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RESEARCH

Interests	Environmental Chemistry · Analytical Chemistry · Risk Assessment · Pollution in Mining areas · Marine Pollution
Areas	Health, Toxicology and Mutagenesis · Pollution · Water Science and Technology · Aquatic Science · Building and Construction · Cancer Research

RESEARCH SUMMARY

47	1,020	19	28	1.86	24%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 47 publications listed below, 1981–2023. Field-weighted impact is the mean over the 29 works scored for it; 1.00 is the world average for works of the same field, type and year. 7 of the 29 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 45

1. Pedro Kremer, Florence Haruna, Rejoice Tuffour Sarpong, Dennis Agamah, Joshua Billy, Kingsley Osei-Kwakye, Princess Aidoo, **Deborah Dodoo**, Marion Okoh-Owusu (2023). An impact assessment of the use of aerial logistics to improve access to vaccines in the Western-North Region of Ghana. *Vaccine*. https://doi.org/10.1016/j.vaccine.2023.06.036
2. E.A. Asare, D.K. Essumang, **D.K. Dodoo**, S. Tagoe (2018). Utilization of Bacillus thuringiensis MC28 as a biosorbent for mercury in groundwaters from some selected gold mining communities in the Wassa West District of the Western Region of Ghana. *Environmental Nanotechnology Monitoring & Management*. https://doi.org/10.1016/j.enmm.2017.12.005
3. DK Essumang, **DK Dodoo** (2017). Determination of pesticides residue content in watermelon fruit from Ghana. *Fruits*. https://revues.cirad.fr/index.php/fruits/article/download/32026/31625
4. Essumang David Kofi, Antwi-Adjei Roberta, Adjei Joseph, Akwansah, E. Gilbert, **D.K. Dodoo** (2017). Seasonal Variation of Polycyclic Aromatic Hydrocarbon (PAH) Contamination in Crassostrea tulipa (Oysters) and Sediments in Three Ghanaian Coastal Ecosystems. *Research Journal of Environmental Sciences*. https://doi.org/10.3923/rjes.2018.63.72
5. DK Essumang, **DK Dodoo**, JK Adjei (2016). Polycyclic aromatic hydrocarbons in settled dust particles in selected Ghanaian environments: levels, source characterization, and assessment of inhalational health risks. *Indoor and Built Environment*.
6. D. K. Essumang, J. Ofori, **D. K. Dodoo**, J. K. Adjei (2014). Polycyclic aromatic hydrocarbons in settled dust particles in selected Ghanaian environments: Levels, source characterization, and assessment of inhalational health risks. *Indoor and Built Environment*. https://doi.org/10.1177/1420326x14544530
7. D.K. Essumang, **D.K. Dodoo**, J.K. Adjei (2013). Effect of smoke generation sources and smoke curing duration on the levels of polycyclic aromatic hydrocarbon (PAH) in different suites of fish. *Food and Chemical Toxicology*. https://doi.org/10.1016/j.fct.2013.04.014
8. D.K. Essumang, **D.K. Dodoo**, J.K. Adjei (2013). Effective reduction of PAH contamination in smoke cured fish products using charcoal filters in a modified traditional kiln. *Food Control*. https://doi.org/10.1016/

j.foodcont.2013.06.045

9. D. K. Essumang, E. A. Asare, **D. K. Dodoo** (2013). Pesticides residues in okra (non-target crop) grown close to a watermelon farm in Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-013-3123-5

10. **D.K. Dodoo**, D.K. Essumang, J.W.A. Jonathan (2012). Accumulation profile and seasonal variations of polychlorinated biphenyls (PCBs) in bivalves Crassostrea tulipa (oysters) and Anadara senilis (mussels) at three different aquatic habitats in two seasons in Ghana. *Ecotoxicology and Environmental Safety*. https://doi.org/10.1016/j.ecoenv.2012.10.013

11. **D.K. Dodoo**, D.K. Essumang, J.W.A. Jonathan, J.K. Bentum (2012). Polychlorinated biphenyls in coastal tropical ecosystems: Distribution, fate and risk assessment. *Environmental Research*. https://doi.org/10.1016/j.envres.2012.07.011

12. D.K. Essumang, **D.K. Dodoo**, J.K. Adjei (2012). Polycyclic aromatic hydrocarbon (PAH) contamination in smoke-cured fish products. *Journal of Food Composition and Analysis*. https://doi.org/10.1016/j.jfca.2012.04.007

13. D. K. Essumang, **D. K. Dodoo**, G. Hadzi (2011). Distribution, Levels, and Risk Assessment of Polycyclic Aromatic Hydrocarbons (PAHs) in Singed Cattle Hide. *Human and Ecological Risk Assessment An International Journal*. https://doi.org/10.1080/10807039.2011.605332

14. AE Duncan, **David Kwesi Dodoo**, A Sam (2010). Assessing the Potential of a Natural Wetland in Grey Water Treatment (A Case Study in Cape Coast-Central Region of Ghana). *International Journal of Applied Environmental Sciences*. https://www.researchgate.net/profile/Arkoful-Sam/publication/292903905_Assessing_the_potential_of_a_natural_wetland_in_grey_water_treatment_A_case_study_in_Cape_Coast_-_central_region_of_Ghana/links/584fdb3a08aeb989252e685d/Assessing-the-potential-of-a-natural-wetland-in-grey-water-treatment-A-case-study-in-Cape-Coast-central-region-of-Ghana.pdf

15. A Sam, **DK Dodoo**, DK Essumang, CK Adokoh (2010). Assessment of level of cadmium and mercury oftwo estuaries in two regions of Ghana. *Res J Appl Sci*. https://scholar.google.com/scholar?cluster=6217364753478744251&hl=en&oi=scholarr

16. S. Obiri, **D. K. Dodoo**, D. K. Essumang, F. A. Armah (2010). Cancer and Non-Cancer Risk Assessment from Exposure to Arsenic, Copper, and Cadmium in Borehole, Tap, and Surface Water in the Obuasi Municipality, Ghana. *Human and Ecological Risk Assessment An International Journal*. https://doi.org/10.1080/10807031003788907

17. **DK Dodoo**, DK Essumang, FA Armah (2010). Cancer and non-cancer risk assessment from exposure to arsenic, cadmium and copper by resident adults and children in the Obuasi Municipality, Ghana. *Int J Human Ecol Risk Assess*. https://scholar.google.com/scholar?cluster=5770125472780241452&hl=en&oi=scholarr

18. D.K. Essumang, **D.K. Dodoo**, G. Hadzi (2010). Distribution, levels, and risk assessment of polycyclic aromatic hydrocarbons in the soot of some kitchens in the Cape Coast Metropolis of Ghana. *Toxicological & Environmental Chemistry Reviews*. https://doi.org/10.1080/02772241003694728

19. S. Obiri, **D.K. Dodoo**, F.A. Armah, D.K. Essumang, S.J. Cobbina (2010). Evaluation of lead and mercury neurotoxic health risk by resident children in the Obuasi municipality, Ghana. *Environmental Toxicology and Pharmacology*. https://doi.org/10.1016/j.etap.2010.01.001

20. D. K. Essumang, **D. K. Dodoo**, C. K. Adokoh, E. A. Fumador (2008). Analysis of Some Pesticide Residues in Tomatoes in Ghana. *Human and Ecological Risk Assessment An International Journal*. https://doi.org/10.1080/10807030802235243

21. D.K. Essumang, **D.K. Dodoo**, C.K. Adokoh, A. Sam, N.G. Doe (2008). Bioaccumulation of platinum group metals on some fish species (Oreochromis niloticus,Penaeus laspisulcates,Scylla serrate,Galaxias brevipinnisandMollusc) in the Pra estuary of Ghana. *Toxicological & Environmental Chemistry Reviews*. https://doi.org/10.1080/02772240701649869

22. D. K. Essumang, **D. K. Dodoo**, S. Obiri, J. Y. Yaney (2007). Arsenic, Cadmium, and Mercury in Cocoyam (Xanthosoma sagititolium) and Watercocoyam (Colocasia esculenta) in Tarkwa a Mining Community. *Bulletin of Environmental Contamination and Toxicology*. https://doi.org/10.1007/s00128-007-9244-1

23. S. Obiri, **D.K. Dodoo**, F. Okai-Sam, D.K. Essumang (2007). DETERMINATION OF FREE CYANIDE AND TOTAL CYANIDE CONCENTRATIONS IN SURFACE AND UNDERGROUND WATERS IN BOGOSO AND ITS SURROUNDING AREAS IN GHANA. *Bulletin of the Chemical Society of Ethiopia*. https://doi.org/10.4314/bcse.v21i2.21200

24. David Kofi Essumang, **DK Dodoo** (2007). Heavy metal levels in singedcattle hide (wele) and its human health implications. *Proceedings – The First International Conference on Environmental Research, Technology and Policy, ERTEP 2007, Accra, Ghana*.

25. Kwarteng Twumasi, **D. K. Dodoo**, D. K. Essumang, J. Blay, K. Yankson (2007). The Effect of some Selected Pesticides on the Growth and Reproduction of Fresh Water Oreochromis niloticus, Chrysicthys nigrodigitatus and Clarias gariepinus. *Bulletin of Environmental Contamination and Toxicology*. https://doi.org/10.1007/s00128-007-9279-3

26. D. K. Essumang, **D. K. Dodoo**, C. K. Adokoh (2007). The impact of vehicular fallout on the Pra estuary of Ghana (a case study of the impact of platinum group metals (PGMs) on the marine ecosystem). *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-007-0037-0

27. D.K. Essumang*, **D.K. Dodoo**, S. Obiri, B.A.K. Oduro (2006). ANALYSIS OF VEHICULAR FALLOUTS FROM TRAFFIC IN THE KUMASI METROPOLIS, GHANA. *Bulletin of the Chemical Society of Ethiopia*. https://doi.org/10.4314/bcse.v20i1.21139

28. D. K. Essumang, **D. K. Dodoo**, S. Obiri, A. K. Oduro (2006). Analysis of Polycyclic Aromatic Hydrocarbons in Street Soil Dust in Kumasi Metropolis of Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-005-9137-x

29. S. Obiri, **D.K. Dodoo**, F. Okai-Sam, D.K. Essumang (2006). Cancer Health Risk Assessment of Exposure to Arsenic by Workers of AngloGold Ashanti–Obuasi Gold Mine. *Bulletin of Environmental Contamination and Toxicology*. https://doi.org/10.1007/s00128-006-0907-0

30. S. Obiri, **D. K. Dodoo**, F. Okai–Sam, D. K. Essumang, A. Adjorlolo-Gasokpoh (2006). Cancer and Non-Cancer Health Risk from Eating Cassava Grown in Some Mining Communities in Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-006-0799-9

31. E. GILBERT, **D. K. DODOO**, F. OKAI-SAM, K. ESSUMAN, E. K. QUAGRAINE (2006). Characterization and Source Assessment of Heavy Metals and Polycyclic Aromatic Hydrocarbons (PAHs) in Sediments of the Fosu Lagoon, Ghana. *Journal of Environmental Science and Health Part A*. https://doi.org/10.1080/10934520600966649

32. D.K. Essumang, J.K. Bentum, **D.K. Dodoo** (2006). Lindane and propuxur residues in the top soils of some cocoa growing areas in five districts of the Central Region of Ghana. *Bulletin of the Chemical Society of Ethiopia*. https://doi.org/10.4314/bcse.v20i2.21161

33. S. Obiri, **D. K. Dodoo**, F. Okai-Sam, D. K. Essumang (2006). Non-Cancer Health Risk Assessment from Exposure to Cyanide by Resident Adults from the Mining Operations of Bogoso Gold Limited in Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-006-0773-6

34. **D. K. DODOO**, E. K. QUAGRAINE, F. OKAI-SAM, DORSA J. KAMBO, J. V. HEADLEY (2006). Quality of "Sachet" Waters in the Cape Coast Municipality of Ghana. *Journal of Environmental Science and Health Part A*. https://doi.org/10.1080/10934520500423238

35. Kwarteng Twumasi, **D. K. Dodoo**, D. K. Essumang (2006). Uptake and toxicity of some pesticides on three freshwater fishes (Oreochromis niloticus,Clarias gariepinusandChrysicthys nigrodigitatus). *Toxicological & Environmental Chemistry Reviews*. https://doi.org/10.1080/02772240600949931

36. **DK Dodoo** (2002). Pentachlorophenol (PCP) residues in the Takoradi Municipality in the Western Region of Ghana. *Journal of Natural Sciences*. https://www.africabib.org/rec.php?RID=Q00034086

37. **DK Dodoo** (1998). POLLUTANTS IN MARINE ORGANISMS AND SEDIMENTS; BIOLOGICAL RESPONSES-Trace Metals in Fish and Crustaceans-Identifying Heavier Polluted Areas in the Ghanaian Continental Shelf. *Chemistry and Ecology*. https://scholar.google.com/scholar?cluster=4206971993030113285&hl=en&oi=scholarr

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39. **DK DODOO** (1997). OF 14C-LINDANE APPLIED TO SOIL. *Environmental Behaviour of Crop Protection Chemicals: Proceedings of an International Symposium on the Use of Nuclear and Related Techniques for Studying Environmental Behaviour of Crop Protection Chemicals*. https://scholar.google.com/scholar?cluster=11662924792113577942&hl=en&oi=scholarr

40. B Gyan, **D Dodoo** (1997). Prevalence of Treponema pallidum Antibodies in Sera of Human Immunodeficiency Virus (HIV) Infected and Uninfected Ghanaians. *Ghana Medical Journal*. https://scholar.google.com/scholar?cluster=16524495012725569895&hl=en&oi=scholarr

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42. **DK Dodoo**, GA Adjei (1995). Copper and zinc in the sediment of the Fosu lagoon. *Ghana Journal of Chemistry*. https://scholar.google.com/scholar?cluster=11204123086544466241&hl=en&oi=scholarr

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44. AA Adjei, **D Dodoo**, B Gyan (1990). Nutritional status and levels of liver Enzymes in Ghanaian alcoholics. *Ghana Med. J.(Online)*. https://scholar.google.com/scholar?cluster=14693331114281852786&hl=en&oi=scholarr

45. **DK Dodoo** (1981). Optimization Of The Silver Diethyldithiocarbamate Spectrophotometric Method For The Determination Of Arsenic In Tap Waters. *Chemia Analityczna*. https://scholar.google.com/scholar?cluster=12389169259686551392&hl=en&oi=scholarr

Conference papers 1

1. K Kusi, **D Dodoo**, G Obeng-adjei, B Gyan (2005). Haptoglobin polymorphism and CD163 expression in relation to malaria severity [MIM-KK-3984]. *ACTA TROPICA*. https://scholar.google.com/scholar?cluster=21908638159837128 24&hl=en&oi=scholarr

Reports 1

1. **DK Dodoo**, DK Essumang, F Armah (2009). Risk Contribution: Around the World Cancer and Non-Cancer Risk Assessment from Exposure to Arsenic, Copper, and Cadmium in Borehole, Tap, and Surface Water in the Obuasi …. *University of Cape Coast*. https://ir.ucc.edu.gh/items/92d3edab-d0a6-4371-a52e-417d606db17d