

Journal Papers

1. Akita, L. G., Laudien, J., **Akrong, M.**, Biney, C., Nyarko, E., & Addo, S. (2020). Physicochemical influence on the spatial distribution of faecal bacteria and polychaetes in the Densu Estuary, Ghana. *African Journal of Environmental Science and Technology*, 14(6), 139-158.
2. Ama, Onoyivwe Monday, Khotso Khoele, William Wilson Anku, Suprakas Sinha Ray, Peter Ogbemudia Osifo, and David Jacobus Delpont. "Synthesis and Application of MnO₂/Exfoliated Graphite Electrodes for Enhanced Photoelectrochemical Degradation of Methylene Blue and Congo Red Dyes in Water." *Electrocatalysis* (2020).
3. Amoah LE, Acquah FK, Nyarko PB, Cudjoe C, Dickson D, **Ayanful-Torgby R.** Comparative analysis of asexual and sexual stage Plasmodium falciparum development in different red blood cell types. *Malar J.* 19: 200 (2020).
4. Anani, F.A., Tornyeviadzi, E.N. and Akpakli, B.K. (2020). Profitability of using different crude protein contents of the most commonly used commercial tilapia feed in Ghana for Nile tilapia (*Oreochromis niloticus*) fingerlings production. *International Journal of Fisheries and Aquatic Studies*, 8 (3): 484-488.
5. Anani, F.A., Tornyeviadzi, E.N., Atsakpo, P.D.K., Agyapong, C.K. and Donkor, K.K. (2020). Effect of keeping 17 α -methyl testosterone hormonal feeds at different ambient temperatures on mono-sex male tilapia fingerlings production. *International Journal of Fisheries and Aquatic Research*, 5(2): 64-69.
6. **Anku, William Wilson**, Eric Selorm Agorku, Samuel Osei-Bonsu Oppong, and Anthony Yaw Karikari. "MWCNTs attached neodymium doped-ZnO photocatalysts for efficient removal of dyes from wastewater." *SN Applied Sciences* 5 (2020): 1-13.
7. Appiah, S.; Mensah P.; **Ofori-Agyeman, C.** (2020) Using Integrated Geophysical Method in Groundwater Exploration in the Nkoranza South District, Ghana. *Elixir International*
8. Bortey-Sam, N., Ikenaka, Y., Akoto, O., Nakayama, S. M. M., **Asante, K. A.**, Baidoo, E. and Ishizuka, M. (2020)- Human biomonitoring of essential metals in urine of 3–85-year-old residents in an industrial city and association between aluminum exposure and occurrence of myalgia in Ghana. Submitted to the *Science of the Total Environment*.
9. **Duah, A.A., Karikari, A.Y., Akurugu, B.A. and Darko, H.F.** (2020). Hydrochemical Characteristics of Surface Waters and their Suitability for Irrigation in the Artisanal Mining Environment in Ghana. *Elixir Pollution*, 148, 54956-54964.
10. Gonzalez, J.M., Tomlinson, J.E., Harou, J.J., Martínez Ceseña, E.A., Panteli, M., BottacinBusolin, A., Hurford, A., Olivares, M.A., Siddiqui, A., Erfani, T., Strzepek, K.M., Mancarella, P., Mutale, J., Obuobie, E., Seid, A.H., and Ya, A.Z. (2020). Spatial and sectoral benefit distribution in water-energy system design. *Applied Energy*, Volume 269, <https://doi.org/10.1016/j.apenergy.2020.114794>.
11. Gyimah, R., Gyamfi, C., Anornu, G.K., **Karikari, A. Y.** and Tsyawo, F. W. (2020). Multivariate Statistical Analysis of the Water Quality of the Densu River, Ghana. *International Journal of River Basin Management*. <https://doi.org/10.1080/15715124.2020.1803337>.
12. Gyimah, R., **Karikari, A. Y.**, Gyamfi C., Asantewaa-Tannor, P. and Anornu, G.K. (2020). Spatial Evaluation of Land use Variability on Water Quality of the Densu Basin, Ghana. *Water Supply Vol*

(20) 8 : 3000-3013. Doi: 10.2166/ws2020.187. CS

13. Karikari A.Y., Asmah R., Anku W. W., Agbo, N., Telfer T. and Lindsay R. (2020). Heavy metal concentrations and sediment quality of a cage farm on Volta Lake, Ghana. *Aquaculture Research*. <https://doi.org/10.1111/are.14555>
14. Karikari, Anthony Yaw, Ruby Asmah, **William Wilson Anku**, Steve Amisah, Nelson Wheatson Agbo, Trevor C. Telfer, and Lindsay Glenn Ross. "Heavy metal concentrations and sediment quality of a cage farm on Lake Volta, Ghana." *Aquaculture Research* 5 (2020): 2041-2051.
15. Kumari, Renu, Adeniyi Olugbenga Osikoya, Francis Opoku, **William Wilson Anku**, Sudheesh Kumar Shukla, and Penny Poomani Govender. "Composite 2D Nanointerfaces for Electrochemical Biosensing: An Experimental and Theoretical Study." *ACS Applied Bio Materials* (2020).
16. Larbi, I., **Obuobie, E.**, Verhoef, A., Julich, S., Feger, K-H., Bossa, A.Y., and Macdonald, D.M.J. (2020). Water balance components estimation under scenarios of land cover change in the Veua Catchment, West Africa, *Hydrological Sciences Journal*, DOI: 10.1080/02626667.2020.1802467.
17. Logah, F.Y., Adjei, K. A., Obuobie, E., Gyamfi, C., and Odai, S.N. (2020). Evaluation and Comparison of Satellite Rainfall Products in the Black Volta Basin. *Environ. Process*, DOI: 10.1007/s40710-020-00465-0.
18. Loh, Y.S.A., **Akurugu, B.A.**, **Manu, E.**, Abdul-Samed A. 2020. Assessment of groundwater quality and the main controls on its hydrochemistry in some Voltaian and basement aquifers, northern Ghana. *Groundwater for Sustainable Development* 10 (2020) 100296
19. Manyedi, Sechaba, **William Wilson Anku**, Ephraim M. Kiarri, and Penny P. Govender. "Thermoelectric, Electronic, and Optical Response of Nanostructured Al-doped ZnO@ 2D-TiC Composite." *ChemistrySelect* 42 (2020): 13144-13154.
20. Mensah, E.T-D, Dankwa, H.R, Lauridsen, T.L., Asmah, R. (2019). Food preferences of some major fish species in Stratum III of Lake Volta, Ghana. *Journal of Ghana Science Association*, Vol. 18(2):29-36.
21. **Mensah, E.T-D**, Dankwa, H.R, Lauridsen, T.L., Asmah, R. (2019). Food preferences of some major fish species in Stratum III of Lake Volta, Ghana. *Journal of Ghana Science Association*, Vol. 18(2):29-36.
22. Minetti C, Pilotte N, Zulch M, Canelas T, Tettevi EJ, Veriegh FBD, et al. (2020) Field evaluation of DNA detection of human filarial and malaria parasites using mosquito excreta/feces. *PLoS Negl Trop Dis* 14(4): e0008175. <https://doi.org/10.1371/journal.pntd.0008175>.
23. Minetti C, Pilotte N, Zulch M, Canelas T, **Tettevi EJ**, Veriegh FBD, et al. (2020) Field evaluation of DNA detection of human filarial and malaria parasites using mosquito excreta/feces. *PLoS Negl Trop Dis* 14(4): e0008175. <https://doi.org/10.1371/journal.pntd.0008175>.

24. Obiri, S., Addico, G., Mohammed, S. Anku, W. W. Darko, H. and **Okrah, C.** (in press). Water quality assessment of the Tano basin in Ghana; A multivariate statistical approach. *Journal of Applied Water Science*.
25. **Obiri-Nyarko, F.**, Kwiatkowska-Malina, J., Malina, G., & Wołowiec, K. (2020). Assessment of zeolite and compost-zeolite mixture as permeable reactive materials for the removal of lead from a model acidic groundwater. *Journal of Contaminant Hydrology*, 229, 103597.
26. Prajapati SK, **Ayanful-Torgby R**, Pava Z et al. The transcriptome of circulating sexually committed Plasmodium falciparum ring stage parasites forecasts malaria transmission potential. *Nature com.* 11: 6159 (2020)
27. Qingyuan Dai, Xijin Xu, Brenda Eskenazi, **Kwadwo Ansong Asante**, Aimin Chen, Julius N. Fobil, Ake Bergman, Lesley Brennan, Peter D. Sly, Innocent Chidi Nnorom, Antonio Pascale, Qihua Wang, Eddy Y. Zeng, Zhijun Zeng, Philip J. Landrigan, Marie-Noel Bruné Drisse and Xia Huo (2020). Severe dioxin-like compound (DLC) contamination in e-waste recycling areas: An under-recognized threat to local health. *Environment International*, 139, 105731.
28. Umar F. M., Abobi, S. M., and **Quarcoo G.**, (2020). “Physicochemical and Bacteriological Quality of Public Swimming Pools in the Tamale Metropolis, Ghana.” *J — Multidisciplinary Scientific Journal* 3 (2): 236–49. <https://doi.org/10.3390/j3020018>.
29. Zita Naangmenyele, Somandla Ncube, Felix Jerry Akpabey, Simiso Dube, Mathew Muzi Nindi, Levels and potential health risk of elements in two indigenous vegetables from Golinga irrigation farms in the Northern Region of Ghana, *Journal of Food Composition and Analysis*, Volume 96, 2021, 103750, ISSN