Junias Adusei-Gyamfi

Department of Environmental Science
Kwame Nkrumah University of Science and Technology

ORCID 0000-0001-7571-0988 · Homepage linkedin.com/in/juniasaduseigyamfi · Google Scholar Citation scholar.google.com/citations?hl=en&user=99LVjLoAAAAJ · ResearchGate researchgate.net/profile/Junias-Adusei-Gyamfi · Google Scholar scholar.google.com/citations?user=99LVjLoAAAAJ&hl=en · Profile knust.peerford.com/staff/1d93958b-5b76-420b-8d54-1e13e86b9c91

RESEARCH

Interests	Water treatment · Pollution remediation · Water · Sanitation and Hygiene · Citizen Science · Water chemistry · Water quality monitoring · Environmental pollution
Areas	Water Science and Technology · Health, Toxicology and Mutagenesis · Global and Planetary Change · Nutrition and Dietetics · Analytical Chemistry · Ecological Modeling

RESEARCH SUMMARY

24	775	7	7	1.31	13%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 24 publications listed below, 2016–2026. Field-weighted impact is the mean over the 8 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 8 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Enseignant Chercheur (Assistant Professor)
Health and Environment, JUNIA, Lille, France

Lecturer
Environmental Science, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Ingénieur de Recherche/ Research Engineer 2017–2020
LASIRE UMR CNRS 8516 - Equipe Physico-chimie de l'Environnement, Université de Lille, Lille, France

EDUCATION AND QUALIFICATIONS

Ph.D 2017–2020
Environmental and Organic Chemistry, Université de Lille, Lille, France

MSc. Sustainable Management of Pollution 2014–2016
Institut Supérieur d'Agriculture de Lille, Lille, France

BSc. Chemistry 2006–2010
Chemistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 10

1. Isaac Osei-Safo, **Junias Adusei-Gyamfi**, David Azanu, Justine Criquet (2026). Drinking Water Quality Assessment in Sub-Saharan Africa: The Case of Disinfection Byproducts in Ghana. *ACS ES&T Water*. https://doi.org/10.1021/acsestwater.5c01262
2. **Junias Adusei-Gyamfi**, Afia Sarpong A. Gyebi, Owusu Abebrese, Gideon A. Appiah-Yeboah, Sampson Marfo, Emmanuel O. Owiredu, Azanu David, Seifu Tilahun (2026). Water Security in Developing

Economies: Leveraging Citizen Science for Near-Real-Time Groundwater Assessment. *Water Resources Management*. https://doi.org/10.1007/s11269-026-04782-1

3. Christian Julien Isac Gnimadi, Kokoutse Gawou, Michael Aboah, Emmanuel Odame Owiredu, **Junias Adusei-Gyamfi** (2024). Assessing the Influence of Hand-Dug Well Features and Management on Water Quality. *Environmental Health Insights*. https://doi.org/10.1177/11786302241249844
4. 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
5. Marian Asantewah Nkansah, Asare Boateng Dua, Gabriel Adjei Aryee, **Junias Adusei-Gyamfi** (2022). Evaluation of Scales of Tilapia Sp. and Sciaenops ocellatus as Low Cost and Green Adsorbent for fluoride Removal From Water. *Frontiers in Chemistry*. https://doi.org/10.3389/fchem.2022.813533
6. **Junias Adusei-Gyamfi**, Kofi S. Boateng, Alhassan Sulemana, Jonathan N. Hogarh (2022). Post COVID-19 recovery: Challenges and opportunities for solid waste management in Africa. *Environmental Challenges*. https://doi.org/10.1016/j.envc.2022.100442
7. **JA Gyamfi** (2021). Removal of disinfection by-product precursors by ion exchange resins. *Journal of Environmental Chemical Engineering*. https://www.sciencedirect.com/science/article/pii/S2213343720309519
8. **JA Gyamfi** (2020). Formation and removal of disinfection by-products in a full scale drinking water treatment plant. *Science of The Total Environment*. https://www.sciencedirect.com/science/article/pii/S0048969719352726
9. **J Adusei-Gyamfi** (2019). Natural organic matter-cations complexation and its impact on water treatment: A critical review. *Water research*. https://www.sciencedirect.com/science/article/pii/S004313541930452X
10. **J Adusei-Gyamfi** (2016). Carriers for nano zerovalent iron (nZVI): Synthesis, application and efficiency. *RSC advances*. https://pubs.rsc.org/ra/article-abstract/6/93/91025/540416

Conference papers 9

1. Osei Safo, Isaac, **Adusei-Gyamfi, Junias**, Azanu, David, Criquet, Justine (2025). Drinking water quality assessment in sub-Saharan Africa: the case of disinfection by-products in Ghana. *HAL (Le Centre pour la Communication Scientifique Directe)*.
2. **J Adusei-Gyamfi**, D Azanu (2023). Capacity building for the assessment of the occurrence of disinfection by-products in Ghana Ghana Water Resources First Results on DBPs. *Water Disinfection, Byproducts and Health Gordon Research Conference*. https://lilloa.hal.science/hal-05288712/document
3. T. A. Asiamah, D. D. Sedegah, **J. Adusei-Gyamfi** (2022). Covid-19 Consequences, Lessons and Opportunities for Addressing SDG 11: Evidence from Yilo Krobo Municipality of Ghana. https://doi.org/10.1007/978-3-030-90973-4_64
4. **JA Gyamfi** (2020). Elimination de la matière organique par résines échangeuses d'ions. *Journées Information Eaux*. https://hal.science/hal-02988271/
5. **JA Gyamfi** (2019). Characterization and removal of natural organic matter and its complexes formed with trace metals in drinking water treatment processes. *IWA Specialist Conference on Natural Organic Matter in Water*. https://hal.science/hal-02316343/
6. **J Adusei-Gyamfi** (2019). Diel monitoring of dissolved organic matter in the Deûle River. *International Conference on Chemistry and the Environment (ICCE)*. https://hal.science/hal-02278674/
7. **JA Gyamfi** (2019). Evaluating the capacity of a drinking water treatment plant to remove the disinfection by-product precursors. *17th International conference on chemistry and the environment*. https://hal.science/hal-02316331/
8. **J Adusei-Gyamfi** (2018). Elimination de la matière organique naturelle et de ses complexes formés avec des éléments traces métalliques dans des filières de potabilisation. *Journées Information Eaux*. https://hal.science/hal-01919283/

9. **J Adusei-Gyamfi** (2018). Suivi de la matière organique dissoute à l'échelle de la journée dans la Deûle. *RST 2018*. https://hal.science/hal-01904682/

Reports 5

1. **J Adusei-Gyamfi** (2024). A literature review of citizen science for hydrological monitoring-with specific focus on lessons learned in developing countries. *International Water Management Institute (IWMI). CGIAR Initiative on West ….* https://cgspace.cgiar.org/items/5add200b-fdf5-4fa9-80b2-70b465a0f58a
2. **J Adusei-Gyamfi** (2024). The environmental fallout of illegal mining in Southern Ghana: the environmental toll of illegal mining is undeniable, but forward-thinking initiatives are forging a path to …. *International Water Management Institute*. https://cgspace.cgiar.org/items/aaa0a8e4-dde8-45c8-8a1e-70ea1dccb3c8
3. **J Adusei-Gyamfi**, Andoh Kwaku Amponsah (2023). Evaluating hydrological dynamics and water quality in agricultural landscapes in Ghana's Forest Transition Belt: a citizen science approach. *International Water Management Institute*. https://cgspace.cgiar.org/items/c5d29bbd-ec8a-45a7-85d0-e233d418aa9d
4. **J Adusei-Gyamfi**, Andoh Kwaku Amponsah (2023). Fostering community-based water quality and quantity monitoring through citizen science in the Ashanti Region of Ghana: a citizen science training report. *International Water Management Institute*. https://cgspace.cgiar.org/items/3f3d7f75-a4c3-43b1-a608-74577aacddb3
5. **JUNIAS ADUSEI-GYAMFI**, Andoh Kweku Amponsah (2023). Inclusive landscape management plan for the transformation of the agrifood system in Ahafo Ano Southwest District of Ghana. *International Water Management Institute*. https://cgspace.cgiar.org/items/d901f43e-d390-492a-91fb-4d7a23d8239d