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RESEARCH

Areas: Education · Applied Mathematics · Experimental and Cognitive Psychology · Statistics and Probability · Developmental and Educational Psychology · Artificial Intelligence

RESEARCH SUMMARY

22	212	6	6	1.48	23%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 22 publications listed below, 2015–2026. Field-weighted impact is the mean over the 22 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 22 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Faculty 1997–present
Mathematics Education, University of Education Winneba Faculty of Science Education, Winneba, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2004–2007
Mathematics and Statistics, University of Cape Coast School of Physical Sciences, Cape Coast, Ghana

PUBLICATIONS

Journal articles 22

1. John Takyi-Bondzie, **Samuel Asiedu-Addo**, Peter Akayuure, Gloria Armah (2026). Mathematics Teachers' Perceptions and Classroom Implementation of STEM–Computational Thinking Following Professional Development in Ghana. *Asian Journal of Education and Social Studies*. https://doi.org/10.9734/ajess/2026/v52i103354
2. Fred Asante-Mensa, **Samuel Kwesi Asiedu- Addo**, Samuel Owusu Ansah, Isaac Ansah, Benedict Celestine Agbata, William Obeng-Denteh (2025). Perceptions of Inquiry-Based Mathematics Instruction in Technical and Vocational Schools in Ghana. *Journal of Mathematics Education*. https://doi.org/10.26711/007577152790193
3. Fred Asante-Mensa, **Samuel Kwesi Asiedu-Addo**, William Obeng-Denteh, Gloria Armah (2024). EFFECTIVENESS OF THE INQUIRY-BASED TEACHING APPROACH ON TECHNICAL AND VOCATIONAL STUDENTS' MATHEMATICS ACHIEVEMENT IN GHANA. *International Multidisciplinary Journal of Research and Education (IMJRE)*. https://doi.org/10.64712/imjre.v2i1.293
4. Seth Amoako Atta, **Samuel Asiedu Addo**, Emmanuel Asemani (2023). IMPACT OF THE USE OF THE PROBLEM-SOLVING APPROACH IN LINKING CLASSROOM MATHEMATICS TO REAL-LIFE ACTIVITIES ON LEARNERS' PERFORMANCE. *International Multidisciplinary Journal of Research and Education (IMJRE)*. https://doi.org/10.64712/imjre.v1i1.139
5. John Takyi-Bondzie, **Samuel Asiedu Addo**, Jemima Saah (2023). INVESTIGATING THE CHALLENGES TO SUCCESSFUL IMPLEMENTATION OF STEM INTEGRATION EDUCATION IN GHANA. *International*

Multidisciplinary Journal of Research and Education (IMJRE). https://doi.org/10.64712/imjre.v1i1.140

6. Kofi Ashiboe-Mensah, **Samuel Asiedu Addo** (2023). TEACHER-TRAINEES' BACKGROUND IN TEACHING AND LEARNING OF MATHEMATICS. *International Multidisciplinary Journal of Research and Education (IMJRE)*. https://doi.org/10.64712/imjre.v1i1.142
7. Yarhands Dissou Arthur, Courage Simon Kofi Dogbe, **Samuel Kwesi Asiedu-Addo** (2022). Enhancing Performance in Mathematics Through Motivation, Peer Assisted Learning, And Teaching Quality: The Mediating Role of Student Interest. *Eurasia Journal of Mathematics Science and Technology Education*. https://doi.org/10.29333/ejmste/11509
8. John Takyi-Bondzie, **Samuel Kwesi Asiedu-Addo**, Jemima Saah (2022). Investigating Factors to be Considered for Successful STEM Integration Education in Ghana. *International Journal of Mathematics and Statistics Studies*. https://doi.org/10.37745/ijmss.13/vol10n2pp4051
9. Yarhands Dissou Arthur, Courage Simon Kofi Dogbe, **Samuel Kwesi Asiedu-Addo** (2021). Modeling students' mathematics achievement and performance through teaching quality: SERVQUAL perspective. *Journal of Applied Research in Higher Education*. https://doi.org/10.1108/jarhe-06-2021-0243
10. Hamidu Ibrahim, **Samuel Asiedu-Addo** (2019). Effect of problem-based learning on Colleges of Education students' achievement in probability and attitude towards solving probability related problems. *African Journal of Educational Studies in Mathematics and Sciences*. https://doi.org/10.4314/ajesms.v15i2.13
11. Yarhands Arthur, **Samuel Asiedu-Addo**, Charles Assuah (2017). Effect of Instructor Quality and Availability on Ghanaian Students' Interest in Mathematics Using Regression and Principal Component Analysis. *Advances in Research*. https://doi.org/10.9734/air/2017/34570
12. Yarhands Dissou Arthur, **Samuel Asiedu-Addo**, Simon Kojo Appiah (2017). Gender Stereotype and Motivation in Learning Statistics among Tertiary Students in Ghana. *International Electronic Journal of Mathematics Education*. https://doi.org/10.29333/iejme/636
13. Yarhands Arthur, **Samuel Asiedu–Addo**, Charles Assuah (2017). Students' Mathematics Interest Development in Ghana- the Role of Parental Involvement and Agents of Student Motivation. *Current Journal of Applied Science and Technology*. https://doi.org/10.9734/cjast/2017/34571
14. Yarhands Arthur, **Samuel Asiedu-Addo**, Charles Assuah (2017). Students' Perception and Its Impact on Ghanaian Students' Interest in Mathematics: Multivariate Statistical Analytical Approach. *Asian Research Journal of Mathematics*. https://doi.org/10.9734/arjom/2017/33023
15. Yarhands Arthur, **Samuel Asiedu-Addo**, Charles Assuah (2017). Teacher-Student Variables as Predictor of Students' Interest in Mathematics: The Use of Stepwise Multiple Linear Regression Analysis. *Asian Research Journal of Mathematics*. https://doi.org/10.9734/arjom/2017/33544
16. **Samuel Asiedu-Addo**, Charles K. Assuah, Yarhands Dissou Arthur (2017). Triangular law of students' Mathematics Interest in Ghana: A Model with motivation and perception as predictor. *International Electronic Journal of Mathematics Education*. https://doi.org/10.29333/iejme/630
17. **Samuel Asiedu-Addo**, Charles Assuah, Yarhands Arthur (2016). Compulsion in Studying Mathematics and Career Influence by Mathematics on Student Interest in Mathematics. *Asian Research Journal of Arts & Social Sciences*. https://doi.org/10.9734/arjass/2016/27543
18. Ebenezer Bonyah, Kingsley Badu, **Samuel Kwesi Asiedu-Addo** (2016). Optimal control application to an Ebola model. *Asian Pacific Journal of Tropical Biomedicine*. https://doi.org/10.1016/j.apjtb.2016.01.012
19. Charles Assuah, Wasila Yakubu, Yarhands Dissou Arthur, **Samuel Asiedu–Addo** (2016). Primary school mathematics teachers' ideas, beliefs, and practices of constructivist instructional strategies. *African Journal of Educational Studies in Mathematics and Sciences*.
20. Yarhands Arthur, **Samuel Addo**, Emmanuel Harris (2015). Statistical Software Packages (SSPs) Integration in Teaching and Learning of Statistics in Ghanaian Tertiary Institution. *Journal of Scientific Research and Reports*. https://doi.org/10.9734/jsrr/2015/17470
21. Yarhands Arthur, **Samuel Addo**, Jonathan Annan (2015). Student Mathematics Interest in Ghana: The Role of Parent Interest, Gender, Basic School Attended and Fear of Basic School Mathematics Teacher. *Advances in Research*. https://doi.org/10.9734/air/2015/19889

22. Elizabeth Adu, Charles Assuah, **Samuel Asiedu–Addo** (2015). Students' errors in solving linear equation word problems: Case study of a Ghanaian senior high school. *African Journal of Educational Studies in Mathematics and Sciences*.