Journal Papers

1. Abu, M.; Akurugu, B. A.; Egbueri, J. C. (2024) Understanding groundwater mineralization controls and the implications on its quality (Southwestern Ghana): Insights from hydrochemistry, multivariate statistics, and multi-linear regression models, Acta Geophysica, Springer. https://doi.org/10.1007/s11600-023-01271-6
2. Addo I., Agyakwah, S.K., Amevenku F.K.Y., Asmah R., Mensah, E.T-D., Ragasa C., Trong Q.T. (2024). Assessment of production and profitability of stocking sizes and densities of Nile tilapia (*Oreochromis niloticus*) for small–scale pond culture in Ghana. *Global Scientific Journal* 12(4) 1390-1415
3. Addo, A., Armah, E. O., Agyakwah, S. K., Asmah, R., Mensah, E. T-D, Diyie, R. L., Amewu, S., Ragasa, S., Abban, E. K. & Osei-Atweneboana, M. Y. (2024) Microsatellite-Based Genetic Variations and Relationships Among Some Farmed Nile Tilapia Populations in Ghana: Implications for Nile Tilapia Culture. *Journal of Ghana Science Association*, 22(1): 1-8.
4. Akurugu, B.A., Yidana, S.M., Obuobie, E., Seidenfaden, I.K., Stisen, S., **Chegbeleh, L.P**. (2024). Groundwater Recharge Estimation from Multiple Independent Methods in the Fractured Hard Rock Aquifers in the Densu River Basin, Ghana, Sustainable Water Resources Management. *Accepted (October 2024) and under production for publication*.
5. Anani, F. A., Atsakpo, P. D. K., Donkor, K. K., Ayarika, F. A., Johnson-Ashun, M. and Danquah, E. T. (2024). Profitability of using five different commercial tilapia starter feeds on the Ghanaian market in Nile tilapia, *Oreochromis niloticus* fingerlings production. Aquaculture Studies, 24(2), AQUAST1343. http://doi.org/10.4194/AQUAST1343
6. Appiah, E. K., Fatsi, P. S. K., Magna, E. K., Saito, H., Omura, M., & Kawai, K. (2024). Immunomodulatory effects of Mallotus japonicus extract on innate immune responses in Heterotilapia buttikoferi infected with Aeromonas hydrophila. The Microbe. https://doi.org/10.1016/j.microb.2024.100088
7. Arko, W. E., Zhao, S., Ma, J., Tian, L., Asante, K. A., Arko, F. E., Qi, S. and Zhang, G. (2024)- Quantification of halogenated flame retardants and dechlorane plus in the atmosphere of Ghana using PUF-PAS: seasonal trends, spatial distribution and human health exposure. *Submitted to Chemosphere Journal.*
8. Arko, W. E., Ma, J., Tian, L., Asante, K. A., Amoah, D. K., Qi, S., Zhang, G. and Zhao, S. (2024)- Impact of Anthropogenic Activities on Atmospheric Chlorinated Paraffins in Ghana Using Polyurethane Foam Disk - Passive Air Sampler. *Science of the Total Environment*, 954, 176252.
9. Armah, E.; Osae-Nyarko, L.; Idun, B.; Ahiabu, M.K.; Agyapong, I.; Kwarteng, F.B.; Oppong, M.; Mohammed, N.; Kotey, F.C.N.; Osei-Atweneboana, M.Y. and Dayie, N. T. K. D. (2024) High Prevalence of ESBL Genes in Commensal Escherichia coli of the Urinary Tract: Implications for Antibiotic Stewardship among Residents of Ghanaian Elderly Nursing Care Homes. Genes, 15,985. https://doi.org/10.3390/genes15080985
10. Bazaanah, P., Buthelezi, S. J., & Oppong, D. A. K. (2024). Qualitative study of drinking water, sanitation, and hygiene access: Perspectives from the Central Gonja District, Ghana, and Mtubatuba Municipality, South Africa. *Journal of Water, Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2024.021
11. Bazaanah P., Obuobie E., Boadi S. A., Oblime F. T., Granaham P., and Danban M. K. (2024). Citizens' perceptions of water and sanitation governance in Bilsikura of the Central Gonja District, Ghana, *Social sciences &humanities* open, (Under review).

12. Bazaanah, P. and Ngcobo, P. (2024) Shadow of justice: review on women's struggle against gender-based violence in Ghana and South Africa. *SN Social Sciences*, 4:126, Springer. https://doi.org/10.1007/s43545-024-00926-5.
13. Bekoe, E.M.O., Quarcoo, G., Dankwa, P., Zita, N., Adu-Boakye, M., Mensah, E.T., Kumi, M. (2024). Health risk assessment of surface water resources in the Nandom Municipality of Ghana. Discov Public Health 21, 35 (2024). https://doi.org/10.1186/s12982-024-00150-9
14. Bruce-Vanderpuije, P., Asmah, R., Ameworwor, M. Y., Hotor, D. W., Hildebrandt, L., Proefrock, D., Ebinghaus, R., Haruna, Z., Norvimagbe, C. N., Asante, K. A., Nunoo, A. A. and Osei-Atweneboana, M. Y. (2024). Quantitative Assessment of Microplastics in fish from the Gulf of Guinea, Ghana using LDIR Spectroscopy: Implications for Marine Food Safety and Health Risk Evaluation. Submitted to the *Environmental Pollution* Journal.
15. Bruce-Vanderpuije P, Agadzi, YA, Norvimagbe, IC, Asmah, R, Hildebrandt, L, Proefrock, D, Ebinghaus, R, Asante, KA. (2025). Microplastics in the lower Volta Basin, Ghana: Quantitation and fish dietary exposure assessment using advanced spectroscopic techniques (2025). *Chemosphere* 375, 144236 https://doi.org/10.1016/j.chemosphere 2025.144236
16. Bruce-Vanderpuije, P., Agadzi, Y. A., Norvimagbe, I. C., Asmah, R., Hildebrandt, L., Proefrock, D., Ebinghaus, R. and Asante, K. A. (2024) Quantitation and distribution of microplastics in the lower Volta Basin, utilizing Laser Direct Infrared Spectroscopy and Fourier Transform Infrared-Attenuated Total Reflection: Implications for human exposure (Submitted to the Journal of Hazardous Materials).
17. Chikezie, F. M., Veriegh, F. B. D., Armoo, S., Boakye, D. A., Taylor, M. and Osei-Atweneboana, M. Y. (2024) Ongoing transmission of onchocerciasis in the Pru District of Ghana after two decades of mass drug administration with ivermectin and comparative identification of members of the *Simulium damnosum* complex using cytological and morphological techniques, *Parasites & Vectors*, *17:394.* https://doi.org/10.1186/s13071-024-06333-2
18. Crawford, K.E., Hedtke, S.M., Doyle, S.R., Kuesel, A.C., Armoo, S., Osei-Atweneboana, M.Y. and Grant, W.N., (2024). Genome-based tools for onchocerciasis elimination: Utility of the mitochondrial genome for delineating *Onchocerca volvulus* transmission zones. International Journal for Parasitology, 54(3-4), pp.171-183.
19. Diyie, R. L., Osei-Atweneboana, M. Y., Armah, E., Asmah, R., Appenteng, P. & Aheto D. W. (2024). Genetic Diversity of Fungal Pathogens Affecting the Health of Cultured Fish in Ghana. *Journal of Ghana Science Association*, Volume 22 (2). ISSN: 2737-713X
20. Diyie, R.L., Osei-Atweneboana, M.Y.O, Armah, E., Yankson, K, and Aheto, D. W. (2024). Contamination of Fish Feed with Pathogenic Organisms: Implications on Fish Diseases in Aquaculture Systems. *Ghana Journal of Science, Technology and Development* | Vol. 9, Issue 2, ISSN: 2343-6727 DOI: https://doi.org/
21. Emeji, I. C., M. Kumi and R. Meijboom (2024). "Performance Evaluation of Benzyl Alcohol Oxidation with tert-Butyl Hydroperoxide to Benzaldehyde Using the Response Surface Methodology, Artificial Neural Network, and Adaptive Neuro-Fuzzy Inference System Model." ACS Omega.
22. Fatsi P.S.K., Kawai K., Asmah R., Bandoh Oppong B., Appiah E.K., Hashem S., Addo A. Kusorgbor J.K., Magna E.K., Obeng A.K., Quansah L., Saba C.K.S., Bawah J., Setufe S.B., Adu-Nti F., Ameworwor M.Y. Quansah C.R., Saito, H., Johnson-Ashun M., Osei L.K., Agbeko E., Anani F.A., Agyakwah S.K. (2024) Immunomodulation and Humoral Immune Response in Teleost Immunized with Aeromonas-Derived

Antigenic Extracellular Bioactive Molecules. *Indian Journal of Microbiology*. https://doi.org/10.1007/s12088-024-01254-1.

23. Hamidu B. A., Tettevi E. J., Larbi J. A., Idun B. K., Asuming-Brempong E. K., Osei-Atweneboana M. Y. (2024). The effectiveness of Albendazole against Hookworm infections and the impact of Bi-annual treatment on anaemia and Body Mass Index of school children in the Kpandai District of Northern Ghana. PLoS ONE 19(3): e0294977. https://doi.org/10.1371/journal.pone.0294977
24. Hashem, S., Kawai, K., Kushida, T., Hamaoka, E., Fatsi, P. S. K., & Saito, H. (2024). Genetic relationships between and within some Malawian cichlid genera. *Journal of Fish Biology*, 1–13. https://doi.org/10.1111/jfb.15848
25. Hodgson, J., Twieku, G., Quarcoo, G., Armah, E., Osei-Atweneboana, M.Y. and Armoo, S. (2024). Toward the elimination of NTDs: application of cost-effective and sensitive molecular environmental surveillance tools—a pilot study. *Frontiers in Parasitology*, *3*, p.1340161.
26. Idowu IG, Megson D, Ekpe OD, Bruce-Vanderpuije P, Sandau, CD (2025). Systematic Review of Methods for the Analysis of Total Per- and Polyfluoroalkyl Substances (PFAS). *Science of Total Environment*, 967, 178644 https://doi.org/10.1016/j.scitotenv 2025.178644
27. Kaboja Magna E.K., Ofosu-Koranteng F., Asmah R., Mensah E.T., Appiak E.K., Fatsi P.S., Adu-Nti F., Kpodo Z.C. Lente I. (2024) Preliminary investigation on the occurrence and health risk assessment of antibiotics in cultured tilapia retailed at a commercial outlet in Tema, Ghana. *Heliyon* 10 (2024) e28193. https://doi.org/10.1016/j.heliyon.2024.e28193.
28. Kazapoe, R. W., Amuah, E. E. Y., Dankwa, P., Fynn, O. F., Addai, M. O., Berdie, B. S., and Douti, N. B. (2024). Fluoride in groundwater sources in Ghana: A multifaceted and country-wide review. Heliyon.
29. Magna E.K, Ofosu-Koranteng F, Asmah R, Mensah E.T-D., Appiah EK, Fatsi PS, Adu-Nti F, Kpodo ZC, Lente I. (2024). Preliminary investigation on the occurrence and health risk assessment of antibiotics in cultured tilapia retailed at a commercial outlet in Tema, Ghana. *Heliyon*, 18;10(6):e28193. https://doi:10.1016/j.heliyon.2024.e28193
30. Magna, E. K., Appiah, E. K., Fatsi, P. S. K., Abarike, E. D., Asante, K. A., Kogbe, M., Ayarika, F., Dabi, M. and Sakna, J. K. (2024)- Potential Role of Aquaculture Fish to the Recommended Nutritional Intake (RNI) of Children, Adults, Pregnant and Lactating Women in the Asuogyaman Municipality, Ghana. (*Submitted to the Food Analytical Methods Journal*).
31. Martin, E., Bekoe, O., Quarcoo, G., Dankwa, P., Naangmenyele, Z., Adu-Boakye, M., Emmanuel, ·, Mensah, T.-D., & Kumi, · Michael. (2024). Health risk assessment of surface water resources in the Nandom Municipality of Ghana. *Discover Public Health*, *21*(35), 35. https://doi.org/10.1186/s12982-024-00150-9
32. Megson D, Bruce-Vanderpuije P, Idowu IG, Ekpe OD, Sandau CD (2024). A systematic review for non-targeted analysis of per- and polyfluoroalkyl substances (PFAS). *Science of The Total Environment*, 960, 178240. https://doi.org/10.1016/j.scitotenv.2024.178240
33. Mensah, N.O., Asare, J.K., Mensah, E.T-D., Amrago, E.C., Osei Tutu, F. & Donkor, A. (2024). Determinants and framework for implementing sustainable climate-smart aquaculture insurance system for fish farmers: Evidence from Ghana, *Aquaculture*, Vol. 581, 740354, https://doi.org/10.1016/j.aquaculture.2023.740354
34. Nditanchou, R.; Agyemang, D.; Dixon, R.; D'Souza, S.; Selby, R.; Opare, J.; Tettevi, E. J.; Asiedu, M. D.; Idun, B.; Chailloux, A.; Schmidt, E.; Hamill, L.; Senyonjo, L. and Osei-Atweneboana, M. Y. (2024) Persistent transmission of onchocerciasis in

Kwanware-Ottou focus in Wenchi health district, Ghana, *BMC Infectious Diseases*, 24:1156. https://doi.org/10.1186/s12879-024-10071-2

35. Obiri-Nyarko, F., Quansah, J. O., Asare, S. V., Fynn, O. F., Okrah, C., Debrah, S. K. and Karikari, A. Y. (2024). Determination of threshold values and heavy metal pollution assessment of soils in an industrial area in Ghana. *Environmental Monitoring and Assessment*, 196(6), 546.
36. Obuobie, E., Osei-Owusu, M., Anornu, G. K., Asante-Sasu, C., & Asmah, R. (2024). Estimation of suspended sediment load to the Volta Lake under changing climate using empirical discharge-sediment equations. *International Journal of River Basin Management*, 1–12. https://doi.org/10.1080/15715124.2024.2382175.
37. Obuobie, E., Osei, M.A., Addi, M., Agyekum, J., Akurugu, B.A., Bazaanah, P., Gaisie-Essilfie, F.A., Appiah, G. (2024) Analysis of Spatio-temporal Trends in Climate Extremes in the Lower Volta Basin, Ghana. *Journal of Theoretical and Applied Climatology*. Accepted (December 2024) and under production for publication.
38. Odinakachukwu, C. E., Adjei, K. A., Andam-Akorful, S. A., Gyamfi, C. Darko, D., Odai, S. N. (2024). Evaluation of near-real-time satellite rainfall estimates for extreme precipitation analysis over the Volta Basin, West Africa. *Submitted to Tanzania Journal of Engineering and Technology (accepted).*
39. Okafor, G. C., Ogbu, K. N., Agyekum, J., Limantol, A. M., & Larbi, I. (2024). Rainfall projections under different climate scenarios over the Kaduna River Basin, Nigeria. Discover Environment, 2(1), 89.
40. Owiredu, S. A.; Onyango, S. O.; Song, E.-A.; Kim, K.-I.; Kim, B.-Y. and Lee, K.-H (2024) Enhancing Chub Mackerel Catch Per Unit Effort (CPUE) Standardization through High-Resolution Analysis of Korean Large Purse Seine Catch and Effort Using AIS Data, *Sustainability,* 16,1307. https://doi.org/10.3390/su16031307
41. Quarcoopome, T., Asante, K. A., Akrong, M. O., Amevenku, F. K. Y. and Addico, G. (2024). State of Keta and Songor Lagoon Ecosystems in Ghana – Post Sea Defence Intervention. *International Aquatic Research*. In press, Manuscript ID: IAR-2408-1737
42. Shrestha, H., McCulloch, K., Chisholm, R.H., Armoo, S., Veriegh, F., Sirwani, N., Crawford, K.E., Osei-Atweneboana, M.Y., Grant, W.N. and Hedtke, S.M., (2024). Synthesizing environmental, epidemiological and vector and parasite genetic data to assist decision making for disease elimination. *Molecular Ecology*, *33*(11), p.e17357.
43. Tettevi, E. J., Kuevi, D. N. O., Sumabe, B. K., Simpong, D. L., Maina, M. B., Dongdem, J. T., Osei-Atweneboana, M. Y. and Ocloo, A. (2024). In Silico Identification of a Potential TNF-Alpha Binder Using a Structural Similarity: A Potential Drug Repurposing Approach to the Management of Alzheimer's Disease. *BioMed Research International*, Volume 2024, Article ID 9985719, 13pp. https://doi.org/10.1155/2024/9985719