
2. Kenneth Adu-Gyamfi, **Joseph Ghartey Ampiah**, Douglas Darko Agyei (2020). Participatory Teaching and Learning Approach: A Framework for Teaching Redox Reactions at High School Level. *International Journal of Education and Practice*. https://doi.org/10.18488/journal.61.2020.81.106.120
3. K Adu-Gyamfi, **Joseph Ghartey Ampiah** (2019). Chemistry students' difficulties in learning oxidation-reduction reactions. *Chemistry: Bulgarian Journal of Science Education*. https://www.ceeol.com/search/article-detail?id=772989
4. Kenneth Adu-Gyamfi, **Joseph Ghartey Ampiah** (2019). Students' Alternative Conceptions Associated With Application of Redox Reactions in Everyday Life. *Asian Education Studies*. https://doi.org/10.20849/aes.v4i1.590
5. GK Aboagye, TA Ossei-Anto, **Joseph Ghartey Ampiah** (2018). Combining inquiry-based hands-on and simulation methods with cooperative learning on students' learning outcomes in electric circuits. *American Journal of Educational Research*. https://ir.ucc.edu.gh/server/api/core/bitstreams/b0f61ad0-0f6e-46a3-b997-127bfa32cbb6/content
6. C Kwaah, **Joseph Ghartey Ampiah** (2018). Implementation of the school performance improvement plan in Ghana: What lessons can be learned? Implementation of the school performance improvement plan in Ghana: What …. *The Oguaa Educator*. https://journal.ucc.edu.gh/index.php/oguaaeducator/article/download/505/314
7. Kenneth Adu-Gyamfi, **Joseph Ghartey Ampiah**, Douglas Darko Agyei (2018). TEACHERS' PROBLEMS OF TEACHING OF OXIDATION-REDUCTION REACTIONS IN HIGH SCHOOLS. *Open Access Publishing Group - European Journal of Education Studies*. https://doi.org/10.46827/ejes.v0i0.2034
8. **Joseph Ghartey Ampiah** (2017). 1 Implementing a language of instruction policy in diverse linguistic contexts. *Culturally Responsive Education: Reflections from the Global South and North*. https://books.google.com/books?hl=en&lr=&id=VT69DgAAQBAJ&oi=fnd&pg=PA2007&dq=info:rsiKDxygA-YJ:scholar.google.com&ots=OQ-oE8gm8A&sig=BuHWAxMecrRCOND0w4SkMtEn6fY
9. Cecilia Boakye, **Joseph Ghartey Ampiah** (2017). Challenges and Solutions: The Experiences of Newly Qualified Science Teachers. *SAGE Open*. https://doi.org/10.1177/2158244017706710
10. Adu-Gyamfi, **Joseph Ghartey Ampiah** (2017). Students' difficulties in IUPAC naming of organic compounds. *Journal of Science and Mathematics Education*. https://www.researchgate.net/profile/Kenneth-Adu-Gyamfi/publication/324797375_Students'_Difficulties_in_IUPAC_Naming_of_Organic_Compounds/links/5ae2edff458515c60f6832e8/Students-Difficulties-in-IUPAC-Naming-of-Organic-Compounds.pdf
11. Kenneth Adu-Gyamfi, **Joseph Ghartey Ampiah** (2016). The junior high school integrated science: the actual teaching process in the perspective of an ethnographer. *European Journal of Science and Mathematics Education*. https://doi.org/10.30935/scimath/9469
12. K Adu-Gyamfi, **JG Ampiah**, DD Agyei (2015). High school chemistry students' alternative conceptions of H2O, OH-, and H+ in balancing redox reactions. *International Journal of Development and Sustainability*. https://www.academia.edu/download/87637478/ijds-v4n6-6.pdf
13. 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
14. **Joseph Ghartey Ampiah** (2014). An Investigation into Shs3 Physics Students Understanding of Data Comparison of Scientific Measurement in Volta Region. *science*. https://ir.ucc.edu.gh/server/api/core/

bitstreams/e5fd3c8f-9e3a-4e9d-9b28-9696b56e809a/content

15. Eliot Kosi Kumassah, **Joseph Ghartey Ampiah**, Eugene Johnson Adjei (2013). An investigation into senior high school (shs3) physics students understanding of data processing of length and time of scientific measurement in the Volta region of Ghana. *International Journal of Research Studies in Educational Technology*. https://doi.org/10.5861/ijrset.2013.387
16. Emmanuel Kofi Gyimah, **Joseph Ghartey Ampiah** (2013). Cypriot Journal of Educational Sciences. *Cypriot Journal of Educational Sciences*. https://www.academia.edu/download/45797757/Adu-Gyamfi_et_al_CJES.pdf
17. **Joseph Ghartey Ampiah**, EK Davis, MK Abreh (2013). Enhancing access to education for out-of-school children in hard to reach communities in Ghana:The ACE experience. *Ghana Journal of Educaation: Issues and Practices*. https://www.researchgate.net/profile/Joseph-Ampiah/publication/291075114_Enhancing_Access_to_Education_for_out-of-school_Children_in_Hard_to_Reach_Communities_in_Ghana_The_ACE_experience/links/569de39708ae16fdf079b70c/Enhancing-Access-to-Education-for-out-of-school-Children-in-Hard-to-Reach-Communities-in-Ghana-The-ACE-experience.pdf
18. **Joseph Ghartey Ampiah**, K Adu-Gyamfi (2013). Senior high school chemistry students' performance in IUPAC nomenclature of organic compounds. *Cypriot Journal of Educational Sciences*. https://www.academia.edu/download/62394162/529-10189-1-PB20200317-91739-16vm0ee.pdf
19. **Joseph Ghartey Ampiah** (2012). Access, Transitions and Equity in Education in Ghana: Researching Practice, Problems and Policy. *Create Pathways To Access Research Monograph No*. https://scholar.google.com/scholar?cluster=8657565205044892909&hl=en&oi=scholarr
20. **Joseph Ghartey Ampiah** (2012). Access, Transitions and Equity in Education in Ghana: Researching Practice, Problems and Policy Kwame Akyeampong Caine Rolleston. *Consortium for Research on Educational Access, Transitions and Equity*. https://www.academia.edu/download/87637843/PTA72.pdf
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*.
22. K Adu-Gyamfi, **Joseph Ghartey Ampiah** (2012). Senior high school students' difficulties in writing structural formulae of organic compounds from IUPAC names. *Journal of Science and Mathematics Education*. https://www.researchgate.net/profile/Kenneth-Adu-Gyamfi/publication/306012555_Senior_High_School_Students'_Difficulties_in_Writing_Structural_Formulae_of_Organic_Compounds_from_IUPAC_Names/links/57aa075808ae0932c96e5597/Senior-High-School-Students-Difficulties-in-Writing-Structural-Formulae-of-Organic-Compounds-from-IUPAC-Names.pdf
23. R Baah, **JG Ampiah** (2012). Senior high school students' understanding and difficulties with chemical equations. *International Journal of Scientific Research in Education*. https://www.ijsre.com.ng/assets/vol.%2C-5_3_-baah---ampiah.pdf
24. Deodat Charles Otami, **Joseph Ghartey Ampiah**, Christian Anthony-Krueger (2011). Factors influencing elective science students' perception of their Biology classroom environment in low and high academic achieving schools in the Central Region of Ghana. *International Journal of Research Studies in Education*. https://doi.org/10.5861/ijrse.2012.v1i1.3
25. **Joseph Ghartey Ampiah** (2011). Quality basic education in Ghana: Prescription, practice and problems. *CICE 叢書4 Africa-Asia University Dialogue for Educational Development Report of the International Experience Sharing Seminar (1): Effort toward Improving the Quality of Education*. https://hiroshima.repo.nii.ac.jp/record/2012620/files/CICEseries_4-1_27.pdf
26. **JG Ampiah** (2010). Quality basic education in Ghana: Prescription, praxis and problems. *Conference presentation. Experience Sharing Seminar, Accra, Ghana*. https://scholar.google.com/scholar?cluster=13897435257357096269&hl=en&oi=scholarr
27. **Joseph Ghartey Ampiah** (2009). A comparative analysis of universal primary education policy in Ghana, Kenya, Malawi, and Uganda. *国際教育協力論集*. https://hiroshima.repo.nii.ac.jp/records/2021469
28. **Joseph Ghartey Ampiah**, Christine Adu-Yeboah (2009). Mapping the incidence of school dropouts: a case study of communities in Northern Ghana. *Comparative Education*. https://doi.org/

10.1080/03050060902920625

29. **Joseph Ghartey Ampiah** (2009). Who Is the True Bearer?: The Visible and Hidden Private Cost of Senior Secondary Education and Equity in Ghana. *Africa Today*. https://muse.jhu.edu/pub/3/article/262085/summary

30. **Joseph Ghartey Ampiah**, Ernest Kofi Davis (2008). An investigation of provision of quality basic education in Ghana: A case study of selected schools in the Central Region. *Journal of International Cooperation, 11 (3) 19*. https://hiroshima.repo.nii.ac.jp/records/2021455

31. DK Mereku, **J Ghartey-Ampiah** (2008). TIMSS 2007 Ghana Report: Findings from IEA's trends in international mathematics and science study at the eighth grade. *Accra: Ministry of Education*. https://scholar.google.com/scholar?cluster=9003357487992587090&hl=en&oi=scholarr

32. **Joseph Ghartey Ampiah** (2008). The state of science practical work in some Ghanaian senior secondary schools. *Journal of Educational Development and Practice*. https://journal.ucc.edu.gh/index.php/jed-p/article/download/941/494

33. **J Ghartey-Ampiah** (2008). Trends in International Mathematics and Science Study. *Legon-Accra: Adwinsa*. https://scholar.google.com/scholar?cluster=7303205713165866454&hl=en&oi=scholarr

34. Kwame Akyeampong, John Pryor, **Joseph Ghartey Ampiah** (2006). A vision of successful schooling: Ghanaian teachers' understandings of learning, teaching and assessment. *Comparative Education*. https://doi.org/10.1080/03050060600627936

35. **J Ghartey-Ampiah**, JK Tufuor, VPY Gadzekpo (2006). Teachers' views on the role of science practical activities in the teaching of science in Ghanaian senior secondary schools. *African Journal of Educational Studies in Mathematics and Sciences*. https://doi.org/10.4314/ajesms.v2i2.38590

36. **J Ghartey-Ampiah** (2006). Towards Scientific Literacy for Basic School Pupils: Which Profile Dimensions are Emphasised in the Ghanaian Basic Science Curricula? *African Journal of Educational Studies in Mathematics and Sciences*. https://www.ajol.info/index.php/ajesms/article/view/38619/0

37. **Joseph Ghartey Ampiah** (2005). Students' Psychosocial Perception of Science Laboratory Environments in Ghanaian Senior Secondary Schools. *IFE PsychologIA*. https://doi.org/10.4314/ifep.v13i1.23666

38. **Joseph Ghartey Ampiah** (2004). An Investigation into Science Practical Work in Senior Secondary Schools: Atiitudes and Perceptions. *Historical Review*. https://ir.ucc.edu.gh/server/api/core/bitstreams/60aefb0c-6255-4cd6-83ef-a917318e352b/content

39. **J Ampiah** (2004). Science, mathematics and ICT (SMICT), secondary education in sub-Saharan Africa-country profile Ghana. *Centre for International Cooperation (CIS), Vrije Universiteit Amsterdam*. https://scholar.google.com/scholar?cluster=2094400516801826653&hl=en&oi=scholarr

40. **J Ghartey-Ampiah**, VPY Gadzekpo (2004). Teachers' views on the role of science practical activities in the teaching of science in Ghanaian senior secondary schools. *African Journal of Educational Studies in Mathematics and Sciences*.

41. **Joseph G Ampiah** (2003). Concept Mapping as a Teaching and Learning Technique with Senior Secondary School Science Students in Ghana: Concept Mapping as a Teaching and Learning Technique with Senior …. *Journal of Educational Development and Practice*. https://journal.ucc.edu.gh/index.php/jed-p/article/download/513/322

42. **JG Ampiah** (2003). Teachers' guide to numeracy assessment instrument. *Nottingham: University of Nottingham*. https://scholar.google.com/scholar?cluster=6509422097322836828&hl=en&oi=scholarr

43. **J Ampiah** (2003). Understandings of education in an African village: The impact of ICTs. *Education series research report*. https://scholar.google.com/scholar?cluster=13191631528058093330&hl=en&oi=scholarr

44. **JG Ampiah** (2002). Attitude of junior secondary school boys and girls towards science. *Institute of Education, University of Cape Coast (Unpublished Paper)*. https://scholar.google.com/scholar?cluster=2263656971852911325&hl=en&oi=scholarr

45. **JG Ampiah** (2002). Exploring junior secondary school boys and girls' attitude towards science: time for policy change. *Journal of Educational Management*. https://www.africabib.org/rec.php?RID=Q00039008

46. **JG Ampiah** (2001). Students' perception of topics in senior secondary school chemistry syllabus. *Journal of Educational development*. https://scholar.google.com/scholar?cluster=27859718748910735 2&hl=en&oi=scholarr

47. **JG Ampiah** (2000). Partnership and participation in whole school development in Ghana. *Education through partnership*. https://scholar.google.com/scholar?cluster=9927341806095296245&hl=en&oi=scholarr

Book chapters 5

1. **Joseph Ghartey Ampiah**, CY Kwaah, C Adu-Yeboah (2017). Implementing a language of instruction policy in diverse linguistic contexts in Ghana. *Culturally Responsive Education*. https://doi.org/10.4324/9781315201900-2

2. **Joseph Ghartey Ampiah** (2015). UPE policy and quality of education in Ghana. *Comparative Analysis on Universal Education Policy and Practice in Sub-Saharan Africa: The Cases of Ghana, Kenya, Malawi and Uganda*. https://books.google.com/books?hl=en&lr=&id=lwX1DwAAQBAJ&oi=fnd&pg=PA111&dq=info:Y6Z1bZtEagAJ:scholar.google.com&ots=Ouc5ljRVd9&sig=xZL6aI1RpJX9cGFGye8OGyWpZm0

3. **Joseph Ghartey Ampiah** (2015). UPE policy assessment in Ghana. *Comparative Analysis on Universal Education Policy and Practice in Sub-Saharan Africa: The Cases of Ghana, Kenya, Malawi and Uganda*. https://books.google.com/books?hl=en&lr=&id=lwX1DwAAQBAJ&oi=fnd&pg=PA13&dq=info:wUxRwmJeSh0J:scholar.google.com&ots=Ouc5ljRVdb&sig=oyE7w1zu9U0bUw36O3LBtoIHnc8

4. **Joseph Ghartey Ampiah** (2009). UPE policy implementation in Ghana: Challenges and policy implications. *Universal Primary Education Policy in sub-Saharan Africa: A Comparative Analysis of Ghana, Kenya, Malawi, and Uganda and Policy Recommendations*. https://scholar.google.com/scholar?cluster=3172892182393403306&hl=en&oi=scholarr

5. **Joseph Ghartey Ampiah** (2005). Listening to voices in the village: collaborating through data chains. *Decolonizing Research in Cross-Cultural Contexts: Critical personal narratives*. https://books.google.com/books?hl=en&lr=&id=l3jl-ObBxHQC&oi=fnd&pg=PA159&dq=info:UsNmyCw6HuIJ:scholar.google.com&ots=jjWvjPx5Qj&sig=zPLG2suAYYSmf4aGR_86xgZ7Vj8

Reports 4

1. **Joseph Ghartey Ampiah** (2020). Selected Speeches & Memorable Pictures of Prof. Joseph Ghartey Ampiah, Vice-Chancellor of University of Cape Coast, 2016-2020. *Documentation & Information Section*. https://scholar.google.com/scholar?cluster=17713360023013130949&hl=en&oi=scholarr

2. **Joseph Ghartey Ampiah**, C Adu-Yeboah (2011). Understanding the social and economic lives of never-enrolled children: a case study of communities in Northern and Southern Ghana. *Consortium for Research on Educational Access*. http://www.create-rpc.org/pdf_documents/PTA66.pdf

3. **Joseph Ghartey Ampiah** (2010). Educational Access in Ghana Country Research Summary. *The University of Cape Coast; University of Sussex; CREATE*. https://discovery.ucl.ac.uk/id/eprint/10092389/

4. **Joseph Ampiah** (2000). Learning to teach in Ghana: An evaluation of curriculum delivery. *MUSTER*. https://scholar.google.com/scholar?cluster=4926028478236150359&hl=en&oi=scholarr