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RESEARCH

Interests	Waste Management · Environmental Science · Environmental Engineering
Areas	Waste Management and Disposal · Pollution · Soil Science · Building and Construction · Public Health, Environmental and Occupational Health · Biomedical Engineering

RESEARCH SUMMARY

35	1,018	13	15	3.98	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 35 publications listed below, 2008–2026. 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. 4 of the 29 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 33

1. Ebenezer Ebo Yahans Amuah, Bernard Fei-Baffoe, **Kodwo Miezah**, Yaw Amo Sarpong, Kwasi Obiri-Danso (2026). Composting as a catalyst for soil health and sustainability: A trend review. *Next research*.. https://doi.org/10.1016/j.nexres.2026.101478
2. David Kabutey Akuaku, **Kodwo Miezah**, Shadrack Kwadwo Amponsah, Jerome Dela Lavie, Francis Kemausuor (2026). Composting dynamics and quality Characterization of cocoa husk Biochar–Based organic fertilizer. *Waste Management Bulletin*. https://doi.org/10.1016/j.wmb.2026.100312
3. Ebenezer Ebo Yahans Amuah, Bernard Fei-Baffoe, **Kodwo Miezah**, Yaw Amo Sarpong, Kwasi Obiri-Danso, Lyndon Nii Adjiri Sackey, Raymond Webrah Kazapoe (2026). Multidimensional modelling of compost quality integrating nutrient dynamics, energetics and pathogen inactivation. *Results in Engineering*. https://doi.org/10.1016/j.rineng.2026.109821
4. Dzifa Nugloze, Richard Kingsley Padi, Moses Mensah, Felix Offei, Ato Fanyin-Martin, **Kodwo Miezah**, Imoro Zarouk, Israel Acheampong, Elvis Owusu-Adansi Junior, Collins S. Hevi, Lyndon Nii Adjiri Sackey, Ebenezer Ebo Yahans Amuah (2026). Thermochemical characterisation of landfill municipal solid waste for energy recovery applications. *Results in Engineering*. https://doi.org/10.1016/j.rineng.2026.110521
5. Boakye Acheampong, **Kodwo Miezah**, Henry Tuffour, Enoch Bessah, Benedicta Essel Ayamba, Francis Kemausour (2025). Decomposition and Nutrient Release Dynamics of Compost: A Comparative Study With Mesophilic and Thermophilic Temperatures. *International Journal of Agronomy*. https://doi.org/10.1155/ioa/6807835
6. Andrews Ayim Oduro, Wisdom Selassie Seaneye, **Kodwo Miezah**, Willliam Wilson Anku, Eric Selorm Agorku (2025). Defluorination of borehole water using activated clay and bauxite-laden polyvinyl alcohol hybrid membranes. *RSC Applied Polymers*. https://doi.org/10.1039/d5lp00188a
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. Emma Kofua Nsafoah, Cindy Yaa Gyeniaw, Alhassan Sulemana, Bernard Fei-Baffoe, David Azanu, **Kodwo Miezah**, Kofi Sekyere Boateng, Daniel Nimako Amprako, Jonathan Nartey Hogarh, Kwame Ohene Buabeng (2025). Relationship Between Physicochemical Parameters and Risk of Analgesics and Antibiotics of Effluents From Three Selected Hospitals in Kumasi Metropolis, Ghana. *The Scientific World JOURNAL*. https://doi.org/10.1155/tswj/2891425

9. Ebenezer Ebo Yahans Amuah, Bernard Fei-Baffoe, **Kodwo Miezah**, Yaw Amo Sarpong, Kwasi Obiri-Danso (2025). Synergistic assessment of compost quality using a multifaceted approaches and machine learning: A research protocol. *Results in Engineering*. https://doi.org/10.1016/j.rineng.2025.105786

10. Richard Osei Ampong, **Kodwo Miezah**, Albert Banunle, Ebenezer Ebo Yahans Amuah, Ebenezer Gyampoh Amoah (2024). Comparative analysis of the effectiveness and efficiency of formal and informal waste collectors in urban waste management system. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e39017

11. Bernard Fei-Baffoe, Esther Badu, **Kwodwo Miezah**, Lyndon Nii Adjiri Sackey, Alhassan Sulemana, Ebenezer Ebo Yahans Amuah (2024). Contamination of groundwater by petroleum hydrocarbons: Impact of fuel stations in residential areas. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e25924

12. LNA Sackey, **K Miezah** (2024). Production of bioethanol from plantain and yam peels using Aspergillus niger and Saccharomyces cerevisiae. *Biomass Conversion and Biorefinery*.

13. Boakye Acheampong, **Kodwo Miezah**, Enoch Bessah, Benedicta Essel Ayamba, Francis Kemausour (2024). Split Addition of Nitrogen-Rich Substrate at Thermophilic and Mesophilic Stages of Composting: Effect on Green House Gases Emission and Quality of Compost. *Open Journal of Soil Science*. https://doi.org/10.4236/ojss.2024.142008

14. Bernard Fei-Baffoe, Ebenezer Ebo Yahans Amuah, Ebenezer Laryea Annan, Alhassan Sulemana, Lyndon Nii Adjiri Sackey, **Kwodwo Miezah**, John Bentil, Douti Biyougue Nang, Raymond Webrah Kazapoe (2024). Synergistic use of cattle bile, compost and fertilizer amendments in enhancing the bioremediation of hydrocarbon-contaminated soils. *Cleaner and Circular Bioeconomy*. https://doi.org/10.1016/j.clcb.2024.100116

15. Isaac Osei-Safo, **Kodwo Miezah**, Lyndon Nii Adjiri Sackey, Junias Adusei-Gyamfi, Ayamba Malik Abdul (2024). Trace and Heavy Metals in Locally and Imported Spices Sold on Markets in Accra Metropolis, Ghana. *The Scientific World JOURNAL*. https://doi.org/10.1155/2024/3168279

16. Albert Banunle, Bernard Fei-Baffoe, **Kodwo Miezah**, Nana Ewusi-Mensah, Uffe Jørgensen, Robert Aidoo, Alice Amoah, Patrick Addo-Fordjour, Robert Clement Abaidoo (2023). Economic Viability Assessment of Small-Scale Biomass Composting Project Within a Developing Country Context. *Circular Economy and Sustainability*. https://doi.org/10.1007/s43615-023-00328-4

17. Albert Banunle, Bernard Fei-Baffoe, **Kodwo Miezah**, Nana Ewusi-Mensah, Uffe Jørgensen, Robert Aidoo, Alice Amoah, Patrick Addo-Fordjour, Robert Clement Abaidoo (2023). Valorisation of Biowaste and Aquatic Invasive Plants Through Compost Production for Agricultural Use. *Waste and Biomass Valorization*. https://doi.org/10.1007/s12649-023-02119-2

18. B Acheampong, **K Miezah**, E Bessah (2022). ASSESSMENT OF VALUE-ADDED SOLID WASTE DISPOSAL PERCEPTIONS IN GHANA: A CASE STUDY OF KWAMO COMMUNITY, KUMASI. *Ethiopian Journal of Environmental Studies & Management*. https://ejesm.org/wp-content/uploads/2022/08/ejesm.v15i4.5.pdf

19. Joseph Nana Gyesi, Bismark Anabila Nyaaba, Godfred Darko, Felix Charles Mills-Robertson, **Kodwo Miezah**, Nana Aboagye Acheampong, Felicia Frimpong, Grace Gyimah, Bridget Quansah, Lawrence Sheringham Borquaye (2022). Occurrence of Pharmaceutical Residues and Antibiotic-Resistant Bacteria in Water and Sediments from Major Reservoirs (Owabi and Barekese Dams) in Ghana. *Journal of Chemistry*. https://doi.org/10.1155/2022/1802204

20. MacDonald Kitson-Hytey, Bernard Fei-Baffoe, Lyndon N. A. Sackey, **Kodwo Miezah** (2022). Production of bioethanol from plantain and yam peels using Aspergillus niger and Saccharomyces cerevisiae. *Biomass Conversion and Biorefinery*. https://doi.org/10.1007/s13399-022-03352-w

21. Seshie V.I, **Miezah K**, Owusu C, Ewusi A, Dankwah J.R (2022). The utilisation of End-of-Life Plastics for the production of paver blocks: A waste management and disposal strategy. *International Journal of Civil Environmental and Agricultural Engineering*. https://doi.org/10.34256/ijceae2221

22. Bernard Fei-Baffoe, Jeffery Amo-Asare, Alhassan Sulemana, **Kodwo Miezah** (2021). Levels of Lead, Copper, and Zinc in Cabbage (Brassica oleracea sp.) and Lettuce (Lactuca sativa sp.) Grown on Soil Amended with Sewage Sludge. *Journal of Environmental and Public Health*. https://doi.org/10.1155/2021/8386218

23. Mohammed Habibu Abdulai, **Kodwo Miezah**, Abdul-Basit Danajoe Munkaila (2021). SOLID WASTE DISPOSAL IN EAST MAMPRUSI MUNICIPALITY: ASSESSMENT OF REASONS FOR DISPOSAL METHODS. *Journal of Environment*. https://doi.org/10.47941/je.669

24. Albert Banunle, Bernard Fei-Baffoe, **Kodwo Miezah**, Nana Ewusi-Mensah, Uffe Jørgensen, Robert Aidoo, Alice Amoah, Robert Clement Abaidoo, Alex Amerh Agbeshie (2021). Utilisation potentials of invasive plants in the Owabi dam in the Ashanti region of Ghana. *BioResources*. https://doi.org/10.15376/biores.16.2.3075-3095

25. V. I. Seshie, K. Obiri-Danso, **K. Miezah** (2020). Municipal Solid Waste Characterisation and Quantification as a measure towards Effective Waste Management in the Takoradi Sub-Metro, Ghana. *Ghana Mining Journal*. https://doi.org/10.4314/gm.v20i2.10

26. Michael Kaamo Ayaim, Bernard Fei-Baffoe, Alhassan Sulemana, **Kodwo Miezah**, Festus Adams (2019). Potential sites for landfill development in a developing country: A case study of Ga South Municipality, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2019.e02537

27. A Sulemana, **K Miezah**, Donkor (2018). Customer satisfaction of solid waste collection services: A measure towards effective waste management. *International Conference on Solid Waste Technology and Management. http://solid-waste.org/past-conferences-and-proceedings/proceedings/2018-2/*.

28. **Kodwo Miezah**, Kwasi Obiri-Danso, Zsófia Kádár, Stefan Heiske, Bernard Fei-Baffoe, Moses Mensah, Anne S. Meyer (2016). Municipal Solid Waste Management in a Low Income Economy Through Biogas and Bioethanol Production. *Waste and Biomass Valorization*. https://doi.org/10.1007/s12649-016-9566-5

29. Edem Cudjoe Bensah, Francis Kemausuor, **Kodwo Miezah**, Zsófia Kádár, Moses Mensah (2015). African perspective on cellulosic ethanol production. *Renewable and Sustainable Energy Reviews*. https://doi.org/10.1016/j.rser.2015.04.059

30. **Kodwo Miezah** (2015). Assesement of the quality of leachate at Sarbah landfill site at Weija in Accra. *Journal of Environmental Chemistry and Ecotoxicology*. https://www.researchgate.net/profile/Lyndon-Sackey/publication/290515705_Assesement_of_the_quality_of_leachate_at_Sarbah_landfill_site_at_Weija_in_Accra/links/5b85111e4585151fd13720c7/Assesement-of-the-quality-of-leachate-at-Sarbah-landfill-site-at-Weija-in-Accra.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail&_rtd=e30%3D

31. **Kodwo Miezah**, Kwasi Obiri-Danso, Zsófia Kádár, Bernard Fei-Baffoe, Moses Y. Mensah (2015). Municipal solid waste characterization and quantification as a measure towards effective waste management in Ghana. *Waste Management*. https://doi.org/10.1016/j.wasman.2015.09.009

32. **M Kodwo** (2012). The Waste Management Situation in Accra-Ghana: The Challenges and Prospects. *D-waste Atlas*.

33. **Kodwo Miezah**, JN Fobil (2008). Isolation and Identification of Some Plant Growth Promoting Substances in Compost and Co-Compost. *International Journal of Virology*. https://agris.fao.org/search/en/providers/125718/records/69e219d4920f500389b25812

Book chapters 2

1. Lyndon N. A. Sackey, **Kodwo Miezah** (2022). Determining the Quality of Leachate at Sarbah Landfill Site at Weija, Ghana. *Book Publisher International (a part of SCIENCEDOMAIN International)*. https://doi.org/10.9734/bpi/ecees/v4/2313b

2. Kwaku Oduro-Appiah, Anne Scheinberg, **Kodwo Miezah**, Anthony Mensah, Nanne K. de Vries (2019). Existing Realities and Sustainable Pathways for Solid Waste Management in Ghana. *Advances in environmental engineering and green technologies book series*. https://doi.org/10.4018/978-1-7998-0198-6.ch005