Dr. Francis Nsiah

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RESEARCH

Interests: Petroleum/Produced Water Chemistry · Analytical Chemistry · Nanotechnology · Asphaltene Chemistry · Water Remediation · Analytical Spectroscopy · Laboratory Safety

Areas: Biomedical Engineering · Electronic, Optical and Magnetic Materials · Molecular Biology · Water Science and Technology · Analytical Chemistry · Electrochemistry

RESEARCH SUMMARY

13	176	5	3	0.81	10%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 13 publications listed below, 2004–2026. Field-weighted impact is the mean over the 10 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 10 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Senior Lecturer 2010–present
Chemistry, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

PhD 2010–present
Chemistry, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 12

1. Samuel Kofi Tulashie, Abdul-Wadud Ibrahim Atiiga, Stephen Mensah, Simon Obutey Teye, Rachael Arkorful, Mustapha Iddrisu, Mavis Olayemi Olorunyomi, **Francis Nsiah**, Ruphino Zugle, George Alimoh, Genevieve Adukpo, Samuel Koomson (2026). Benchmarking accessible electrode materials for electrochemical sodium hypochlorite production. *Discover Electrochemistry.*. https://doi.org/10.1007/s44373-026-00152-z
2. **Francis Nsiah**, Mark T. McDermott (2023). Control of protein density on nanoparticles for SERS-based immunoassays. *Gold bulletin*. https://doi.org/10.1007/s13404-023-00325-3
3. Comfort Nsiah, Jerry Paul Kukye-Ayiri Ninnoni, Mate Siakwa, **Francis Nsiah** (2023). Exploring the Implications of Patient Advocacy Outcomes among Practicing Nurses within the Hospital Context: A Qualitative Research. *Open Journal of Nursing*. https://doi.org/10.4236/ojn.2023.1312057
4. Bright Ankudze, David Neglo, **Francis Nsiah** (2023). Green synthesis of silver nanoparticles from discarded shells of velvet tamarind (Dialium cochinchinense) and their antimicrobial synergistic potentials and biofilm inhibition properties. *BioMetals*. https://doi.org/10.1007/s10534-023-00534-5
5. **Francis Nsiah**, Samuel Kofi Tulashie, Michael Miyittah, Francis Nuamah, Francis Worlanyo Tsyawo (2023). Impact assessment of high-risk analytes in produced water from oil and gas industry. *Marine Pollution Bulletin*. https://doi.org/10.1016/j.marpolbul.2023.114921
6. **Francis Nsiah**, Mark T. McDermott (2023). Microfluidic Patterning of Chemically Modified Nanoparticles

for Surface Enhanced Raman Spectroscopic Mapping. *BioNanoScience*. https://doi.org/10.1007/s12668-023-01136-8

7. **Francis Nsiah**, Seth K. Fiafor, Subir Bhattacharjee (2022). Investigation of Aggregation Behavior and Molecular Weight Changes of Asphaltene Model Compound. *European Journal of Advanced Chemistry Research*. https://doi.org/10.24018/ejchem.2022.3.2.109
8. **Francis Nsiah**, Mark T. McDermott (2022). Nanoparticle-based surface enhanced Raman spectroscopic imaging of biological arrays. *Dalton Transactions*. https://doi.org/10.1039/d2dt03313e
9. Isaac Kwaku Attatsi, **Francis Nsiah** (2020). Application of silver nanoparticles toward Co(II) and Pb(II) ions contaminant removal in groundwater. *Applied Water Science*. https://doi.org/10.1007/s13201-020-01240-0
10. **F Nsiah** (2016). Evaluation of silver nanostructures fabricated using glancing angle deposition as localized surface plasmon resonance biosensors. *UNE*. https://scholar.google.com/scholar?cluster=14299880615086650655&hl=en&oi=scholarr
11. **Francis Nsiah**, Mark T. McDermott (2015). Investigation of Adsorption Characteristics of Fibrinogen on Modified Gold Substrates Using Infrared Reflection Absorption Spectroscopy. *American Scientific Research Journal for Engineering, Technology, and Sciences (Global Society of Scientific Research and Researchers)*.
12. **Francis Nsiah** (2007). Localized surface plasmon resonance biosensor using silver nanostructures fabricated by glancing angle deposition. *Analytical chemistry*. https://doi.org/10.1021/ac0622274

Theses 1

1. **Francis Nsiah** (2004). Examination of Protein Adsorption with Surface-sensitive Spectroscopic Techniques. *National Library of Canada= Bibliothèque nationale du Canada, Ottawa*. https://library-archives.canada.ca/eng/services/services-libraries/theses/Pages/item.aspx?idNumber=56806375