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RESEARCH

Interests	Environmental Chemistry | Water Quality Assessment | Environmental Remediation |Analytical Chemistry
Areas	Plant Science · Waste Management and Disposal · Aerospace Engineering · Agronomy and Crop Science · Atmospheric Science · Building and Construction

RESEARCH SUMMARY

11	136	4	4	1.22	11%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 11 publications listed below, 2017–2026. Field-weighted impact is the mean over the 9 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 9 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 11

1. Samuel Kofi Tulashie, Emmanuel Boafo Baidoo, Richmond Afoakwah, Dorcas Naa Odarley Ablateye, Francis Tambo, **Samira Esinam Elsie Aggor Woananu**, Enoch Mbawin Alale, Alvin David Amewuho, Foster Appiah Kubi, Osborne Kwadwo Owusu, Perry Nana Yaw Ahadjie (2026). Comparative spectroscopic characterization of ignitable liquid residues and fire debris using FTIR and XRD. *Spectroscopy Letters*. https://doi.org/10.1080/00387010.2026.2723261
2. André Noupko Djoï, **Samira Esinam Elsie Aggor Woananu**, Chukwuma Anyim (2024). An Integrated Technique for Natural Gas Numerical PVT Modelling: Case Study of Retrograde Condensate Gas with Python Programming. *European Journal of Engineering and Technology Research*. https://doi.org/10.24018/ejeng.2024.9.2.3155
3. **Samira Esinam Elsie Aggor Woananu**, Ify L. Nwaogazie, Ogbonna Friday Joel (2024). Assessment of Groundwater Quality Using Water Quality Indices in Illegal Mining Communities: A Case Study of the Atwima-kwanwoma District and Obuasi East Metropolis, Ghana. *Journal of Engineering Research and Reports*. https://doi.org/10.9734/jerr/2024/v26i101304
4. **Samira Esinam Elsie Aggor Woananu**, Ogbonna Friday Joel, Ify L. Nwaogazie (2024). Sustainable Groundwater Purification: Leveraging Local Materials for Lead, Iron, and Cyanide Removal in Ghanaian Mining Communities. *International Journal of Environment and Climate Change*. https://doi.org/10.9734/ijecc/2024/v14i94443
5. Noukpo André Djoï, Emery Makponsé Houngbédji, **Samira Esinam Elsie Aggor Woananu** (2024). Workflow for Pipe Prover Waterdraw Calibration Metrics Computation: Case Studies with Python Programming. *European Journal of Engineering and Technology Research*. https://doi.org/10.24018/ejeng.2024.9.6.3209
6. Samuel Kofi Tulashie, Amponsah Preko Appiah, **Samira Esinam Elsie Aggor-Woananu**, Stephen Mensah, Elkanah Dei-Amponsah, Sandra Atisey (2023). Production of natural mouthwash: A sustainable processing path. *Current Research in Green and Sustainable Chemistry*. https://doi.org/10.1016/j.crgsc.2023.100361
7. Christian Adler Phares, Kofi Atiah, Kwame Agyei Frimpong, Andrews Danquah, Aaron T. Asare, **Samira Aggor-Woananu** (2020). Application of biochar and inorganic phosphorus fertilizer influenced rhizosphere

soil characteristics, nodule formation and phytoconstituents of cowpea grown on tropical soil. *Heliyon*. https://doi.org/10.1016/j.heliyon.2020.e05255

8. Robert Agbemafle, **SE Aggor-Woananu**, Olivia Akutey, John Kwesi Bentum (2019). Heavy Metal Concentrations in Leachates and Crops Grown Around Waste Dumpsites in Sekondi-Takoradi in the Western Region of Ghana. *Research Journal of Environmental Toxicology*. https://doi.org/10.3923/rjet.2020.16.25
9. Samuel Kofi Tulashie, Francis Kotoka, Foster Kwame Kholi, **Samira Esinam Elsie Aggor-Woananu**, Gifty Rhodalyn Tetteh (2018). Assessment and remediation of pollutants in Ghana's Kete-Krachi District Hospital effluents using granular and smooth activated carbon. *Heliyon*. https://doi.org/10.1016/j.heliyon.2018.e00692
10. **Samira Esinam Elsie Aggor Woananu** (2018). Variations of polychlorinated biphenyls (PCBs) levels in the bivalve Galatea paradoxa from Ada, in Ghana, during the dry and wet seasons. *J Environ Chem Toxicol Vol*. https://www.academia.edu/download/89241667/variations-of-polychlorinated-biphenyls-pcbs-levels-in-the-bivalve-galatea-paradoxa-from-ada-in-ghana-during-the-dry-and.pdf
11. **Samira Esinam Elsie Aggor Woananu** (2017). Effect of Cooking Methods and Ripening Stages on the Nutritional Compositions of Plantain (Musa paradisiaca). *International Journal of Food Science and Biotechnology*. https://www.academia.edu/download/116922747/10.11648.j.ijfsb.20170204.17.pdf