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RESEARCH

Areas Endocrinology · Infectious Diseases · Epidemiology · Modeling and Simulation · Public Health, Environmental and Occupational Health · Ecology

RESEARCH SUMMARY

16	668	11	11	1.97	25%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 16 publications listed below, 2006–2022. 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. 4 of the 16 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 16

1. Peter Ekow Baffoe, **Alfred Allan Duker**, Efiba Vidda Senkyire-Kwarteng (2022). Assessment of health impacts of noise pollution in the Tarkwa Mining Community of Ghana using noise mapping techniques. *Global Health Journal*. https://doi.org/10.1016/j.glohj.2022.01.005
2. Efiba Vidda Senkyire Kwarteng, Frank Badu Osei, Samuel Ato Andam-Akorful, Alexander Kwarteng, Da-Costa Boakye Mensah Asare, Jonathan Arthur Quaye-Ballard, **Alfred Allan Duker** (2022). Mapping Spatial Variation and Impact of the National MDA Program on Lymphatic Filariasis Elimination in Ghana: An Initial Study. *Frontiers in Tropical Diseases*. https://doi.org/10.3389/fitd.2022.811909
3. **Alfred Allan Duker**, Efiba Vidda Senkyire Kwarteng (2021). Lymphatic filariasis: a snap shot of a neglected tropical disease. *International Journal of Community Medicine and Public Health*. https://doi.org/10.18203/2394-6040.ijcmph20212625
4. Efiba Vidda Senkyire Kwarteng, Samuel Ato Andam-Akorful, Alexander Kwarteng, Da-Costa Boakye Asare, Jonathan Arthur Quaye-Ballard, Frank Badu Osei, **Alfred Allan Duker** (2021). Spatial variation in lymphatic filariasis risk factors of hotspot zones in Ghana. *BMC Public Health*. https://doi.org/10.1186/s12889-021-10234-9
5. Peter Ekow Baffoe, **Alfred Allen Duker** (2019). Evaluation of Two Noise Level Prediction Models: Multiple Linear Regression and a Hybrid Approach. *Urban and Regional Planning*. https://doi.org/10.11648/j.urp.20190403.12
6. Mary Antwi, **Alfred Allan Duker**, Mathias Fosu, Robert Clement Abaidoo (2016). Geospatial approach to study the spatial distribution of major soil nutrients in the Northern region of Ghana. *Cogent Geoscience*. https://doi.org/10.1080/23312041.2016.1201906
7. Bernard Kumi-Boateng, D. Mireku-Gyimah, **A.A. Duker** (2015). A Spatio-Temporal Based Estimation of Sequestered Carbon in the Tarkwa Mining Area of Ghana*. *Ghana Mining Journal*.
8. I.K. Nooni, **A.A. Duker**, I. Van Duren, L. Addae-Wireko, E.M. Osei Jnr (2014). Support vector machine to map oil palm in a heterogeneous environment. *International Journal of Remote Sensing*. https://doi.org/10.1080/01431161.2014.930201
9. I. Yakubu, D. Mireku-Gyimah, **A. A. Duker** (2013). Multi-Spatial Criteria Modelling of Fire Risk and Hazard in the West Gonja Area of Ghana. *Research Journal of Environmental and Earth Sciences*. https://doi.org/

10.19026/rjees.5.5660

10. Frank B Osei, **Alfred A Duker**, Alfred Stein (2012). Bayesian structured additive regression modeling of epidemic data: application to cholera. *BMC Medical Research Methodology*. https://doi.org/10.1186/1471-2288-12-118
11. Francis Kemausuor, George Yaw Obeng, Abeeku Brew-Hammond, **Alfred Duker** (2011). A review of trends, policies and plans for increasing energy access in Ghana. *Renewable and Sustainable Energy Reviews*. https://doi.org/10.1016/j.rser.2011.07.041
12. Frank B. Osei, **Alfred A. Duker**, Alfred Stein (2011). Hierarchical Bayesian modeling of the space-time diffusion patterns of cholera epidemic in Kumasi, Ghana. *Statistica Neerlandica*. https://doi.org/10.1111/j.1467-9574.2010.00475.x
13. Frank B. Osei, **Alfred A. Duker**, Ellen-Wien Augustijn, Alfred Stein (2010). Spatial dependency of cholera prevalence on potential cholera reservoirs in an urban area, Kumasi, Ghana. *International Journal of Applied Earth Observation and Geoinformation*. https://doi.org/10.1016/j.jag.2010.04.005
14. Frank B Osei, **Alfred A Duker** (2008). Spatial and demographic patterns of Cholera in Ashanti region - Ghana. *International Journal of Health Geographics*. https://doi.org/10.1186/1476-072x-7-44
15. Frank B Osei, **Alfred A Duker** (2008). Spatial dependency of V. cholera prevalence on open space refuse dumps in Kumasi, Ghana: a spatial statistical modelling. *International Journal of Health Geographics*. https://doi.org/10.1186/1476-072x-7-62
16. **Alfred A. Duker**, Francoise Portaels, Martin Hale (2006). Pathways of Mycobacterium ulcerans infection: A review. *Environment International*. https://doi.org/10.1016/j.envint.2006.01.002