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RESEARCH

Interests	Environmental Chemistry and Toxicology
Areas	Pollution · Health, Toxicology and Mutagenesis · Water Science and Technology · Radiological and Ultrasound Technology · Artificial Intelligence · Materials Chemistry

RESEARCH SUMMARY

140	5,518	35	80	3.46	27%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 140 publications listed below, 1999–2026. Field-weighted impact is the mean over the 100 works scored for it; 1.00 is the world average for works of the same field, type and year. 27 of the 100 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Kwame Nkrumah University of Science and Technology
Chemistry Department, Kumasi, Ghana

PUBLICATIONS

Journal articles 136

1. Lilian Sarpong, James Kwame Kusi, Daniel Lamptey Kozah, **Osei Akoto** (2026). Comparative Analysis of Airborne Atrazine and Associated Health Risks in Urban and Rural Communities in Ghana. *Chemistry Africa*. https://doi.org/10.1007/s42250-026-01628-6
2. Paul Appiah Sekyere, David Azanu, **Osei Akoto** (2026). Comparative evaluation of composting and solarization techniques for mitigating antibiotic residues, and resistance genes in poultry manure. *Scientific African*. https://doi.org/10.1016/j.sciaf.2026.e03228
3. Paul Appiah Sekyere, David Azanu, **Osei Akoto** (2026). Microbial sensitivity and ecological risk of veterinary antibiotics in poultry waste from Ghanaian farms. *Next research*.. https://doi.org/10.1016/j.nexres.2026.101640
4. Paul Appiah Sekyere, David Azanu, **Osei Akoto**, Vivian Etsiapa Boamah, Lyndon N. A. Sackey, Charles K. Sekyere, Jonathan N. Hogarh, R. C. Abaidoo (2026). Quantification of Veterinary Antibiotics and Antibiotics Resistant Bacteria in Poultry Droppings. *Journal of Chemistry*. https://doi.org/10.1155/joch/5407152
5. J.K. Kusi, G. Foli, M.Y. Peasah, **O. Akoto** (2025). Acid mine drainage and metal leaching potential of a waste rock dump. *International Journal of Mining and Mineral Engineering*. https://doi.org/10.1504/ijmme.2025.148701
6. **OY Akoto** (2025). Deontic Obligations in Anti-Sexual Harassment Policies in Tertiary Institutions: A Corpus-Assisted Critical Discourse Approach. *Journal of Language and Literature*. https://e-journal.usd.ac.id/index.php/JOLL/article/view/12372
7. Lilian Sarpong, Nathaniel Owusu Boadi, **Osei Akoto** (2025). Ecological and public health estimations of potentially toxic elements in soils from an abandoned dumpsite in a tropical climatic zone. *International*

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9. Collins NIMAKO, **Osei AKOTO**, Nathaniel BOADI, Prince OFORI, Yared B. YOHANNES, Shouta M.M. NAKAYAMA, Yoshinori IKENAKA, Mayumi ISHIZUKA (2025). Exploring the intricacies of indoor dust pollution from neonicotinoid insecticides and its human health impacts: An exemplar from eleven agricultural communities in Ghana, West Africa. *Journal of Hazardous Materials*. https://doi.org/10.1016/j.jhazmat.2025.140172
10. Jonathan Awewomom, Theresa Yvonne Arhin, Yaw Doudu Takyi, Agyei Gyasi Yaw, Janet Saaka, Francis Opoku, Marina Aferiba Tandoh, Emmanuel Adu Amankwah, **Osei Akoto** (2025). Exposure and Health Impact Assessment of Essential and Non-essential Elements in Rice Sold on Ghanaian Markets. *Environmental Health Insights*. https://doi.org/10.1177/11786302251350482
11. ES Afreh, **OY Akoto**, K Sarfo-Adu (2025). Informality in Ghanaian postgraduate theses: A cross-disciplinary perspective. *Journal of Languages for Specific Purposes (JLSP)*. https://www.academia.edu/download/121838338/JLSP12_March2025.pdf#page=127
12. J. K. Dadson, N. Y. Asiedu, J. A. Iggo, L. Konstantin, J. Ackora-Pra, M. F. Baidoo, **O. Akoto** (2024). A proposed two-level classification approach for forensic detection of diesel adulteration using NMR spectroscopy and machine learning. *Analytical and Bioanalytical Chemistry*. https://doi.org/10.1007/s00216-024-05384-9
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14. Jonathan Awewomom, Felicia Dzeble, Yaw Doudu Takyi, Winfred Bediakoh Ashie, Emil Nana Yaw Osei Ettey, Patricia Eyram Afua, Lyndon N. A. Sackey, Francis Opoku, **Osei Akoto** (2024). Addressing global environmental pollution using environmental control techniques: a focus on environmental policy and preventive environmental management. *Discover Environment*. https://doi.org/10.1007/s44274-024-00033-5
15. Winfred Bediakoh Ashie, Jonathan Awewomom, Emil Nana Yaw Osei Ettey, Francis Opoku, **Osei Akoto** (2024). Assessment of irrigation water quality for vegetable farming in peri-urban Kumasi. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e24913
16. L. Sarpong, N. O. Boadi, C. Nimako, N. Bortey–Sam, **O. Akoto** (2024). Contamination, health risk assessment, and spatial distribution of heavy metals in soils from gold mining district, Ghana. *International Journal of Environmental Science and Technology*. https://doi.org/10.1007/s13762-024-06173-8
17. **Osei Akoto** (2024). Correction to: Addressing global environmental pollution using environmental control techniques: a focus on environmental policy and preventive environmental management …. *Discover Environment*. https://pure.uj.ac.za/en/publications/correction-to-addressing-global-environmental-pollution-using-env/
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20. J.K. Kusi, G. Foli, M.Y. Peasah, **O. Akoto** (2024). Geochemical characterization of waste rock dump and its potential to predict acid mine drainage. *Scientific African*. https://doi.org/10.1016/j.sciaf.2024.e02350
21. 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

22. Yaw Doudu Takyi, Jonathan Awewomom, Samuel Selorm Attu, **Osei Akoto**, Marina Aferiba Tandoh (2024). Health risk assessment and comparative study on heavy metal levels in indigenous cereal-legume blends (CLBs) on Ghanaian markets. *Cogent Food & Agriculture*. https://doi.org/10.1080/23311932.2024.2404690

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24. Jackson Adiyiah Nyantakyi, Samuel Wiafe, Osman Fusen Yong, **Osei Akoto** (2024). Land Use Contributions to Heavy Metals/Metaloids Pollution in the Tano Basin, Ghana, and Its Associated Health Risks to Dependant Communities. *Applied and Environmental Soil Science*. https://doi.org/10.1155/2024/9469066

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30. **Osei Akoto** (2023). CULTURE MATTERS: DESIGNING AND DELIVERING A FRENCH FOR SPECIFIC PURPOSES (FSP) COURSE FOR THE MEDICAL SOFTWARE SECTOR IN BELGIUM. *Journal of Languages for Specific Purposes*. http://jlsp.steconomiceuoradea.ro/archives/010/1.pdf

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