David Kofi Essumang

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RESEARCH

Interests: Pharmacology · Toxicology and Pharmaceutics

Areas: Health, Toxicology and Mutagenesis · Pollution · Water Science and Technology · Environmental Chemistry · Artificial Intelligence · Plant Science

RESEARCH SUMMARY

168	3,673	37	79	1.63	18%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 168 publications listed below, 2005–2026. Field-weighted impact is the mean over the 98 works scored for it; 1.00 is the world average for works of the same field, type and year. 18 of the 98 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Teaching and Research
Chemistry, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

PhD.
Aalborg University, Aalborg, Denmark

MPhil. Chemistry 1997–2001
Chemistry, University of Cape Coast, Cape Coast, Ghana

BSc. Chemistry 1991–1996
Chemistry, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 151

1. Albert Ofori, Michael Aboah, Isaac Benkyi, Charity Owusu, Acquaah Ezekiel Kojo, **David K. Essumang** (2026). Comparison of computational and experimental outcomes in the degradation approaches of PFAS: A review study. *Next Sustainability*. https://doi.org/10.1016/j.nxsust.2026.100256
2. Justice Wiston Amstrong Jonathan, Daniel Elorm Kwame Kabotso, **David Kofi Essumang**, John Kwesi Bentum, Isaac Boamah, John Nketsiah, Innocentia Ruby Gborgblorvor, Alberta Dzifa Dayie, Justice Hayfron (2026). Heavy metal concentrations in composite breast milk and health risk assessment for breastfed infants in Ho, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2026.e45425
3. Frank Adusei-Mensah, Charity Owusu, Albert Ofori, Samuel Kyei, Carl Halladay Abraham, Sunday Olaleye, Samson Oluwafemi Balogun, Richard Osei Agjei, **David K. Essumang** (2026). Knowledge, Attitudes, Practice and the Prevalence of Eye Conditions Among Commercial Fish Smokers in Abuesi, Ghana: A Cross-Sectional Study. *Health Science Reports*. https://doi.org/10.1002/hsr2.72493
4. **David Essumang** (2026). Soil and Water Contamination by Perfluoroalkyl Acids (PFAAs) at Fire Outbreak Sites in Ghana: Distribution and Screening-level Risk Assessment. *Water, Air, & Soil Pollution*. https://doi.org/10.1007/s11270-026-09990-4

5. Robert Ohene Adu, **David Kofi Essumang**, Daniel Gyabaah, Isaac Bainin (2025). Assessing the hazards of welders at the Sunyani garages in Ghana. *Journal of industrial safety.*. https://doi.org/10.1016/j.jinse.2025.08.001
6. James Atta Dadson, **David Kofi Essumang**, Emmanuel Asare Ayim (2025). Assessment of Kaolin Canister Filters for Heavy Metal Removal from Contaminated Bore-Hole Water in Gold Mining Communities in Tarkwa-Nsuaem in the Western Region of Ghana. *International Journal of Innovative Science and Research Technology*. https://doi.org/10.38124/ijisrt/25may2108
7. M. Dorleku, C. Tay, V. A. Barku, S. Osae, **D. K. Essumang** (2025). Assessment of the processes influencing co-occurrence of arsenic and fluoride for pollution identification in groundwater within the Upper Oti Basin, Ghana. *Sustainable Water Resources Management*. https://doi.org/10.1007/s40899-025-01272-x
8. Joseph K. Adjei, Thomas Ahenguah, Anita Asamoah, John K. Bentum, **David K. Essumang** (2025). Distribution paradigm, ecological risk assessment and source apportionment of multiclass pesticides in the aquatic environment. *Ecotoxicology*. https://doi.org/10.1007/s10646-025-02992-8
9. Justice Wiston Amstrong Jonathan, Daniel Elorm Kwame Kabotso, **David Kofi Essumang**, John Kwesi Bentum, Jesse Azebiik Anak, Innocentia Ruby Gborgblorvor, Emmanuel Kormla Danyo, Hintermann Mbroh, John Tampuori, Richard Harry Asmah (2025). Essential minerals in colostrum of preterm and full-term Ghanaian mothers and related maternal factors. *Scientific Reports*. https://doi.org/10.1038/s41598-025-15815-x
10. John K. Bentum, Albert Eshun, **David K. Essumang**, Patrick Boakye, Joseph Kweku Adjei, Obed O. Ohene-Kwayisi, Jonathan N. Hogarh (2025). Fingerprints of Polychlorinated Biphenyl (PCB) Congener and Homologous Profile of the Pra River Basin Sediment. *OALib*. https://doi.org/10.4236/oalib.1113166
11. Charity Owusu, Albert Ofori, Frank Adusei-Mensah, Micheal Asare, Reginald Quansah, **David K. Essumang** (2025). Indoor air pollution in traditional fish smokehouses in Abuesi, Ghana: Health and environmental implications. *Journal of industrial safety.*. https://doi.org/10.1016/j.jinse.2025.10.005
12. James Atta Dadson, J. A., Fraikue, F. B., Dodoo, **D. K. Essumang, D. K.** (2025). Pesticides Residue In Ghana Cocoa Beans. *African Journal of Biomedical Research*. https://doi.org/10.53555/ajbr.v28i2s.6658
13. John K. Bentum, Albert Eshun, **David K. Essumang**, Patrick Boakye, Joseph Kweku Adjei, Justice Wiston Amstrong Jonathan, Obed O. Ohene-Kwayisi (2025). Polychlorinated Biphenyls Contamination of Drinking Water Source of the Pra River: Congener Distribution and Associated Risk. *OALib*. https://doi.org/10.4236/oalib.1113293
14. James Atta Dadson, Roberta Antwi-Adjei, David Kwesi Dodoo, **David Kofi Essumang** (2025). Polycyclic Hydrocarbons (Pahs) in Ghana Cocoa Beans. *Journal of Agricultural Chemistry and Environment*. https://doi.org/10.4236/jacen.2025.142013
15. James Atta Dadson -, Baah Sefa-Ntire -, **Essumang, D. K -**, Attastsi, I. K - (2025). Remediation of Heavy Metals from Well Water in Gold Mining Communities in Tarkwa-Nsuaem, Western Region of Ghana using Synthetic Silver Impregnated Zeolite X (AgZX). *International Journal on Science and Technology*. https://doi.org/10.71097/ijsat.v16.i2.5580
16. Charity Owusu, Albert Ofori, Frank Adusei-Mensah, Carl Halladay Abraham, Samuel Kyei, Reginald Quansah, **David Kofi Essumang** (2025). The Association Between Occupational Smoke Exposures and the Prevalence of Eye and Respiratory Health Conditions Among Commercial Fish Smokers in Abuesi, Ghana: A Cross-Sectional Self-Reported Study. *Environmental Health Insights*. https://doi.org/10.1177/11786302251317056
17. GY Hadzi, **David Kofi Essumang** (2024). Assessment of contamination and potential ecological risks of heavy metals in riverine sediments from gold mining and pristine areas in Ghana. *Journal of Trace Elements and Minerals*. https://www.sciencedirect.com/science/article/pii/S2773050623000629
18. Justice Wiston Amstrong Jonathan, **David K. Essumang**, John K. Bentum, Daniel Elorm Kwame Kabotso, Innocentia Ruby Gborgblorvor, Albert Eshun, Norkplim Dei Hlorlewu, Elizabeth Davordzi (2024). Exploring perfluoroalkyl substances contamination in human breast milk: First ghanaian study. *Chemosphere*. https://doi.org/10.1016/j.chemosphere.2024.143769
19. Charity Owusu, Albert Ofori, Frank Adusei-Mensah, Joseph Kweku Adjei, George Yaw Hadzi, John Kwesi

Bentum, Reginald Quansah, **David K Essumang** (2024). Health Risk Assessment of Occupational Exposures of Polycyclic Aromatic Hydrocarbons, Phthalates, and Semi-Volatile Chlorinated Organic Compounds in Urine of Commercial Fish Smokers, Ghana. *Environmental Health Insights*. https://doi.org/10.1177/11786302241306932

20. Justice Wiston Amstrong Jonathan, Daniel Elorm Kwame Kabotso, **David Kofi Essumang**, John Kwesi Bentum, Innocentia Ruby Gborgblorvor, Fidelis M. Kpodo, Francis Ofosu-Koranteng, Comfort Worna Lotse, Norkplim Dei Hlorlewu (2024). Investigating the levels of organochlorine pesticides in human milk at three lactational stages: an intensive Ghanaian study. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-024-12404-9
21. Samuel Fosu Gyasi, Emmanuel Timmy Donkoh, Akwasi Asamoah, Abdul Sakibu Raji, Robert Ohene Adu, **David Essumang**, Anthony Ablordey (2024). Isolation and assessment of Pseudomonas aeruginosa and Bacillus cereus as PCB-degrading bacteria in environmental bioremediation. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02083
22. Joseph K. Adjei, Henrietta Acquah, **David K. Essumang** (2024). Occurrence, efficiency of treatment processes, source apportionment and human health risk assessment of pharmaceuticals and xenoestrogen compounds in tap water from some Ghanaian communities. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e31815
23. Charity Owusu, Albert Ofori, Frank Adusei-Mensah, David Kwesi Dodoo, **David K. Essumang** (2024). Water quality, physicochemical, heavy metal content, and health risk assessment of borehole-water from selected mining communities in Ghana. *Groundwater for Sustainable Development*. https://doi.org/10.1016/j.gsd.2024.101230
24. **David Kofi Essumang** (2023). A scientometrics view on sustainable development in surface mining: Everything from the beginning. *Resources policy*. https://www.sciencedirect.com/science/article/pii/S0301420723001186
25. Benjamin Ason, Frederick Ato Armah, **David Kofi Essumang** (2023). Risks of toxic elements and endocrine disruptors in some soils in Ghana. *International Journal of Environmental Studies*. https://doi.org/10.1080/00207233.2023.2192617
26. Benjamin Ason, Frederick Ato Armah, **David Kofi Essumang** (2022). Characterization and quantification of endocrine disruptors in female menstrual blood samples. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2022.10.007
27. **David Kofi Essumang** (2022). Contaminant fate and human exposure to endocrine disrupting chemicals in selected contaminated soils in Ghana. *PhD diss.*, *University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/5464058b-1703-4a49-863b-06a236b86aec/content
28. Robert Ohene Adu, Samuel Fosu Gyasi, **David Kofi Essumang**, Samuel Adu-Gyamfi (2022). Design and construction of a gas filter system for hospital incinerators. *Environmental Challenges*. https://doi.org/10.1016/j.envc.2022.100651
29. Robert Ohene Adu, Samuel Fosu Gyasi, **David Kofi Essumang** (2022). Effectiveness of Charcoal Adsorbent in Flue Gas Filters for PCB Reduction in Smoke from Hospital Incinerators. *Journal of Combustion*. https://doi.org/10.1155/2022/5253467
30. S. Obiri, R Gobinah, **D.K. Essumang**, F.A. Armah, B. Ason, T.A. Tagbor, S.M. Kirgiz (2022). Extraction of TiO2 from kaolin deposits in the Central Region, Ghana: An alternative material for the formulation of climate-smart Portland cement. *Materials Today Proceedings*. https://doi.org/10.1016/j.matpr.2022.07.090
31. **David Kofi Essumang** (2022). Health Hazard Assessment Due to Slimming Medicinal Plant Intake: Werdemberg dos Santos et al. *Biological trace element research*. https://doi.org/10.1007/s12011-021-02732-z
32. Benjamin Ason, **David Kofi Essumang** (2022). Increasing Pesticide Use and Knowledge of the Health Effects of Endocrine Disrupting Chemicals in the Environment: A Study of Three Communities in Ghana. *The Journal of Population and Sustainability*. https://doi.org/10.3197/jps.63788304908974
33. Joseph K. Adjei, Alberta D. Dayie, Justice K. Addo, Anita Asamoah, Ernest O. Amoako, Benedicta Y. Egoh, Ebenezer Bekoe, Nathaniel O. Ofori, George A. Adjei, **David K. Essumang** (2022). Occurrence, ecological

risk assessment and source apportionment of pharmaceuticals, steroid hormones and xenoestrogens in the Ghanaian aquatic environments. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2022.06.011

34. M. Dorleku, A. Gibrilla, S. Ganyaglo, A. Duah, S. Osae, **D. K. Essumang** (2022). Spatio-temporal variation of groundwater chemistry in the Upper Oti Basin of Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-022-10760-y

35. Enoch Akyeampong, John R Bend, Isaac Luginaah, David Oscar Yawson, Samuel Jerry Cobbina, Frederick Ato Armah, Michael Osei Adu, **David Kofi Essumang**, Samuel Iddi, Paul K Botwe, Reginald Quansah (2022). Urinary Pesticide Residual Levels and Acute Respiratory Infections in Children Under 5 Years of Age: Findings From the Offinso North Farm Health Study. *Environmental Health Insights*. https://doi.org/10.1177/11786302221094418

36. Nathaniel Thompson, Joseph Kweku Adjei, John Kwesi Bentum, **David Kofi Essumang**, Godfred Odame Duodu, George Hadzi, George Alimo Adjei (2022). Vehicular influence on atmospheric concentrations and source apportionment of polycyclic aromatic hydrocarbons in some major cities in three regions of Ghana using epiphytic lichens. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2022.08.002

37. **David Kofi Essumang** (2021). Assessment of Risk from Liquefied Petroleum Gas (LPG) Filling Stations in the Accra Metropolis and Its Implications for Land Use Planning. *University of Cape Coast: Cape Coast, Ghana*. https://ir.ucc.edu.gh/server/api/core/bitstreams/92f4d960-b08b-4737-b686-935946d6a162/content

38. **David Kofi Essumang** (2021). Dental Waste Management Practices Among Dental Professionals In Selected Dental Hospitals/Clinics And Laboratories In South East Nigeria. *IOSR Journal of Dental and Medical Sciences (IOSR-JDMS) e-ISSN*.

39. **David Kofi Essumang** (2021). Disposición final de residuos sólidos hospitalarios. *3*. https://www.academia.edu/download/94289992/590.pdf

40. Joseph Kweku Adjei, Albert Ofori, Harry Kwaku Megbenu, Thomas Ahenguah, Alex Kissi Boateng, George Alimoh Adjei, John Kwesi Bentum, **David Kofi Essumang** (2021). Health risk and source assessment of semi-volatile phenols, p-chloroaniline and plasticizers in plastic packaged (sachet) drinking water. *The Science of The Total Environment*. https://doi.org/10.1016/j.scitotenv.2021.149008

41. **David Kofi Essumang** (2021). Identifying human health risks from precious metal mining in Sierra Leone: Identifying Human Health Risks from Precious Metal Mining in Sierra Leone. *Regional environmental change*. https://doi.org/10.1007/s10113-020-01731-5

42. Collins Kuffour, **David Kofi Essumang**, Hugh Komla Akotoye, Richard Amankwah Kuffour, Janice Dwomoh Abraham (2021). Pesticide and Nutrient Loads of Lake Bosomtwe in the Ashanti Region of Ghana. *Journal of Water Resource and Protection*. https://doi.org/10.4236/jwarp.2021.1310042

43. **David Kofi Essumang** (2021). The Contribution Soil Heavy Metals Pollution to the Cause of Destruction of the Coconut Palm in Some Selected Areas of the Central Region of Ghana: A Case Study in Ajumako …. *Master of Philosophy Thesis, University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/ded6cbdc-2d24-45a2-9bf5-1953da879cc8/content

44. Emmanuel Amoakwah, Shamim Ahsan, Mohammad Arifur Rahman, Eric Asamoah, **D. K. Essumang**, Mursheda Ali, Khandakar Rafiq Islam (2020). Assessment of Heavy Metal Pollution of Soil-water-vegetative Ecosystems Associated with Artisanal Gold Mining. *Soil and Sediment Contamination An International Journal*. https://doi.org/10.1080/15320383.2020.1777936

45. **David Kofi Essumang** (2020). Cadmium Health Risk Assessment and Anthropogenic Sources of Pollution in Mount-Lebanon Springs: D. Halwani et al. *Exposure and Health*. https://doi.org/10.1007/s12403-019-00301-3

46. **David Kofi Essumang** (2020). Development of a New Ultra High Performance Liquid Chromatographic Method With Fluorescence and Dad Detection for Efficient Separation and Analysis of Antiparasitic …. *PhD diss., University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/276e41ad-3bb6-49cf-b90d-cd92d5f716b6/content

47. **David Kofi Essumang** (2020). Evaluating strategies to reduce arsenic poisoning in South Asia: A view from the social sciences. *Asian Development Review*. https://doi.org/10.1162/adev_a_00148

48. Robert Ohene Adu, Samuel Fosu Gyasi, **David Kofi Essumang**, Kenneth Bentum Otabil (2020). Medical Waste-Sorting and Management Practices in Five Hospitals in Ghana. *Journal of Environmental and Public Health*. https://doi.org/10.1155/2020/2934296

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50. **David Kofi Essumang** (2020). Unsafe waters: The hydrosocial cycle of drinking water in Western Mexico. *Local Environment*. https://doi.org/10.1080/13549839.2020.1805598

51. K. O. Boadu, O. F. Joel, **D. K. Essumang**, B. O. Evbuomwan (2019). A Review of Methods for Removal of Contaminants in Used Lubricating Oil. *Chemical Science International Journal*. https://doi.org/10.9734/csji/2019/v26i430101

52. K.O Boadu, O.F Joel, **D.K Essumang**, B.O Evbuomwan (2019). Comparative Studies of the Physicochemical Properties and Heavy Metals adsorption Capacity of Chemical Activated Carbon from Palm Kernel, Coconut and Groundnut Shells. *Journal of applied science and environmental management*. https://doi.org/10.4314/jasem.v22i11.19

53. George Yaw Hadzi, Godwin A. Ayoko, **David K. Essumang**, Shiloh K. D. Osae (2019). Contamination impact and human health risk assessment of heavy metals in surface soils from selected major mining areas in Ghana. *Environmental Geochemistry and Health*. https://doi.org/10.1007/s10653-019-00332-4

54. Frank Adusei-Mensah, **David Kofi Essumang**, Richard Osei Agjei, Jussi Kauhanen, Carina Tikkanen-Kaukanen, Martins Ekor (2019). Heavy metal content and health risk assessment of commonly patronized herbal medicinal preparations from the Kumasi metropolis of Ghana. *Journal of Environmental Health Science and Engineering*. https://doi.org/10.1007/s40201-019-00373-y

55. **David Kofi Essumang** (2019). Heavy metal content of herbal health supplement products in Dubai–UAE: a cross-sectional study. *BMC complementary and alternative medicine*. https://doi.org/10.1186/s12906-019-2693-3

56. Joseph Kweku Adjei, **David Kofi Essumang**, Evelyn Twumasi, Eric Nyame, Ishmael Muah (2019). Levels and risk assessment of residual phthalates, polycyclic aromatic hydrocarbons and semi-volatile chlorinated organic compounds in toilet tissue papers. *Toxicology Reports*. https://doi.org/10.1016/j.toxrep.2019.11.013

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58. Reginald Quansah, John R. Bend, Frederick Ato Armah, Felix Bonney, Joshua Aseidu, David Oscar Yawson, Michael Osei Adu, Isaac Luginaah, **David Kofi Essumang**, Abukari Abdul-Rahaman, Samuel Cobbina, Samuel Iddi, Matthew Tersigni, Samuel Afful, Peter Osei-Fosu, Edward Nketiah-Amponsah (2019). Respiratory and non-respiratory symptoms associated with pesticide management practices among farmers in Ghana's most important vegetable hub. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-019-7898-x

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60. Kofi W. Adu, Paul Armstrong, Lucas Servera, **David K. Essumang**, Samuel Y. Mensah (2018). Conversion of Agricultural Waste Streams into Value Added Products. *MRS Advances*. https://doi.org/10.1557/adv.2018.232

61. Israel Doyi, **David Essumang**, Gustav Gbeddy, Samuel Dampare, Elliot Kumassah, David Saka (2018). Spatial distribution, accumulation and human health risk assessment of heavy metals in soil and groundwater of the Tano Basin, Ghana. *Ecotoxicology and Environmental Safety*. https://doi.org/10.1016/j.ecoenv.2018.09.015

62. **David Kofi Essumang** (2018). Summary of the 2016-2018 directed study course for Graduate Students studying integrated fisheries management. *The USAID/Ghana Sustainable Fisheries Management Project (SFMP). Narragansett, RI: Coastal Resources Center, Graduate School of Oceanography, University of Rhode Island. GH2014_SCI045_CRC*. http://www.crc.uri.edu/download/GH2014_SCI045_CRC_FIN508.pdf

63. **David Kofi Essumang** (2018). The evidence base for social determinants of health as risk factors for infant mortality: A systematic scoping review. *Journal of health care for the poor and underserved*. https://muse.jhu.edu/pub/1/article/708237/summary

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65. Anita Asamoah, **David Kofi Essumang**, Jens Muff, Sergey V. Kucheryavskiy, Erik Gydesen Søgaard (2017). Assessment of PCBs and exposure risk to infants in breast milk of primiparae and multiparae mothers in an electronic waste hot spot and non-hot spot areas in Ghana. *The Science of The Total Environment*. https://doi.org/10.1016/j.scitotenv.2017.08.177

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67. **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

68. I. N. Doyi, **D. K. Essumang**, S. B. Dampare, D. Duah, A. F. Ahwireng (2017). Evaluation of radionuclides and decay simulation in a terrestrial environment for health risk assessment. *Scientific Reports*. https://doi.org/10.1038/s41598-017-16659-w

69. Israel Nutifafa Yawo Doyi, **David Kofi Essumang**, Asare Kwaku Agyapong, Samuel Asumadu-Sarkodie (2017). Soil-to-cassava transfer of naturally occurring radionuclides from communities along Ghana's oil and gas rich Tano Basin. *Journal of Environmental Radioactivity*. https://doi.org/10.1016/j.jenvrad.2017.11.036

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73. John K. Bentum, David K. Dodoo, Peter K. Kwakye, **David K. Essumang**, George A. Adjei (2016). Spatial and Temporal Distribution of Polychlorinated Biphenyl Residues in Tropical Soils. *Open Journal of Applied Sciences*. https://doi.org/10.4236/ojapps.2016.64024

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