

Savanna Nyarko

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RESEARCH

Interests Diagnostic Radiology · Nanomedicine

Areas Radiology, Nuclear Medicine and Imaging · Biomedical Engineering · Epidemiology · Inorganic Chemistry · Materials Chemistry · Public Health, Environmental and Occupational Health

RESEARCH SUMMARY

15	61	4	2	0.61	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 15 publications listed below, 2014–2026. Field-weighted impact is the mean over the 11 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 11 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 12

1. Savanna Nyarko, Isaac Frimpong Brobbey, Emmanuel Fiagbedzi, Emmanuel Aboagye Appiah, Samuel Ackom (2026). A case report of pleomorphic adenoma in a 27-year-old female. *Radiology Case Reports*. <https://doi.org/10.1016/j.radcr.2026.06.144>
2. Savanna Nyarko, Moses Jojo Eghan, Catharina De Lange Davies, Mercy Afadzi Tetteh, Jerry Opoku-Ansah, Raphael Moreira, E. Johan Foster, Solomon Kingsley Katu, Elvis K. Tiburu (2026). Impact of Synthesis Temperature on the Drug Loading Capacity of Linde Type A Zeolite. *Journal of biomimetics, biomaterials and biomedical engineering*. <https://doi.org/10.4028/p-s7thip>
3. Savanna Nyarko, Emmanuel W Fiagbedzi (2026). Radiation Dose Assessment for Common Computed Tomography Examination at a Teaching Hospital in Ghana. *Science and Development Journal*. https://www.researchgate.net/profile/Savanna-Nyarko/publication/405723645_Radiation_Dose_Assessment_for_Common_Computed_Tomography_Examination_at_a_Teaching_Hospital_in_Ghana/links/6a1edff9bb627d1eb8789d04/Radiation-Dose-Assessment-for-Common-Computed-Tomography-Examination-at-a-Teaching-Hospital-in-Ghana.pdf
4. Emmanuel Fiagbedzi, Joseph Arkorful, Isaac Frimpong Brobbey, Emmanuel Appiah, Savanna Nyarko, Nicholas Otumi, Albert Dayor Piersson, Obed Nimo, Ishmael Nii Ofori, Philip Narteh Gorleku (2024). A case of ruptured infrapatellar bursa sac with Baker's cyst. *Radiology Case Reports*. <https://doi.org/10.1016/j.radcr.2024.10.058>
5. Emmanuel Fiagbedzi, Vivian Della Atuwu-Ampoh, Ishmael Nii Ofori, Savanna Nyarko, Asare Adomako, Francis Hasford, Jeffrey Gameli Amlalo, Philip Narteh Gorleku (2024). Access to brachytherapy treatment for cervical cancer management in Africa. *Clinical and Translational Radiation Oncology*. <https://doi.org/10.1016/j.ctro.2024.100880>
6. Christiana Odumah Hood, Savannah Nyarko (2023). Update on the status of Women in Physics in Ghana. *AIP Conference Proceedings*. <https://pubs.aip.org/aip/acp/article-abstract/3040/1/050017/2921991>
7. Emmanuel Fiagbedzi, Philip Nii Gorleku, Savanna Nyarko, Adomako Asare, Gideon Ackah Ndede (2022). Assessment of radiation protection knowledge and practices among radiographers in the central region of Ghana. *Radiation Medicine and Protection*. <https://doi.org/10.1016/j.radmp.2022.06.001>

8. Emmanuel Fiagbedzi, Philip Nii Gorleku, Savanna Nyarko, Bernard Frimpong, Alberta Adjei, Abel Nkrumah (2022). Perception of final year radiography students towards the proposed six-year Doctor of Radiography/Medical Imaging program. *Radiography Open*. <https://doi.org/10.7577/radopen.4758>
9. Emmanuel Worlali Fiagbedzi, Philip Nii Gorleku, Savanna Nyarko, Vivian Della Atuwu-Ampoh, Yawo Atsu Constantino Fiagan, Adomako Asare (2022). The Role of Artificial Intelligence (AI) in Radiation Protection of Computed Tomography and Fluoroscopy: A Review. *Open Journal of Medical Imaging*. <https://doi.org/10.4236/ojmi.2022.121004>
10. Philip Narteh Gorleku, Jacob Setorglo, Emmanuel Kobina Edzie, Albert Dayor Piersson, Ishmael Nii Ofori, James William Ampofo, Savanna Nyarko (2020). Assessment of Effectiveness of Problem Based Learning Pedagogical Approach in Radiography Education in a Tertiary Institution in Ghana. *Universal Journal of Educational Research*. <https://doi.org/10.13189/ujer.2020.080346>
11. MK Vowotor, Samuel Sonko Sackey, Christiana Odumah Hood, E Tatchie, DC Adukpo, KK Mireku, S Nyarko (2015). Daily Intake and Sources of Trace Elements in Sarotherodon melanotheron from the Benya Lagoon, KEEA, Ghana, Using Instrumental Neutron Activation Analysis. *Journal of Basic & Applied Sciences*. https://www.researchgate.net/profile/Samuel-Sackey-2/publication/301201935_Daily_Intake_and_Sources_of_Trace_Elements_in_Sarotherodon_melanotheron_from_the_Benya_Lagoon_KEEA_Ghana_Using_Instrumental_Neutron_Activation_Analysis/links/570bfc1a08aee0660351a954/Daily-Intake-and-Sources-of-Trace-Elements-in-Sarotherodon-melanotheron-from-the-Benya-Lagoon-KEEA-Ghana-Using-Instrumental-Neutron-Activation-Analysis.pdf
12. Michael Kwame Vowotor, Christiana Odumah Hood, Samuel Sonko Sackey, Alfred Owusu, Ebenezer Tatchie, Savanna Nyarko, Daniel Manu Osei, Kwadwo Kesse Mireku, Crystal Bubune Letsa, Sampson M. Atieomo (2014). An Assessment of Heavy Metal Pollution in Sediments of a Tropical Lagoon: A Case Study of the Benya Lagoon, Komenda Edina Eguafo Abrem Municipality (KEEA) — Ghana. *Journal of Health and Pollution*. <https://doi.org/10.5696/2156-9614-4-6.26>

Conference papers 2

1. Savanna Nyarko, Moses J. Eghan, Elvis K. Tiburu (2024). LTA zeolites synthesized at different temperatures and evaluating the drug loading capability. *Plasmonics: Design, Materials, Fabrication, Characterization, and Applications XXII*. <https://doi.org/10.1117/12.3026507>
2. Aba Bentil Andam, Paulina Amponsah, Irene Nsiah-Akoto, Christina Oduma Anderson, Baaba Andam Ababio, Yaa Akomah Asenso, Savanna Nyarko (2015). Women in science in Ghana: The Ghana science clinics for girls. *AIP conference proceedings*. <https://doi.org/10.1063/1.4937668>

Theses 1

1. Savanna Nyarko (2024). Drug Delivery by Zeolite Nanomaterials in Treatment of Breast Cancer: In Vitro. *University of Cape Coast*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/9bde327d-ea8a-476e-85b9-c90029d82cda/content>