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RESEARCH

Interests	Nanotechnology
Areas	Materials Chemistry · Atomic and Molecular Physics, and Optics · Biomedical Engineering · Electrical and Electronic Engineering · Civil and Structural Engineering · Radiology, Nuclear Medicine and Imaging

RESEARCH SUMMARY

112	729	14	27	0.28	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 112 publications listed below, 1991–2026. Field-weighted impact is the mean over the 86 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 86 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 108

1. D Sekyi-Arthur, **SY Mensah**, KA Dompreh (2026). Thermomagnetic power factor in GaAs/AlGaAs superlattice. *Journal of Magnetism and Magnetic Materials*. https://www.sciencedirect.com/science/article/pii/S0304885326008310
2. **Samuel Mensah** (2025). A case of Plasmodium falciparum malaria presenting 13 years after leaving an endemic area. *Infectious Diseases*. https://doi.org/10.1080/23744235.2025.2505078
3. Patrick Akakpo, Emmanuel G Imbeah, **Samuel Mensah**, Josephine Nsaful (2025). Assessing the impact of improved pre-analytic tissue handling on immunohistochemistry and breast cancer subtypes in Ghana. *Cancer Research*. https://aacrjournals.org/cancerres/article/85/8_Supplement_1/5927/760856
4. Josephine Nsaful, **Samuel Mensah** (2025). Barriers to cancer diagnosis and treatment among women in low-and low-middle-income countries. *Cancer Research*. https://aacrjournals.org/cancerres/article/85/8_Supplement_1/7113/760660
5. D Sekyi-Arthur, **S Y Mensah** (2025). Generation of acousto-electric direct current in fluorine-doped single-walled carbon nanotubes due to the mixing of waves with commensurate frequencies (phaseless). *Pramana*. https://doi.org/10.1007/s12043-025-03003-5
6. **S Y MENSAH** (2025). Global anaesthesia practice using inguinal hernia surgery as a tracer condition: a secondary analysis of an international prospective cohort study. *Anaesthesia*. https://doi.org/10.1111/anae.16686
7. Kwaku Boakye, Selorm Akaba, Shallan Awuye, **Samuel Mensah** (2025). Sustainability in Agricultural Value Chains: Evidence from the Pineapple Sector in Ghana. *Research on World Agricultural Economy*. https://doi.org/10.36956/rwae.v6i2.1641
8. Samuel Mensah, Patrick K Akakpo, Josephine Nsaful, **Samuel Mensah** (2025). Variation in breast cancer molecular sub-types prevalence among ethnic groups within Ghana and implication for tumor biologic studies among African-Americans. *Cancer Research*. https://aacrjournals.org/cancerres/article/85/8_Supplement_1/7104/760669
9. Naa Korkor Leeyoo Watson-Nortey, **Samuel Arko Mensah Mensah** (2025). WHERE DO WE KEEP THE

GODS? GALAMSEY, SACRED ECOLOGY AND THE CRISIS OF SUSTAINABILITY IN GHANA. *Journal of African Arts & Culture*. https://doi.org/10.63102/jaac.v8i2.202510

10. **S Y MENSAH** (2024). Access to and quality of elective care: a prospective cohort study using hernia surgery as a tracer condition in 83 countries. *The Lancet Global Health*. https://www.thelancet.com/journals/langlo/article/PIIS2214-109X(24)00142-6/fulltext
11. M. Amekpewu, **S.Y. Mensah**, R. Musah, S.S. Abukari, K.A. Dompreh, D. Sekyi-Arthur, N.G. Mensah, W. Ebikor (2024). Effect of doping on domain suppression in the presence of hot electrons in semiconducting achiral carbon nanotubes. *Journal of Physics and Chemistry of Solids*. https://doi.org/10.1016/j.jpcs.2024.112010
12. M. Amekpewu, **S.Y. Mensah**, R. Musah, S.S. Abukari, N.G. Mensah, K.A. Dompreh, K.W. Adu (2024). Impact of diameter and temperature on domain suppression by hot electrons in zigzag carbon nanotubes under constant electric field. *Materials Chemistry and Physics*. https://doi.org/10.1016/j.matchemphys.2024.129747
13. Raymond Edziah, Samuel S. Bentsiefi, Kwadwo Dompreh, Anthony Twum, Emmanuel Kofi Amewode, Patrick Mensah-Amoah, Ebenezer T. Tatchie, Cynthia Jebuni-Adanu, **Samuel Y. Mensah** (2024). Investigation of Acoustomagnetoelectric Effect in Bandgap Graphene by the Boltzmann Transport Equation. *World Journal of Condensed Matter Physics*. https://doi.org/10.4236/wjcmp.2024.141002
14. **S Y MENSAH** (2024). Microbiology testing capacity and antimicrobial drug resistance in surgical-site infections: a post-hoc, prospective, secondary analysis of the FALCON randomised trial in seven .... *The Lancet Global Health*. https://www.thelancet.com/journals/langlo/article/PIIS2214-109X(24)00330-9/fulltext
15. **S Y MENSAH** (2024). Routine sterile glove and instrument change at the time of abdominal wound closure to prevent surgical site infection (ChEETAh): a model-based cost-effectiveness analysis of a .... *The Lancet Global Health*. https://www.thelancet.com/journals/langlo/article/PIIS2214-109X(23)00538-7/fulltext
16. Isaac Bentum Ennin, **Samuel Mensah**, Evans Kulu (2024). Taxes, institutions, and illicit financial flows in Africa. *Global Business and Economics Review*. https://doi.org/10.1504/gber.2024.139318
17. Daniel Sekyi-Arthur, **Samuel Yeboah Mensah**, Kofi Wi-Adu, Kwadwo Anokye Dompreh, Raymond Edziah (2024). Tunable High-Frequency Acoustoelectric Current Oscillations in Fluorine-Doped Single-Walled Carbon Nanotubes. *Journal of Nanotechnology*. https://doi.org/10.1155/2024/7426184
18. D. Sekyi-Arthur, **S.Y. Mensah**, E.K. Amewode, R. Arthur, R.R. Adams (2023). Acoustoelectric direct current density in fluorine doped single-walled carbon nanotubes due to harmonic mixing of bichromatic fields with commensurate frequencies. *Diamond and Related Materials*. https://doi.org/10.1016/j.diamond.2023.109993
19. **S Y MENSAH** (2023). Determination of Local Reference Renal Volumetric Ellipsoid Coefficient For Clinical Application In Ghana. *Science and Development*. https://www.ajol.info/index.php/jsdugs/article/view/254074
20. D. Sekyi-Arthur, **S.Y. Mensah**, E.K. Amewode, C. Jebuni-Adanu, J. Asare (2023). High frequency amplification of acoustic phonons in fluorine-doped single-walled carbon nanotubes. *Diamond and Related Materials*. https://doi.org/10.1016/j.diamond.2023.110642
21. Christiana Odumah Hood, Jaćimović Radjoko, **Samuel Yeboah Mensah**, Milena Horvat (2023). Spatial distribution of Hg in Pra River Basin, Southwestern Ghana using HF acid combination method. *Environmental Monitoring and Assessment*. https://doi.org/10.1007/s10661-023-11122-y
22. **S Y MENSAH** (2023). The importance of post-discharge surgical site infection surveillance: an exploration of surrogate outcome validity in a global randomised controlled trial (FALCON). *The Lancet Global Health*. https://www.thelancet.com/journals/langlo/article/PIIS2214-109X(23)00256-5/fulltext
23. Kwadwo A. Dompreh, Daniel Sekyi-Arthur, **Samuel Y. Mensah**, Kofi W. Adu, Raymond Edziah, Mathew Amekpewu (2022). Effect of band-gap tuning on absorption of phonons and acoustoelectric current in graphene nanoribbon. *Physica E Low-dimensional Systems and Nanostructures*. https://doi.org/10.1016/j.physe.2022.115516

24. **S Y MENSAH** (2022). Elective surgery system strengthening: development, measurement, and validation of the surgical preparedness index across 1632 hospitals in 119 countries. *The Lancet*. https://www.thelancet.com/journals/lancet/article/PIIS0140-6736(22)01846-3/fulltext

25. S. S. Abukari, **S. Y. Mensah**, R. Musah, M. Amekpewu, N. G. Mensah, K. W. Adu (2022). Enhanced nonlinear conductivity due to hot-electron injection in carbon nanotubes. *Low Temperature Physics*. https://doi.org/10.1063/10.0011603

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30. Isaac Boadi, Joseph Abekah, Abednego Okoe Amartey, Raymond K. Dziwornu, Koryoe Anim-Wright, **Samuel Mensah** (2022). Social capital and knowledge creation: a higher education institution networks. *Cogent Education*. https://doi.org/10.1080/2331186x.2022.2107313

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