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RESEARCH

Interests	Biostatistics
Areas	Food Science · Immunology · Animal Science and Zoology · General Health Professions · Geometry and Topology · Plant Science

RESEARCH SUMMARY

22	184	8	7	1.56	19%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 22 publications listed below, 2000–2025. Field-weighted impact is the mean over the 16 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 16 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 22

1. Rachid Muleia, Shelsea Luís Damião, Áuria Ribeiro Banze, Cynthia Semá Baltazar, **Isaac Akpor Adjei** (2025). Factors associated with early sexual debut among adolescents and youth in Mozambique: A geo-additive survival analysis of the Mozambique 2021 AIDS indicator survey. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0326869
2. Charles Nkansah, Samuel K. Appiah, Felix Osei-Boakye, Emmanuel Appiah-Kubi, Gabriel Abbam, Samira Daud, Charles A. Derigubah, Simon B. Bani, Moses Banyeh, Kofi Mensah, … **Isaac Adjei** and 15 others (2025). Plasma Soluble Progenitor Cell Receptors as Biomarkers for Severe Anemia Among Malaria-Infected Pediatrics: A Prospective Study in Ghana. *Health Science Reports*. https://doi.org/10.1002/hsr2.70460
3. Charles Nkansah, Felix Osei-Boakye, Gabriel Abbam, Samuel K. Appiah, Charles A. Derigubah, Simon B. Bani, Samira Daud, Emmanuel K. Alhassan, **Isaac Adjei**, Emmanuel Appiah-Kubi, Anastasia Koduah, Bright Boakye, Samsiyatu Abdulai, Neena I. Anass, Dorcas Serwaa, Boniface N. Ukwah, Victor U. Usanga, Ejike F. Chukwurah (2024). Antibodies to specific domains of Plasmodium falciparum erythrocyte membrane protein-1 and its relationship with protection from severe malarial anemia: A prospective study among Ghanaian children. *Health Science Reports*. https://doi.org/10.1002/hsr2.70123
4. Rachid Muleia, Genito Maúre, Américo José, Plácida Maholela, **Isaac Akpor Adjei**, Md. Rezaul Karim, Sónia Trigo, Waltaji Kutane, Osvaldo Inlamea, Lawrence N. Kazembe, Tatiana Marrufo (2024). Assessing the Vulnerability and Adaptation Needs of Mozambique's Health Sector to Climate: A Comprehensive Study. *International Journal of Environmental Research and Public Health*. https://doi.org/10.3390/ijerph21050532
5. Charles Nkansah, Felix Osei-Boakye, Gabriel Abbam, Samuel K. Appiah, Samira Daud, Bright Boakye, Samsiyatu Abdulai, Madina Ahmed, Theophilus B. Antwi, Birago Boateng, … **Isaac Adjei** and 15 others (2024). Pro- and anti-inflammatory cytokines mediate the progression of severe anemia in malaria-infected children: A prospective study. *Immunity Inflammation and Disease*. https://doi.org/10.1002/iid3.70013
6. Tahiru Mahami, Bernard T. Odai, Samuel N.A. Nettey, Anita Asamoah, **Isaac Adjei**, Benjamin Offei, Abigail Mireku, Ernestina A. Ayeh, Fidelis C.K. Ocloo (2023). Microbial food safety of lettuce produced under

irrigated wastewater from Onyasia River in Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e19273

7. Fidelis C.K. Ocloo, Bernard T. Odai, Bernard Darfour, Tahiru Mahami, Jonathan Okai Armah, Ernestina A. Ayeh, **Isaac Adjei**, Jacob Basugilo, Sarah Asomaniwaa, Urszula Gryczka, Sylwester Bułka, Joyce Agyei-Amponsah (2023). Microbial quality and Aflatoxin levels of sorghum grains (Sorghum bicolor) irradiated with gamma rays, low energy electron beam (LEEB) and high energy electron beam (HEEB). *Radiation Physics and Chemistry*. https://doi.org/10.1016/j.radphyschem.2023.111474
8. Lucy Agnes Nyoagbe, Victoria Appiah, Bernard Tawiah Odai, Daniel Larbi, **Isaac Adjei** (2022). A comparative study of the use of radiation, lemon juice, and vinegar for the preparation and preservation of African giant snails (Achatina and Archachatina). *African Journal of Food Science*. https://doi.org/10.5897/ajfs2022.2190
9. Damianus Kofi Owusu (MSc),, Gabriel Asare Okyere (PhD),, **Isaac Akpor Adjei (MPhil)** (2019). A GLM Model for Predicting Students' Academic Performance in Further Mathematics: A Multiple Logistic Regression. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.3364275
10. Tahiru Mahami, Wellington Togby-Tetteh, Delali Isaac Kottoh, Leticia Amoakoah-Twum, Emmanuel Gasu, Sylvester Nana Yao Annan, Daniel Larbi, **Isaac Adjei**, Abraham Adu-Gyamfi (2019). Microbial Food Safety Risk to Humans Associated with Poultry Feed: The Role of Irradiation. *International Journal of Food Science*. https://doi.org/10.1155/2019/6915736
11. Benedict Barnes, **I. A. Adjei**, C. Sebil (2019). The Mathematical Modelling of Refuse Build-up on the University Campus: A Case Study of KNUST Campus. *European Journal of Pure and Applied Mathematics*. https://doi.org/10.29020/nybg.ejpam.v12i4.3546
12. Benedict Barnes, **I. A. Adjei**, S. K. Amponsah, E. Harris (2018). Product-Normed Linear Spaces. *European Journal of Pure and Applied Mathematics*. https://doi.org/10.29020/nybg.ejpam.v11i3.3284
13. Benedict Barnes, E.D J.O. Wusu-Ansah, S. K. Amponsah, **I.A. Adjei** (2018). The Proofs of Triangle Inequality Using Binomial Inequalities. *European Journal of Pure and Applied Mathematics*. https://doi.org/10.29020/nybg.ejpam.v11i1.3165
14. CSEH Benedict Barnes, **IA Adjei** (2018). The product-normed linear space. *European Journal of Pure and Applied Mathematics*.
15. **IA Adjei** (2016). An application of bootstrapping in logistic regression model. *Open Access Library Journal*. https://www.researchgate.net/profile/Isaac-Adjei-4/publication/308887932_An_Application_of_Bootstrapping_in_Logistic_Regression_Model/links/57f4ca4b08ae91deaa5c3e32/An-Application-of-Bootstrapping-in-Logistic-Regression-Model.pdf
16. **Isaac Akpor Adjei** (2016). Dependency of the Distribution of Salmonella-Specific Antibodies SP-Ratios on Weight and Sampling Time. *American Journal of Theoretical and Applied Statistics*. https://doi.org/10.11648/j.ajtas.20160503.12
17. **Isaac Adjei**, Md Karim, Rachid Muleia, Peter Jouck (2016). Evolution of Hearing Thresholds and the Effect of Age. *British Journal of Applied Science & Technology*. https://doi.org/10.9734/bjast/2016/25948
18. A Addo, **IA Adjei** (2015). Mathematical Modeling of Infra-red Drying of Mango-Sweetpotato Leathers. *Scholars Journal of Engineering and Technology (SJET)*. https://www.academia.edu/download/81306006/SJET34A334-340.pdf
19. JK Hagan, **IA Adjei**, A Baah (2013). Effects of extended period of storage and strain of layer on quality of chicken eggs. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v33i2.1
20. HAGAN JULIUS KOFI, M Bosompem, **IA Adjei** (2013). The Productive Performance of Local chickens in three ecological zones of Ghana. *ARPN journal of Agricultural and Biological Sciences.*. https://doi.org/10.5555/20133067641
21. **Isaac Akpor Adjei** (2009). Quantitative descriptive sensory analysis of the performance of pregelatinised starch-protein admixtures as fat mimetic in wheat bread. *Pakistan Journal of Nutrition*. https://www.academia.edu/download/43873735/

Quantitative_Descriptive_Sensory_Analysi20160318-417-129tupx.pdf

22. **IA Adjei** (2000). Modified food starches: Why, what, where and how, report from modified food starches. *Pakistan Journal of Nutrition*.