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RESEARCH

Interests	Analytical Instrumentation and Environmental Analysis
Areas	Health, Toxicology and Mutagenesis · Pollution · Analytical Chemistry · Water Science and Technology · Biomedical Engineering · Ecology

RESEARCH SUMMARY

52	1,367	18	24	1.61	15%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 52 publications listed below, 1993–2026. Field-weighted impact is the mean over the 40 works scored for it; 1.00 is the world average for works of the same field, type and year. 6 of the 40 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 52

1. Elikplim Nyabi, Andrews Ayim Oduro, Roland Tsoeke Agbetsi, Gideon Addai, Sampson Kofi Kyei, Francis Opoku, **Ray Bright Voegborlo**, Eric Selorm Agorku (2026). Activated clay/ Opuntia microdasys incorporated polyvinyl alcohol membranes for fouling mitigation in wastewater filtration. *Materials Advances*. https://doi.org/10.1039/d5ma00423c
2. Gerheart Winfred Ashong, Wisdom Kwame Nyatuame, Flora Amerley Amarh, Dogbey Bright Agbeko, **Ray Bright Voegborlo**, Eric Selorm Agorku, Michael Yaw Peasah (2026). Monitoring, source apportionment, and health risk implications of potentially toxic element concentrations in canned fish products within Kumasi metropolis, Ghana. *Food Chemistry Advances*. https://doi.org/10.1016/j.focha.2026.101234
3. Atta Alhassan, Mary Nkansah Konadu, Elikplim Nyabi, Ahmed Kangmennaa, Timothy Kofi Amegbletor, Mandela Toku, Francis Opoku, **Ray Bright Voegborlo**, Eric Selorm Agorku (2026). Sodium alginate grafted polyacrylamide reinforced with coir pith for hydrocarbon removal in simulated saline water. *Next Materials*. https://doi.org/10.1016/j.nxmate.2026.103095
4. Elikplim Nyabi, Roland Tsoeke Agbetsi, Gideon Addai, Francis Opoku, Mandela Toku, **Ray Bright Voegborlo**, Eric Selorm Agorku (2025). Activated clay and cocoa nib shells-integrated polyvinyl alcohol membranes for fouling mitigation in water treatment. *Next Sustainability*. https://doi.org/10.1016/j.nxsust.2025.100136
5. Flora Amerley Amarh, Ahmed Kangmennaa, Eric Selorm Agorku, **Ray Bright Voegborlo** (2024). A state-of-the-art review of trends in molecularly imprinted polymers in the clean-up of pesticides in environmental samples. *Sustainable Environment*. https://doi.org/10.1080/27658511.2023.2298067
6. Eric Selorm Agorku, Ahmed Kangmennaa, Bernice Yram Danu, Francis Kofi Ampong, **Ray Bright Voegborlo** (2024). Core-shell V2O5- Gum ghatti grafted poly (acrylamide-co-methacrylic acid) adsorbent for the removal of methylene blue dye in water: Kinetic, equilibrium and thermodynamic studies. *Next Sustainability*. https://doi.org/10.1016/j.nxsust.2024.100069
7. ES Agorku, **RB Voegborlo**, PK Karikari (2024). Effects of replacing maize with cassava whey meal in the diets of rabbits. *Ghanaian Journal of Animal Science*. https://www.ajol.info/index.php/gjansci/article/view/282983

8. Flora Amerley Amarh, Ahmed Kangmennaa, Eric Selorm Agorku, **Ray Bright Voegborlo** (2024). Synthesis and Characterization of Magnetic Molecularly Imprinted Polymers for the Adsorption of Chlorpyrifos from Aqueous Media. *Polymer Science Series B*. https://doi.org/10.1134/s1560090424600360

9. Flora Amerley Amarh, Eric Selorm Agorku, **Ray Bright Voegborlo**, Gerheart Winfred Ashong, George Atiah Atongo (2023). Health risk assessment of some selected heavy metals in infant food sold in Wa, Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2023.e16225

10. Flora Amerley Amarh, Eric Selorm Agorku, **Ray Bright Voegborlo**, Gerheart Winfred Ashong, Enoch Nii Klu Nortey, Napoleon Jackson Mensah (2023). Heavy Metal Content and Health Risk Assessment of Some Selected Medicinal Plants from Obuasi, a Mining Town in Ghana. *Journal of Chemistry*. https://doi.org/10.1155/2023/9928577

11. John Kwabena Adusei, Eric Selorm Agorku, **Ray Bright Voegborlo**, Francis Kofi Ampong, Emmanuel Awarikabey, Bernice Yram Danu, Flora Amerley Amarh (2023). Zero Valent Iron Impregnated Sodium Alginate Grafted (Acrylamide-Co-Acrylic Acid) Adsorbents for the Removal of Methylene Blue in Aqueous Systems. *Journal of Macromolecular Science Part B*. https://doi.org/10.1080/00222348.2023.2211376

12. Leticia P. Amenorfe, Eric S. Agorku, Frederick Sarpong, **Ray B. Voegborlo** (2022). Innovative exploration of additive incorporated biopolymer-based composites. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01359

13. John Kwabena Adusei, Eric Selorm Agorku, **Ray Bright Voegborlo**, Francis Kofi Ampong, Bernice Yram Danu, Flora Amerley Amarh (2022). Removal of Methyl red in aqueous systems using synthesized NaAlg-g-CHIT/nZVI adsorbent. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01273

14. Flora Amarh, **Ray Bright Voegborlo**, Edward Ken Essuman, Eric Selorm Agorku, Clement Okraku Tettey, Nii Korley Kortei (2021). Effects of soil depth and characteristics on phosphorus adsorption isotherms of different land utilization types. *Soil and Tillage Research*. https://doi.org/10.1016/j.still.2021.105139

15. Bawuro, A.A., **Voegborlo, R.B.**, Adimado, A.A., Ahmed, S.D. (2021). Evaluation of Heavy Metal Distribution in Sediments of Lake Geriyo, Adamawa State, Nigeria. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.5805112

16. Noah Kyame Asare-Donkor, James Kusi Appiah, Vincent Torve, **Ray Bright Voegborlo**, Anthony Apeke Adimado (2020). Formaldehyde Exposure and Its Potential Health Risk in Some Beauty Salons in Kumasi Metropolis. *Journal of Toxicology*. https://doi.org/10.1155/2020/8875167

17. Anthony Apeke Adimado, V Torve, **RB Voegborlo** (2020). Occupational exposure of formaldehyde at some mortuaries in the Ashanti Region of Ghana. *J Toxicology: Curr Res*. https://www.researchgate.net/profile/Vincent-Torve/publication/338822712_Occupational_Exposure_Of_Formaldehyde_At_Some_Mortuaries_In_The_Ashanti_Region_Of_Ghana/links/5e2c38dd92851c3aadd98ca1/Occupational-Exposure-Of-Formaldehyde-At-Some-Mortuaries-In-The-Ashanti-Region-Of-Ghana.pdf

18. NK Asare-Donkor, **RB Voegborlo**, AA Adimado (2019). Assessment of formaldehyde levels and its health effects in some selected residential homes and offices in Ashanti region, Ghana. *Assessment*. http://www.jmess.org/wp-content/uploads/2019/08/JMESSP13420546.pdf

19. NK Asare-Donkor, **RB Voegborlo**, AA Adimado (2019). Comparison of Three Spectrophotometric Reagents for Determination of Formaldehyde (FA) in Fish. *J Environ Toxicol Analyt Res*. https://www.scholarena.com/article/Comparison-of-Three-Spectrophotometric-Reagents-for-Determination-of-Formaldehyde-FA-in-Fish.pdf

20. **RB Voegborlo** (2019). Dietary exposure to heavy metal contaminated rice and health risk to the population of Monrovia. *Journal of Environmental Science and Public Health*. https://fortunescholar.org/articles/dietary-exposure-to-heavy-metal-contaminated-rice-and-health-risk-to-the-population-of-monrovia.html

21. A. A. Bawuro, **R. B. Voegborlo**, A. A. Adimado (2018). Bioaccumulation of Heavy Metals in Some Tissues of Fish in Lake Geriyo, Adamawa State, Nigeria. *Journal of Environmental and Public Health*. https://doi.org/10.1155/2018/1854892

22. G. L. Gomah, **R.B. Voegborlo**, R. S. Ngumbu (2018). Levels of Heavy Metals in some Commercially available Rice on the Liberian Market. *International Journal of Scientific Research in Science and Technology*.

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24. Noah Kyame Asare-Donkor, Raymond Akanwi Adaagoam, **Ray Bright Voegborlo**, Anthony Apeke Adimado (2018). Risk Assessment of Kumasi Metropolis Population in Ghana through Consumption of Fish Contaminated with Formaldehyde. *Journal of Toxicology*. https://doi.org/10.1155/2018/4785031
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29. R.S Ngumbu, **R.B Voegborlo**, E.E. Kwaansa Ansah (2016). Health Risk Analysis of Mercury, Lead and Cadmium in Some Commercial Fish Species Collected from Markets in Monrovia, Liberia. *International Journal of Advances in Life Science and Technology*. https://doi.org/10.18488/journal.72/2016.3.1/72.1.1.8
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