Joseph Apau

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RESEARCH

Interests	Environmental Pollution Monitoring
Areas	Health, Toxicology and Mutagenesis · Pollution · Water Science and Technology · Food Science · Public Health, Environmental and Occupational Health · Analytical Chemistry

RESEARCH SUMMARY

27	432	11	11	1.22	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 27 publications listed below, 2010–2026. Field-weighted impact is the mean over the 21 works scored for it; 1.00 is the world average for works of the same field, type and year. 3 of the 21 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 27

1. Mohammed Abdul Rasheed, Lawrence Owusu Opoku, **Joseph Apau**, Francis Opoku (2026). Strain-engineered type II SiC/Al2OS van der waals heterostructure with efficient charge separation for photocatalytic water splitting. *International Journal of Hydrogen Energy*. https://doi.org/10.1016/j.ijhydene.2026.155999
2. Akwasi Acheampong, Kofi Sarpong, Osei Akoto, **Joseph Apau**, Godfred Darko (2024). Health Risk Assessments of Potentially Toxic Elements in Selected Medicinal Plants from the Ashanti Region of Ghana. *Chemistry Africa*. https://doi.org/10.1007/s42250-024-01076-0
3. Jonathan Osei-Owusu, William K. Heve, Rahmat Quaigrane Duker, Owusu Fordjour Aidoo, Lloyd Larbi, George Edusei, Maxwell Jnr Opoku, Rosemary Anderson Akolaa, Fatima Eshun, **Joseph Apau**, Kodwo Dadzie Ninsin (2023). Assessments of microbial and heavy metal contaminations in water supply systems at the University of Environment and Sustainable Development in Ghana. *Sustainable Chemistry for the Environment*. https://doi.org/10.1016/j.scenv.2023.100015
4. Jonathan Osei-Owusu, Kwabena Boakye Kokro, Andrew Ofori, **Joseph Apau**, Aboagye Kwarteng Dofuor, Bright Yaw Vigbedor, Albert Aniagyei, Ralph Kwakye, George Edusei, Boniface Yeboah Antwi, Harry Okyere (2023). Evaluation of phytochemical, proximate, antioxidant, and anti-nutrient properties of Corchorus olitorius, Solanum macrocarpon and Amaranthus cruentus in Ghana. *PubMed*.
5. Jonathan Osei-Owusu, William K. Heve, Owusu Fordjour Aidoo, Maxwell Jnr Opoku, **Joseph Apau**, Kodwo Ninsin Dadzie, Bright Yaw Vigbedor, Kwaafo Akoto Awuah-Mensah, Margaret Appiah, Akwasi Acheampong, Michael Birkett, Antony Hooper (2023). Repellency Potential, Chemical Constituents of Ocimum Plant Essential Oils, and Their Headspace Volatiles against Anopheles gambiae s. s., Malaria Vector. *Journal of Chemistry*. https://doi.org/10.1155/2023/3848998
6. **Joseph Apau**, David Osei Tutu Coffie, Osei Akoto, Jonathan Osei-Owusu, Opoku Gyamfi, Godfred Owusu Boateng (2023). Seasonal Variation in Water Quality of River Subin in Kumasi. *Chemistry Africa*. https://doi.org/10.1007/s42250-023-00637-z
7. Osei Akoto, Ampomah Samuel, Larbi Gladys, Osei Addae Agyekumwaa Sarah, **Joseph Apau**, Francis Opoku (2022). Assessment of groundwater quality from some hostels around Kwame Nkrumah

University of Science and Technology. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01361

8. **Joseph Apau**, Margaret Ohui Siameh, Jemima Adwoa Misszento, Opoku Gyamfi, Jonathan Osei-Owusu, Edward Ebow Kwaansa-Ansah, Akwasi Acheampong (2022). Determination of potentially toxic elements in selected vegetables sampled from some markets in the Kumasi metropolis. *Cogent Public Health*. https://doi.org/10.1080/27707571.2022.2145699
9. **Joseph Apau**, Jonathan Osei-Owusu, Angela Yeboah, Opoku Gyamfi, Godfred Darko, Osei Akoto, Matt Dodd (2021). Distribution of heavy metals in sediments, physicochemical and microbial parameters of water from River Subin of Kumasi Metropolis in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e01074
10. **Joseph Apau**, Wilfred Sefah, Eric Adua (2020). Human contact with phthalates during early life stages leads to weight gain and obesity. *Cogent Chemistry*. https://doi.org/10.1080/23312009.2020.1815273
11. Osei Akoto, Nesta Bortey-Sam, Shouta M.M. Nakayama, Yoshinori Ikenaka, Elvis Baidoo, **Joseph Apau**, Jemima Tiwaa Marfo, Mayumi Ishizuka (2018). Characterization, Spatial Variation and Risk Assessment of Heavy Metals and a Metalloid in Surface Soils in Obuasi, Ghana. *Journal of Health and Pollution*. https://doi.org/10.5696/2156-9614-8.19.180902
12. Akwasi Acheampong, Albert Gyebi, Godfred Darko, **Joseph Apau**, Wilfred Owusu Gyasi, Sylvester Addai-Arhin (2018). Development and validation of RP-HPLC method for simultaneous estimation of sulfadoxine and pyrimethamine in tablet dosage form using diclofenac as internal standard. *Cogent Chemistry*. https://doi.org/10.1080/23312009.2018.1472198
13. **Joseph Apau**, Akwasi Acheampong, Eric Adua (2018). Exposure to bisphenol A, bisphenol F, and bisphenol S can result in obesity in human body. *Cogent Chemistry*. https://doi.org/10.1080/23312009.2018.1506601
14. Akwasi Acheampong, Wilfred Owusu Gyasi, Godfred Darko, **Joseph Apau**, Sylvester Addai-Arhin (2016). Validated RP-HPLC method for simultaneous determination and quantification of chlorpheniramine maleate, paracetamol and caffeine in tablet formulation. *SpringerPlus*. https://doi.org/10.1186/s40064-016-2241-2
15. A Acheampong, **J Apau** (2015). Development and validation of a RP-HPLC method with PDA detection for the simultaneous estimation of acetylsalicylic acid, paracetamol and caffeine in fixed dose combination …. *Int J Chem Biomol Sci*. https://scholar.google.com/scholar?cluster=5137487104287861474&hl=en&oi=scholarr
16. Osei Akoto, Sandra Gavor, Martin K. Appah, **Joseph Apau** (2015). Estimation of human health risk associated with the consumption of pesticide-contaminated vegetables from Kumasi, Ghana. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-015-4471-0
17. Osei Akoto, Divine Addo, Elvis Baidoo, Eric A. Agyapong, **Joseph Apau**, Bernard Fei-Baffoe (2015). Heavy metal accumulation in untreated wastewater-irrigated soil and lettuce (Lactuca sativa). *Environmental Earth Sciences*. https://doi.org/10.1007/s12665-015-4640-z
18. **J Apau**, A Acheampong, O Akoto (2015). Physicochemical and microbial analysis of water from selected hand-dug wells in Ayeduase, Kumasi. *Int J f Chem Biomolec Sci*. https://scholar.google.com/scholar?cluster=19043993390519215 35&hl=en&oi=scholarr
19. Akwasi Acheampong, Godfred Darko, **Joseph Apau**, Adolf Oti-Boakye (2014). Assessment of Mercury Levels in Omega-3 Food Supplements Available on the Ghanaian Market.
20. **J Apau**, HK Agbovi, DD Wemegah (2014). Assessment of the water quality of boreholes in the Aburi municipality of eastern region of Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v33i3.9
21. **J Apau**, A Acheampong (2014). Levels and health risk assessment of heavy metals in tubers from markets in the Kumasi metropolis, Ghana. *Int J Sci Technol*. https://www.academia.edu/download/55145276/Heavy_metals_in_tubers_publication.pdf
22. **J Apau**, A Acheampong (2014). Physicochemical and microbial parameters of water from hand-dug wells from Nyamebekyere, a surburb of Obuasi, Ghana. *Int J Sci Technol*. https://scholar.google.com/scholar?

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23. **J Apau** (2014). Speciation of arsenic in drinking water at Amansie West District. *International Jouirnal of Development and Sustainability*. https://www.academia.edu/download/106684952/ijds-v3n3-2.pdf
24. **Joseph Apau** (2014). The State-Backed oil company in Nigeria's petroleum economy: Evolution, dilemmas and paradoxes. *International Journal of Development and Sustainability*. https://isdsnet.com/ijds-v3n3-1.pdf
25. **J Apau**, SK Appiah, M Marmon-Halm (2012). Assessment of Water Quality Parameters of Kpeshie Lagoon of Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v32i1.4
26. **J Apau**, DK Dodoo (2011). Lindane and propoxur residues in cocoa from Central region of Ghana. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v30i3.64624
27. O Akoto, T Wi-Afedzi, G Aidoo, **J Apau** (2010). Evaluation of Water from Bokro Stream for Irrigation and Its Effect on Soil. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v30i2.60534