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RESEARCH

Interests	ICT Education · Mobile learning · Course Management Systems · Nonlinear Fiber Optics · PDEs and ODEs
Areas	Education · Information Systems · Statistical and Nonlinear Physics · Gender Studies · Modeling and Simulation · Computer Science Applications

RESEARCH SUMMARY

30	322	10	10	2.72	38%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 30 publications listed below, 2012–2026. Field-weighted impact is the mean over the 13 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 13 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 26

1. Blessing Momoh, **Wilson Osafo Apeanti** (2026). Critical Factors That Shape the Pedagogical Integration of ICT in Technology-Rich Senior High Schools. *International Journal of Technology in Education and Science*. https://doi.org/10.46328/ijtes.5559
2. Mujahid Iqbal, David Yaro, **Wilson Osafo Apeanti**, Saviour Worlanyo Akuamoah, Abeer Aljohani, Soumaya Gouadria, Baboucarr Ceesay (2026). Optical soliton solutions of the nonlinear coupled Konno–Oono system by using the new analytical approach and modulation instability analysis. *Scientific Reports*. https://doi.org/10.1038/s41598-026-51821-3
3. **Wilson Osafo Apeanti**, David Yaro, Saviour Worlanyo Akuamoah (2025). Solitary Wave Solutions and Modulation Instability of First- and Second-Order Benjamin–Ono Fluid Dynamics Models With Applications. *Journal of Applied Mathematics*. https://doi.org/10.1155/jama/8610610
4. **Wilson Osafo Apeanti**, Solomon Ofori Gyane Jnr (2025). Teacher Educators' Acceptance and Pedagogical Use of ICT: The Role of Social Influence, System Characteristics, and Individual Differences. *International journal of Technology in Education Science*. https://doi.org/10.46328/ijoftes.5721
5. **Wilson Osafo Apeanti**, M Odei-Addo (2024). Technology Adaption in Distance Teacher Training: The Impact of Demographic Factors on Learners' Technology Adaption. *International Journal of Research in Education and Science*. https://eric.ed.gov/?id=EJ1452961
6. Stephen Opoku Oppong, Benjamin Ghansah, Evans Baidoo, **Wilson Osafo Apeanti**, Daniel Danso Essel (2022). Experimental Study of Swarm Migration Algorithms on Stochastic and Global Optimisation Problem. *International Journal of Distributed Artificial Intelligence*. https://doi.org/10.4018/ijdai.296389
7. Hong Zhang, **Wilson Osafo Apeanti**, Saviour Worlanyo Akuamoah, David Yaro, Paul Georgescu (2021). A mathematical view towards improving undergraduate student performance and mitigating dropout risks. *Nonlinear Analysis Modelling and Control*. https://doi.org/10.15388/namc.2021.26.24120
8. **WO Apeanti**, D Essel (2021). Learning computer programming using project-based collaborative learning: Students' experiences, challenges and outcomes. *International Journal for Innovation Education and Research*. https://www.academia.edu/download/68520895/PB_3278.pdf

9. Hong Zhang, **Wilson Osafo Apeanti**, Paul Georgescu, Prince Harvim, Dianchen Lu, Tan Li, Bing Zhang (2021). Sustainable Teacher Training via Distance Education: The Effect of Study Centers, Gender and Economic Demographics on Academic Performance. *Sustainability*. https://doi.org/10.3390/su13147965
10. Hong Zhang, Saviour Worlanyo Akuamoah, **Wilson Osafo Apeanti**, Prince Harvim, David Yaro, Paul Georgescu (2021). The Stability Analysis of a Double-X Queuing Network Occurring in the Banking Sector. *Mathematics*. https://doi.org/10.3390/math9161957
11. **Wilson Osafo Apeanti** (2020). Impact of social influence in English proficiency and performance in English examinations of mathematics students from a Sino-US undergraduate education program. *Nonlinear Analysis: Modelling and Control*. https://www.zurnalai.vu.lt/nonlinear-analysis/article/view/20556
12. **Wilson Osafo Apeanti** (2019). Analysis and optimal control of fractional-order transmission of a respiratory epidemic model. *International journal of applied and computational mathematics*. https://doi.org/10.1007/s40819-019-0699-7
13. **Wilson Osafo Apeanti**, Aly R. Seadawy, Dianchen Lu (2019). Complex optical solutions and modulation instability of hyperbolic Schrödinger dynamical equation. *Results in Physics*. https://doi.org/10.1016/j.rinp.2019.02.014
14. **Wilson Osafo Apeanti** (2019). Dispersive traveling wave solutions of nonlinear optical wave dynamical models. *Modern Physics Letters B*. https://doi.org/10.1142/s0217984919501203
15. David Yaro, Aly R. Seadawy, Dianchen Lu, **Wilson Osafo Apeanti**, Saviour Worlanyo Akuamoah (2019). Dispersive wave solutions of the nonlinear fractional Zakhorov-Kuznetsov-Benjamin-Bona-Mahony equation and fractional symmetric regularized long wave equation. *Results in Physics*. https://doi.org/10.1016/j.rinp.2019.02.005
16. **Wilson Osafo Apeanti** (2019). New Exact Solutions and Modulation Instability for the Nonlinear (2+ 1)-Dimensional Davey-Stewartson System of Equation. *Advances in Mathematical Physics*. https://doi.org/10.1155/2019/3879259
17. **WO Apeanti** (2019). Social influences and dropout risks related to college students' academic performance: Mathematical insights. *Int. J. Nonlin. Sci*. https://scholar.google.com/scholar?cluster=15173884705426662438&hl=en&oi=scholarr
18. **Wilson Osafo Apeanti** (2019). Traveling wave solutions for complex nonlinear space–time fractional order (2+ 1)-dimensional Maccari dynamical system and Schrödinger equation with dual power law nonlinearity …. *SN Applied Sciences*. https://doi.org/10.1007/s42452-019-0537-x
19. **Wilson Osafo Apeanti** (2018). A double-server double-class queue with constant retrial policy in reducing delay in healthcare delivery. *International Journal of Nonlinear Science*. https://atuspace.atu.edu.gh/handle/123456789/2653
20. **WO Apeanti** (2016). Educational reforms in Ghana: What are the views of teachers and parents. *International Journal for Research in Mathematics and Mathematical Sciences*. https://scholar.google.com/scholar?cluster=15971790762571688013&hl=en&oi=scholarr
21. **Wilson Osafo Apeanti** (2015). Contributing Factors to Pre-service Mathematics Teachers' e-readiness for ICT Integration. *International Journal of Research in Education and Science*. https://doi.org/10.21890/ijres.29797
22. **W Apeanti** (2014). Prospective Mathematics teachers' perception about ICT integration in mathematics instruction in Ghana. *Global Educational Research Journal*. https://scholar.google.com/scholar?cluster=5902214260921395759&hl=en&oi=scholarr
23. **WO Apeanti**, Essel Daniel Danso (2014). Students' use of social media in higher education in Ghana. *Innovative Journal*. https://www.academia.edu/download/34920087/IEEE_Format_-_Students_Use_of_Social_Media.pdf
24. Issifu Yidana, **OA Wilson** (2013). Using the Moodle learning management system for teaching and learning at the University of Education, Winneba. *Unlocking the potential of ICT in higher education: Case studies of educational technology initiatives at African universities*. https://scholar.google.com/scholar?cluster=11257128410616106488&hl=en&oi=scholarr
25. J Apawu, Issifu Yidana, **WO Apeanti** (2012). ICT Integration Level of Mathematics Tutors of Colleges of

Education in Ghana. *International Journal of Pedagogy, Policy and ICT in Education*. https://www.ajol.info/index.php/ijp/article/view/81264

26. PH Armah, **W Osafo-Apeanti** (2012). The effect of graphing software on students' conceptual understanding of quadratic functions. *African Journal of Educational Studies in Mathematics and Sciences*. https://www.ajol.info/index.php/ajesms/article/view/93847

Book chapters 1

1. Mohammed Muniru Sa-ad, **Wilson Osafo-Apeanti**, Obeng Owusu-Boateng, Salifu Anas Seidu, Mohammed Majeed, Ben Bright-Benuwa (2025). Automated administrative tasks in education. https://doi.org/10.70593/978-93-49307-53-7_3

Conference papers 1

1. Edward Peter Greenwood White, Jussi Okkonen, Reeta Oksa, Benjamin Ghansah, Christopher Yarkwah, Ephrem Kwaa-Aidoo, Issifu Yidana, **Wilson Osafo Apeanti**, Rosemary Twum (2023). Approaches to leveraging digital higher education in Africa. *Proceedings of the 6th ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies*. https://doi.org/10.1145/3588001.3609380

Reports 1

1. **WO Apeanti**, DD Essel (2015). Introduction to ICT. *Kumasi: Fresh Publications*. https://scholar.google.com/scholar?cluster=5793531692802333178&hl=en&oi=scholarr

Theses 1

1. **WILSON OSAFO APEANTI** (2019). Traveling Wave Solutions and Stability Analysis of Nonlinear Partial Differential Equations. *江苏大学*. https://scholar.google.com/scholar?cluster=6670697780201142190&hl=en&oi=scholarr