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RESEARCH

Areas: Global and Planetary Change · Pediatrics, Perinatology and Child Health · Environmental Engineering · Public Health, Environmental and Occupational Health · General Health Professions · General Economics, Econometrics and Finance

RESEARCH SUMMARY

21	225	7	4	0.97	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 21 publications listed below, 2012–2026. Field-weighted impact is the mean over the 21 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 21 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 21

1. Francis Ayiah-Mensah, **Emmanuel Harris**, Michael Asare Bediako, Vivian Nimoh, Rebecca N. Arhin (2026). A Multilevel Beta Mixed-effects Analysis of the Non-linear Evolution of HIV Prevalence in Females Aged 15-24 Years. *International STD Research & Reviews*. https://doi.org/10.9734/isrr/2026/v15i2201
2. Ernest Biney, Gladys Ama Quartey, **Emmanuel Harris**, Veronica Sakyi-Adjei (2026). A geospatial and statistical assessment of surface temperature response to land cover change and spatial drivers in Sekondi-Takoradi, Ghana. *Discover Environment*. https://doi.org/10.1007/s44274-025-00501-6
3. Francis Ayiah-Mensah, Senyefia Bosson-Amedenu, **Emmanuel Harris**, Emmanuel Mensah Baah, Asiedu Kokuro (2026). Health Infrastructure Inequality in Sub-Saharan Africa: A Harmonised and Spatially Validated Facility Approach. *Asian Journal of Probability and Statistics*. https://doi.org/10.9734/ajpas/2026/v28i6906
4. Francis Ayiah-Mensah, **Emmanuel Harris**, Michael Asare Bediako, Vivian Nimoh, Emmanuel Ayitey (2026). Modelling Bounded Panel Global Food Insecurity Indicators with Correlated Random Effects. *Archives of Current Research International*. https://doi.org/10.9734/acri/2026/v26i41826
5. Francis Ayiah-Mensah, **Emmanuel Harris**, Mohammed Frempong, Harry Darko Bonsu, Emmanuel Benson (2026). Modelling Malaria Mortality in Ghana Using Distributed Lag Nonlinear Frameworks. *Journal of Advances in Medical and Pharmaceutical Sciences*. https://doi.org/10.9734/jamps/2026/v28i7876
6. Francis Ayiah-Mensah, **Emmanuel Harris**, Emmanuel Ayitey, Esi Ahema Aboagye, Michael Kwabena Asirifi (2026). Trend Analysis of Malaria Mortality in Ghana from 1980–2023: A Flexible Statistical Modelling Approach. *International Journal of TROPICAL DISEASE & Health*. https://doi.org/10.9734/ijtdh/2026/v47i21723
7. Ernest Biney, **Emmanuel Harris**, Gladys Ama Quartey, Bright Karim-Abdallah, Albert Elikplim Agbenorhevi (2026). Urban growth and ecosystem service value decline in a coastal Ghanaian metropolis from 1991 to 2023. *Discover Sustainability*. https://doi.org/10.1007/s43621-026-03058-3
8. B. Karim-Abdallah, M. Ayitey Junior, P. Appiahene, **E. Harris**, D. K. Binful (2025). Application of Machine Learning Algorithms in Predicting Academic Performance of Students in Higher Education Institutes (HEIs): A Systematic Review and Bibliographic Analysis. *African Journal Of Applied Research*. https://doi.org/10.26437/ajar.v11i1.869

9. Francis Ayiah-Mensah, Emmanuel Mensah Baah, **Emmanuel Harris**, Samuel Kwame Okai (2025). Machine-Learning Implications on Global Antenatal Care Improvement and Equity Disparities: The Wealth Effect, Regional Dynamics and Model-Based. https://doi.org/10.9734/ajpcb/2025/v8i1187

10. Emmanuel deGraft Johnson Owusu-Ansah, Richard Kodzo Avuglah, **Emmanuel Harris**, Adwubi Yaa Kyere, Bernard deGraft Amankwaa (2025). Optimizing renewable energy integration: statistical models for grid stability and economic viability. *Academia green energy.*. https://doi.org/10.20935/acadenergy7430

11. Ernest Biney, Eric Kwabena Forkuo, Michael Poku-Boansi, Kwame O. Hackman, **Emmanuel Harris**, Yaw Mensah Asare, Daniel Buston Yankey, Ernestina Annan, Albert Elikplim Agbenorhevi (2024). Analyzing the spatio-temporal pattern of urban growth and its influence on urban heat islands in the Sekondi-Takoradi metropolis, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02366

12. Maxwell Afetor, **Emmanuel Harris**, Joyce B Der, Clement T Narh (2023). Using routine healthcare data to determine the factors associated with hospital length of stay for hypertensive inpatients in Ghana, 2012–2017. *BMJ Open*. https://doi.org/10.1136/bmjopen-2022-066457

13. Ernest Biney, Nathaniel Biney, Isaac Dadzie, **Emmanuel Harris**, Gladys Ama Quartey, Yaw Mensah Asare, Enoch Bessah, Eric Kwabena Forkuo (2022). Impact of mining on vegetation cover: A case study of Prestea Huni-Valley municipality. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01387

14. Emmanuel Daata kullo, Eric Kwabena Forkuo, Ernest Biney, **Emmanuel Harris**, Jonathan Arthur Quaye-Ballard (2021). The impact of land use and land cover changes on socioeconomic factors and livelihood in the Atwima Nwabiagya district of the Ashanti region, Ghana. *Environmental Challenges*. https://doi.org/10.1016/j.envc.2021.100226

15. Alfred Awotwi, Geophrey Kwame Anornu, Jonathan Arthur Quaye-Ballard, Thompson Annor, Eric Kwabena Forkuo, **Emmanuel Harris**, Jacob Agyekum, John Lawer Terlabie (2019). Water balance responses to land-use/land-cover changes in the Pra River Basin of Ghana, 1986–2025. *CATENA*. https://doi.org/10.1016/j.catena.2019.104129

16. Alfred Awotwi, Michael Asare Bediako, **Emmanuel Harris**, Eric Kwabena Forkuo (2016). Water Quality Changes Associated with Cassava Production: Case Study of White Volta Basin. *Heliyon*. https://doi.org/10.1016/j.heliyon.2016.e00149

17. 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

18. Yao Elikem Ayekple, **Emmanuel Harris**, Nana Kena Frempong, Joshua Amevialor (2015). Time Series Analysis of the Exchange Rate of the Ghanaian Cedi to the American Dollar. *Journal of Mathematics Research*. https://doi.org/10.5539/jmr.v7n3p46

19. Stella B. Acquah, Richard K. Avuglah, **Emmanuel Harris** (2014). Time Series Behavior of the Volume of Wood Products Export in Ghana. *International Journal of Statistics and Probability*. https://doi.org/10.5539/ijsp.v3n4p12

20. **Emmanuel Harris**, A. R. Abdul-Aziz, Richard Kodzo Avuglah (2012). Modeling annual Coffee production in Ghana using ARIMA time series Model. *RePEc: Research Papers in Economics*. https://doi.org/10.18533/ijbsr.v2i7.129

21. A. R. Abdul-Aziz, **Emmanuel Harris**, L. Munyakazi (2012). Risk Factors In Malaria Mortality Among Children In Northern Ghana: A Case Study At The Tamale Teaching Hospital. *RePEc: Research Papers in Economics*. https://doi.org/10.18533/ijbsr.v2i5.225