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RESEARCH

Areas: Waste Management and Disposal · Nutrition and Dietetics · Water Science and Technology · Ocean Engineering · Pollution · Urban Studies

RESEARCH SUMMARY

77	1,311	20	38	1.40	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 77 publications listed below, 2006–2026. Field-weighted impact is the mean over the 77 works scored for it; 1.00 is the world average for works of the same field, type and year. 11 of the 77 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Full Professor
Department of Civil Engineering, Kwame Nkrumah University of Science and Technology Kumasi, Kumasi, Ghana

PUBLICATIONS

Journal articles 73

1. Richard Komla Nyamador, Patrick Boakye, **Sampson Oduro-Kwarteng**, Esi Awuah, Richard Akwasi Buamah (2026). Adsorption of arsenic from gold mine wastewater onto iron oxide-coated sand and activated chars pyrolysed by the traditional-charcoal-production method. *Asian Journal of Water Environment and Pollution*. https://doi.org/10.36922/ajwep026180121
2. Anthony Boakye Antwi, Nana Yaa Korankyewa-Ayim, Josephine Paule Amelan Kouassi, **Sampson Oduro-Kwarteng**, Jacob Alhassan Hamidu, Goodman Sarfo Kantanka, Patrick Boakye, Herman Erick Lutterodt (2026). Efficacy of food waste amended feed on sustainable broiler production. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v44i2.2
3. Richard Komla Nyamador, Patrick Boakye, **Sampson Oduro-Kwarteng**, Esi Awuah (2026). Ghana's mining legislation: An overview of how the small-scale and large-scale mining environment-related regulations compare. *Journal of Environmental Management*. https://doi.org/10.1016/j.jenvman.2025.128503
4. Gideon Nunoo, Patrick Boakye, Miriam Appiah-Brempong, Selom Kwame Broni, Felix Kojo Okoe, Setordzi Gameli Agbe, Kwame Sarkodie, Ilham Ku-nwa Hamid, **Sampson Oduro-Kwarteng** (2026). Pyrolysis of faecal waste for energy and agronomic applications: Resource recovery approach. *Bioresource Technology Reports*. https://doi.org/10.1016/j.biteb.2026.102780
5. Gideon Nunoo, Miriam Appiah-Brempong, Patrick Boakye, Mary Ann Nunoo, **Sampson Oduro-Kwarteng** (2026). Valorisation of faecal waste via co-composting with its biochar derivatives: Process performance and compost quality. *Bioresource Technology Reports*. https://doi.org/10.1016/j.biteb.2026.103080
6. Vivien Chikogu AMESO, **Sampson ODURO-KWARTENG**, Donatus Obiajulu ONWUEGBUNAM, Ezra Lekwot VIVAN, Andesikuteb Yakubu ALI, Timothy Terna MANDE (2025). Evaluation of pollutant removal kinetics for greywater treatment in horizontal free surface flow constructed wetland. *Journal of Applied Life Sciences and Environment*. https://doi.org/10.46909/alse-583189

7. Joseph Patrick Mensah, **Sampson Oduro-Kwarteng**, Kodwo Miezah, Patrick Boakye, Benneta Koomson (2025). Health risks from persistent heavy metal contamination in crops and water at an abandoned naturally revegetated galamsey site in Ghana. *Scientific Reports*. https://doi.org/10.1038/s41598-025-17149-0

8. Panin Asirifua Obeng, Emmanuel Amponsah Donkor, Eric Awere, **Sampson Oduro-Kwarteng**, Esi Awuah, Peter Appiah Obeng (2025). The emergence of prefabricated VIP toilet seats with covers: The implication for odour control and potential improvement. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2025.239

9. Panin Asirifua Obeng, Emmanuel Amponsah Donkor, Eric Awere, **Sampson Oduro-Kwarteng**, Esi Awuah, Peter Appiah Obeng (2025). Understanding why Ghanaian informally trained artisans construct the ventilated improved pit latrine the way they do. *Water Practice & Technology*. https://doi.org/10.2166/wpt.2025.151

10. Rita Namoe Tabi, Patrick Boakye, Frank Ofori Agyemang, Edward Ndumiso Nxumalo, **Sampson Oduro-Kwarteng** (2024). A review of spiral wound membrane modules and processes for groundwater treatment. *Frontiers in Membrane Science and Technology*. https://doi.org/10.3389/frmst.2024.1343651

11. Blissbern Appiagyei Osei-Owusu, Richard Arthur, Martina Francisca Baidoo, **Sampson Oduro-Kwarteng**, Andrew N. Amenaghawon (2024). Anaerobic co-digestion of human excreta, food leftovers and kitchen residue: 1 ternary mixture design, synergistic effects and RSM approach. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e24080

12. Rita Namoe Tabi, Abass Gibrilla, Patrick Boakye, Frank Ofori Agyemang, Antoinette Akosua Foaah, **Sampson Oduro-Kwarteng** (2024). Appraisal of groundwater quality and hydrochemistry in three regions of Ghana: Implications for drinking purposes. *Groundwater for Sustainable Development*. https://doi.org/10.1016/j.gsd.2024.101193

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14. Priscilla Addo, Samuel Fosu-Gyasi, **Sampson Oduro-Kwarteng**, Godwin Armstrong Duku, Esi Awuah (2023). Assessing egg deposition behaviour of female black soldier fly (Hermetia: Illucens) in Kumasi, Ghana using MOSW as bait. *Journal of Asia-Pacific Entomology*. https://doi.org/10.1016/j.aspen.2023.102168

15. Samuel Yaw Agyemang-Badu, Esi Awuah, **Sampson Oduro-Kwarteng**, Justice Yao Woelinam Dzamesi, Simon Agongo Azure (2023). Assessment of the Knowledge, Prevalence, and Control Strategies of Malaria Among Households in Sunyani Municipality, Bono Region, Ghana. *Environmental Health Insights*. https://doi.org/10.1177/11786302231176922

16. Prince Asilevi Junior, Felicia Dogbey, Patrick Boakye, Jeffrey Nii Armah Aryee, Edmund Ilimoan Yamba, Stephen Yaw Owusu, David Kofi Peprah, Emmanuel Quansah, Nana Ama Browne Klutse, John Kwesi Bentum, Kwaku Amaning Adjei, Geophrey Kwame Anornu, **Sampson Oduro-Kwarteng**, Leonard Kofitse Amekudzi (2023). Bias-corrected NASA data for aridity index estimation over tropical climates in Ghana, West Africa. *Journal of Hydrology Regional Studies*. https://doi.org/10.1016/j.ejrh.2023.101610

17. Issahaku Ahmed, Esi Awuah, Helen M. K. Essandoh, **Sampson Oduro-Kwarteng**, Dennis Ofori-Amanfo, Florence Cobbold, Joshua Oduro-Adu (2023). Development, Characterisation, and Performance Evaluation of Some Indigenous Plants for Faecal Sludge Treatment in Ghana. *International Journal of Polymer Science*. https://doi.org/10.1155/2023/7470378

18. Samuel Yaw Agyemang-Badu, Esi Awuah, **Sampson Oduro-Kwarteng**, Justice Yao Woelinam Dzamesi, Nazri Che Dom, Girum Gebremeskel Kanno (2023). Environmental Management and Sanitation as a Malaria Vector Control Strategy: A Qualitative Cross-Sectional Study Among Stakeholders, Sunyani Municipality, Ghana. *Environmental Health Insights*. https://doi.org/10.1177/11786302221146890

19. Gloria Addae, **Sampson Oduro-Kwarteng**, Bernard Fei-Baffoe, Mizpah Ama Dziedzorm Rockson, Edward Antwi, Joseph Xavier Francisco Ribeiro (2023). Patterns of waste collection: A time series model for

market waste forecasting in the Kumasi Metropolis, Ghana. *Cleaner Waste Systems*. https://doi.org/10.1016/j.clwas.2023.100086

20. Issahaku Ahmed, Esi Awuah, Helen M. K. Essandoh, **Sampson Oduro-Kwarteng**, Dennis Ofori-Amanfo, Florence Cobbold (2023). Performance Evaluation of Dry Faecal Sludge-Derived Activated Carbon (DFSAC) for Wastewater Pollutant Removal: A Case Study of the Lavender Hill Faecal Treatment Plant. *Advances in Materials Science and Engineering*. https://doi.org/10.1155/2023/4883492
21. Blissbern Appiagyei Osei-Owusu, Martina Francisca Baidoo, Richard Arthur, **Sampson Oduro-Kwarteng** (2023). Physico-chemical characterization of selected feedstocks as co-substrates for household biogas generation in Ghana. *International Journal of Sustainable Engineering*. https://doi.org/10.1080/19397038.2023.2214167
22. Patrick Boakye, Miriam Beneireh Nuagah, **Sampson Oduro-Kwarteng**, Eugene Appiah-Effah, Jolly Kanjua, Anthony Boakye Antwi, Lawrence Darkwah, Kwame Sarkodie, Yen Adams Sokama-Neuyam (2023). Pyrolysis of municipal food waste: A sustainable potential approach for solid food waste management and organic crop fertilizer production. *Sustainable Environment*. https://doi.org/10.1080/27658511.2023.2260057
23. Frederick Owusu-Nimo, Bernadette Agbefu, **Sampson Oduro-Kwarteng** (2023). Resource recovery potential of Kumasi landfill waste. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i3.65
24. Noel Bakobie, Helen M.K. Essandoh, **Sampson Oduro-Kwarteng**, Emmanuel Kwame Appiah-Adjei, Shaikh Ziauddin Ahammad, Sumedha Chakma (2023). Self-supply groundwater in five communities: Moshie Zongo, Aboabo, Kotei, Ayeduase and Apemso in Kumasi Metropolis, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e23823
25. Francis Adu-Boahene, Patrick Boakye, Frank Ofori Agyemang, Jolly Kanjua, **Sampson Oduro-Kwarteng** (2023). Understanding fluoride adsorption from groundwater by alumina modified with alum using PHREEQC surface complexation model. *Scientific Reports*. https://doi.org/10.1038/s41598-023-38564-1
26. Panin Asirifua Obeng, Emmanuel Amponsah Donkor, Eric Awere, Peter Appiah Obeng, **Sampson Oduro-Kwarteng**, Esi Awuah (2023). ventilated improved pit latrine: a theoretical evaluation of conventional design guidelines, user adaptations and prospects for improvement. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v23i1.48
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28. Priscilla Addo, **Sampson Oduro-Kwarteng**, Samuel Gyasi, Esi Awuah (2022). Bioconversion of municipal organic solid waste in to compost using Black Soldier Fly (Hermetia Illucens). *DOAJ (DOAJ: Directory of Open Access Journals)*. https://doi.org/10.30486/ijrowa.2022.1939781.1333
29. Wilhemina Asare, **Sampson Oduro–Kwarteng**, Emmanuel A. Donkor, Mizpah A.D. Rockson (2022). Cost-effectiveness of incentive schemes for waste material resource recovery. *Cleaner Waste Systems*. https://doi.org/10.1016/j.clwas.2022.100019
30. John Nkansah, **Samson Oduro-Kwarteng**, Helen Essandoh, Richard Kuffuor (2022). Enhancing food waste compost quality with nutrient amendments. *DOAJ (DOAJ: Directory of Open Access Journals)*. https://doi.org/10.30486/ijrowa.2021.1901356.1121
31. George Lutterodt, Abass Gibrilla, Francis Andorful, Samuel Ganyaglo, **Sampson Oduro-Kwarteng** (2022). Influence of on-site sanitation on groundwater quality from large diameter wells. *Groundwater for Sustainable Development*. https://doi.org/10.1016/j.gsd.2022.100862
32. Rose Boahemaa Pinto, **Sampson Oduro-Kwarteng**, Jacob Alhassan Hamidu, Helen Michelle Korkor Essandoh (2022). Sensitivity of nutritional and microbial content of food wastes to drying technologies. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01130
33. Patrick Boakye, Godfred Ohemeng-Boahen, Lawrence Darkwah, Yen Adams Sokama-Neuyam, Eugene Appiah-Effah, **Sampson Oduro-Kwarteng**, Barnabas Asamoah Osei, Prince Junior Asilevi, Seung Han Woo

(2022). Waste Biomass and Biomaterials Adsorbents for Wastewater Treatment. *Green Energy and Environmental Technology*. https://doi.org/10.5772/geet.05

34. Michael Nyame Acquah, Helen Michelle Korkor Essandoh, **Sampson Oduro-Kwarteng**, Eugene Appiah-Effah, Peter Antwi Owusu (2021). Degradation and accumulation rates of fresh human excreta during vermicomposting by Eisenia fetida and Eudrilus eugeniae. *Journal of Environmental Management*. https://doi.org/10.1016/j.jenvman.2021.112817

35. **Sampson Oduro-Kwarteng**, Ransford Addai, Helen M.K. Essandoh (2021). Healthcare waste characteristics and management in Kumasi, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00784

36. Wilhemina Asare, **Sampson Oduro-Kwarteng**, Emmanuel A. Donkor, Mizpah A. D. Rockson (2021). Incentives for improving municipal solid waste source separation behaviour: the case of Tamale Metropolis, Ghana. *SN Social Sciences*. https://doi.org/10.1007/s43545-021-00139-0

37. Prince Junior Asilevi, Patrick Boakye, **Sampson Oduro-Kwarteng**, Bernard Fei-Baffoe, Yen Adams Sokama-Neuyam (2021). Indoor air quality improvement and purification by atmospheric pressure Non-Thermal Plasma (NTP). *Scientific Reports*. https://doi.org/10.1038/s41598-021-02276-1

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40. Isaac Enyemadze, Francis W. Y. Momade, **Sampson Oduro-Kwarteng**, Helen Essandoh (2021). Phosphorus recovery by struvite precipitation: a review of the impact of calcium on struvite quality. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2021.078

41. Yen A. Sokama-Neuyam, Wilberforce N. Aggrey, Patrick Boakye, Kwame Sarkodie, **Sampson Oduro-Kwarteng**, Jann R. Ursin (2021). The effect of temperature on CO2 injectivity in sandstone reservoirs. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e01066

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43. Prince Asilevi Junior, Daniel Akambawe, Chengwu Yu, Jue Li, Patrick Boakye, **Sampson Oduro-Kwarteng**, Muhammad Imran Nawaz (2020). Research on the electrical characteristics of atmospheric strong ionization dielectric barrier discharge for air pollution control. *Maejo International Journal of Energy and Environmental Communication*. https://doi.org/10.54279/mijeec.v2i1.244953

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45. D. Sarpong, **S. Oduro-Kwarteng**, S. F. Gyasi, R. Buamah, E. Donkor, E. Awuah, M. K. Baah (2019). Biodegradation by composting of municipal organic solid waste into organic fertilizer using the black soldier fly (Hermetia illucens) (Diptera: Stratiomyidae) larvae. *International Journal Of Recycling of Organic Waste in Agriculture*. https://doi.org/10.1007/s40093-019-0268-4

46. Frederick Owusu-Nimo, **Sampson Oduro-Kwarteng**, Hellen Essandoh, Farida Wayo, Mohammed Shamudeen (2019). Characteristics and management of landfill solid waste in Kumasi, Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2019.e00052

47. Alhassan Sulemana, Emmanuel Amponsah Donkor, Eric Kwabena Forkuo, **Sampson Oduro-Kwarteng** (2019). Effect of optimal routing on travel distance, travel time and fuel consumption of waste collection trucks. *Management of Environmental Quality An International Journal*. https://doi.org/10.1108/meq-07-2018-0134

48. Peter A. Obeng, **Sampson Oduro-Kwarteng**, Bernard Keraita, Henrik Bregnhøj, Robert C. Abaidoo, Esi Awuah, Flemming Konradsen (2019). Redesigning the ventilated improved pit latrine for use in built-up low-income settings. *Journal of Water Sanitation and Hygiene for Development*. https://doi.org/10.2166/washdev.2019.098

49. Alhassan Sulemana, Emmanuel Amponsah Donkor, **Sampson Oduro-Kwarteng** (2018). Cost drivers and functions for municipal solid waste collection systems in Ghana. *International Journal of Engineering & Technology*. https://doi.org/10.14419/ijet.v7i3.8852

50. A Seghosime, A Ebeigbe, **S Oduro-Kwarteng**, R Buamah, O Oriakhi, J Awudza (2018). Effect of Sodium Chloride Extract of Dacryodes edulis and Chrysophyllum albidum Seeds on Enteric Pathogens. *Annual Research & Review in Biology*. https://doi.org/10.9734/arrb/2018/39194

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52. Alhassan Sulemana, Emmanuel A. Donkor, Eric K. Forkuo, **Sampson Oduro-Kwarteng** (2018). Optimal Routing of Solid Waste Collection Trucks: A Review of Methods. *Journal of Engineering*. https://doi.org/10.1155/2018/4586376

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55. Animetu Seghosime, Johannes Akpabla Mawuli Awudza, Richard Buamah, **Sampson Oduro Kwarteng** (2017). Comparative Studies on Proximate Composition and Phytochemical Screening of Mango, Key lime, African star apple and African pear Seeds as Possible Coagulant Aids for Water Treatment. *American Journal of Environmental Sciences*. https://doi.org/10.3844/ajessp.2017.325.333

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57. **Sampson Oduro Kwarteng**, Meine Pieter Van Dijk (2017). Regulatory environment for private sector involvement in solid waste collection in Ghana. *International Journal of Environment and Waste Management*. https://doi.org/10.1504/ijewm.2017.10006944

58. Kwabena Biritwum Nyarko, **Sampson Oduro Kwarteng**, Bismark Dwumfour Asare, Kwaku Opoku Boakye (2016). Incentives for water supply to the urban poor and the role of the regulator in Ghana. *International Journal of Water*. https://doi.org/10.1504/ijw.2016.075572

59. Herry Rachmadyanto, Meine Pieter Van Dijk, **Sampson Oduro Kwarteng** (2016). Mapping pro-poor water supply services: what are the technical and institutional options for the utility and private provision in Accra? *International Journal of Water*. https://doi.org/10.1504/ijw.2016.075571

60. Peter Appiah Obeng, **Sampson Oduro-Kwarteng**, Bernard Keraita, Henrik Bregnhøj, Robert C Abaidoo, Esi Awuah, Flemming Konradsen (2016). Measurement of Odour in On-Site Sanitation Systems in Low-Income Settings. *Environmental Processes*. https://doi.org/10.1007/s40710-016-0124-8

61. Kobina Afful, **Sampson Oduro-Kwarteng**, Eric Ofosu Antwi, Esi Awuah (2016). Odour Impact Determination of a Communal Toilet: Field Measurement with Panellists Using Dynamic Plume Method and Dispersion Modelling. *Open Journal of Air Pollution*. https://doi.org/10.4236/ojap.2016.51001

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Book chapters 4

1. Nana Yaa Korankyewa Ayim, **Sampson Oduro Kwarteng**, Jacob Alhassan Hamidu (2025). Toxicity, Nutritional Quality, and Microbial Loads of Source-Separated Dried Food Waste as Poultry Feed. *World sustainability series*. https://doi.org/10.1007/978-3-031-87043-9_2

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3. **Sampson Oduro-Kwarteng**, Meine Pieter van Dijk, Kafui Afi Ocloo (2017). CHAPTER 6: Governance and sustainable solid waste management in Ghana. https://doi.org/10.3362/9781780449685.006

4. Peter Appiah Obeng, **Sampson Oduro-Kwarteng**, Bernard Keraita, Henrik Bregnhøj, Robert C. Abaidoo, Esi Awuah, Flemming Konradsen (2015). On-Site Sanitation Systems for Low-Income Countries. *Practice, progress, and proficiency in sustainability*. https://doi.org/10.4018/978-1-4666-9559-7.ch014