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RESEARCH

Interests	Inorganic Chemistry · Coordination Chemistry · Crystallographic Databases · Organometallic Chemistry
Areas	Organic Chemistry · Physical and Theoretical Chemistry · Water Science and Technology · Inorganic Chemistry · Oncology · Materials Chemistry

RESEARCH SUMMARY

26	170	9	9	0.41	4%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 26 publications listed below, 2010–2026. Field-weighted impact is the mean over the 25 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 25 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 25

1. Ruth Dede Tuwor, Joanna Butler, **Samuel Tetteh**, Emmanuel Boakye Boateng Okyere, Miriam Gborglah, Kabiru Mohammed Abass, Abigail Agbanyo, Bernadette Agbavor, Caroline Erolin, Roderick Hay, Richard Odame Phillips, Yaw Ampem Amoako, Rachel E. Simmonds (2026). Assessing the acceptability of photographs and medical illustrations in Buruli ulcer health communication among health providers, community volunteers and community members in endemic districts of Ghana. *PLoS neglected tropical diseases*. https://doi.org/10.1371/journal.pntd.0014275
2. John Kwaku Prosper Adotey, Caleb Mawuli Agbale, **Samuel Tetteh**, Christiana Odumah Hood, Samuel Acheampomg, Carlos Kwesi Tettey, Rosemond Godbless Dadzie, Emmanuel Ogyiri Adu, Francis Nkrumah, Mandela Toku, Agnes Tutuwaa, Aaron Tettey Asare (2026). Characterization of Starch From Four Cassava Varieties Using Fourier Transform Infrared Spectroscopy, Powder x-ray Diffraction, and Scanning Electron Microscopy. *Starch - Stärke*. https://doi.org/10.1002/star.70185
3. Forgive Awo Norvivor, Elijah Kwasi Peprah, Nathaniel Annang Armah, Millicent Boadiwa-Yirenkyi, **Samuel Tetteh** (2026). Injury patterns, demographics, and post-treatment outcomes at Volta regional hospital, 2021–2025. *Frontiers in Public Health*. https://doi.org/10.3389/fpubh.2026.1878285
4. **Samuel Tetteh**, Nuriya Mahama (2024). Synthesis of potash alum from waste aluminum cans for the purification of river water. *Pure and Applied Chemistry*. https://doi.org/10.1515/pac-2023-1118
5. Justice Hayfron, Sirpa Jääskeläinen, **Samuel Tetteh** (2024). Synthesis of zeolite from rice husk ash and kaolinite clay for the removal of methylene blue from aqueous solution. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e41325
6. **Samuel Tetteh** (2023). Geometric Analysis and DFT Study of 2,2′-Dipyridylamine-Stabilized First-Row Transition-Metal Complexes. *Crystal Growth & Design*. https://doi.org/10.1021/acs.cgd.3c01186
7. **Samuel Tetteh** (2023). The Cambridge structural database (CSD): important resources for teaching concepts in structural chemistry and intermolecular interactions. *Physical Sciences Reviews*. https://doi.org/10.1515/psr-2022-0325
8. **Samuel Tetteh** (2022). Knowledge-based assessment of polymorphism in crystal structures involving

chloroquine and hydroxychloroquine. *Results in Chemistry*. https://doi.org/10.1016/j.rechem.2022.100492

9. **Samuel Tetteh**, Albert Ofori, Andrew Quashie, Sirpa Jääskeläinen, Sari Suvanto (2022). Modification of kaolinite/muscovite clay for the removal of Pb(II) ions from aqueous media. *Physical Sciences Reviews*. https://doi.org/10.1515/psr-2021-0145
10. Sadou Dalhatou, Mouhamadou Sali, **Samuel Tetteh**, Abdoulaye Boubakari, Bouba Talami, Hicham Zeghioud, Abdoulaye Kane, Atef El Jery, Aymen Amin Assadi, David Olubiyi Obada (2022). Sorbent and Photocatalytic Potentials of Local Clays for the Removal of Organic Xenobiotic: Case of Crystal Violet. *Catalysts*. https://doi.org/10.3390/catal12080899
11. **Samuel Tetteh**, Albert Ofori (2021). Effect of delocalization of nonbonding electron density on the stability of the M–Ccarbene bond in main group metal-imidazol-2-ylidene complexes: a computational and structural database study. *Physical Sciences Reviews*. https://doi.org/10.1515/psr-2020-0084
12. **Samuel Tetteh** (2020). Halide effect on the electron distribution in oxovanadium complexes bearing side-on (η2) dioxygen ligands: A combined crystallographic and theoretical study. *Journal of Molecular Structure*. https://doi.org/10.1016/j.molstruc.2020.129187
13. Aba Akebi Atta-Eyison, **Samuel Tetteh**, Ruphino Zugle (2020). Photocatalytic degradation of azo reactive dyes with ultraviolet and sunlight irradiated zinc oxide. https://doi.org/10.22034/fcr.2020.118439.1015
14. **Samuel Tetteh** (2019). A Computational and Structural Database Study of the Metal-Carbene Bond in Groups IA, IIA, and IIIA Imidazol-2-Ylidene Complexes. *Journal of Chemistry*. https://doi.org/10.1155/2019/5675870
15. **Samuel Tetteh** (2019). Imidazol-2-ylidene stabilized tetrahedral cobalt carbonyl complexes: A computational and structural database study. *Heliyon*. https://doi.org/10.1016/j.heliyon.2019.e02125
16. **Samuel Tetteh**, Ruphino Zugle, Albert Ofori, John Prosper Kwaku Adotey (2019). Kinetics and Equilibrium Thermodynamic Studies of the Adsorption of Phenolphthalein and Methyl Orange onto Muscovite Clay. https://doi.org/10.22034/fcr.2020.122175.1017
17. **Samuel Tetteh**, Anna Monney, Ruphino Zugle, Joseph Kweku Adjei (2019). Quantification of Imipramine, Amitriptyline and their Major Metabolites in Urine Samples of Depressed Patients by Gas Chromatography-Mass Spectrometry. https://doi.org/10.22034/fcr.2019.37149
18. **Samuel Tetteh** (2018). Coordination Behavior of Ni2+, Cu2+, and Zn2+ in Tetrahedral 1-Methylimidazole Complexes: A DFT/CSD Study. *Bioinorganic Chemistry and Applications*. https://doi.org/10.1155/2018/3157969
19. **Samuel Tetteh**, Ruphino Zugle, John Prosper Kwaku Adotey, Andrews Quashie (2018). Electronic Spectra of ortho-Substituted Phenols: An Experimental and DFT Study. *Journal of Spectroscopy*. https://doi.org/10.1155/2018/4193657
20. **Samuel Tetteh**, Andrews Quashie, Michael Akrofi Anang (2018). Purification, Characterization, and Time-Dependent Adsorption Studies of Ghanaian Muscovite Clay. *Journal of Chemistry*. https://doi.org/10.1155/2018/6252913
21. **Samuel Tetteh**, Ruphino Zugle (2017). Theoretical Study of Terminal Vanadium(V) Chalcogenido Complexes Bearing Chlorido and Methoxido Ligands. *Journal of Chemistry*. https://doi.org/10.1155/2017/6796321
22. Ruphino Zugle, **Samuel Tetteh** (2016). Changes in the Spectral Features of Zinc Phthalocyanine Induced by Nitrogen Dioxide Gas in Solution and in Solid Polymer Nanofiber Media. *Journal of Fluorescence*. https://doi.org/10.1007/s10895-016-2006-x
23. **Samuel Tetteh**, David. K. Dodoo, Regina Appiah-Opong, Isaac Tuffour (2014). Cytotoxicity, antioxidant and glutathione S-transferase inhibitory activity of palladium(II) chloride complexes bearing nucleobase ligands. *Transition Metal Chemistry*. https://doi.org/10.1007/s11243-014-9848-3
24. **Samuel Tetteh**, David K. Dodoo, Regina Appiah-Opong, Isaac Tuffour (2014). Spectroscopic Characterization,In VitroCytotoxicity, and Antioxidant Activity of Mixed Ligand Palladium(II) Chloride Complexes Bearing Nucleobases. *Journal of Inorganic Chemistry*. https://doi.org/10.1155/2014/586131

25. **Samuel Tetteh**, Adem A. Golow, David K. Essumang, Ruphino Zugle (2010). Levels of Mercury, Cadmium, and Zinc in the Topsoil of Some Selected Towns in the Wassa West District of the Western Region of Ghana. *Soil and Sediment Contamination An International Journal*. https://doi.org/10.1080/15320383.2010.515626

Theses 1

1. **Samuel Tetteh** (2025). Emotional Intelligence and Performance of Nurses at The Mercy Women's Catholic Hospital, Mankessim. *University of Cape Coast*. https://ir.ucc.edu.gh/server/api/core/bitstreams/a2db84bf-9a90-45a5-8641-132ef158d89a/content