

# Patrick Mensah-amoah

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## RESEARCH

Interests Applied Optics · Optoelectronics · Materials Science

Areas Materials Chemistry · Atomic and Molecular Physics, and Optics · Biomedical Engineering · Civil and Structural Engineering · Electrical and Electronic Engineering · Environmental Engineering

## RESEARCH SUMMARY

|              |           |          |           |                       |               |
|--------------|-----------|----------|-----------|-----------------------|---------------|
| <b>15</b>    | <b>84</b> | <b>6</b> | <b>2</b>  | <b>0.44</b>           | <b>0%</b>     |
| Publications | Citations | h-index  | i10-index | Field-weighted impact | World top 10% |

Counted from the 15 publications listed below, 2015–2024. Field-weighted impact is the mean over the 14 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 14 papers scored for it are among the world's most cited tenth for their field, type and year.

## PUBLICATIONS

### Journal articles 15

1. Raymond Edziah, Samuel S. Bentsiefi, Kwadwo Dompheh, Anthony Twum, Emmanuel Kofi Amewode, **Patrick Mensah-Amoah**, Ebenezer T. Tatchie, Cynthia Jebuni-Adanu, Samuel Y. Mensah (2024). Investigation of Acoustomagnetolectric Effect in Bandgap Graphene by the Boltzmann Transport Equation. *World Journal of Condensed Matter Physics*. <https://doi.org/10.4236/wjcmp.2024.141002>
2. Justice Allotey Pappoe, Jerry Opoku-Ansah, Charles Lloyd Yeboah Amuah, Peter Osei-Wusu Adueming, Samuel Sonko Sackey, Rabbi Boateng, Justice Kwaku Addo, Moses Jojo Eghan, **Patrick Mensah-Amoah**, Benjamin Anderson (2023). Automatic Classification of Antimalarial Herbal Drugs Exposed to Ultraviolet Radiation from Unexposed Ones Using Laser-Induced Autofluorescence with Chemometric Techniques. *Journal of Fluorescence*. <https://doi.org/10.1007/s10895-023-03281-5>
3. Anthony Twum, Raymond Edziah, Samuel Yeboah Mensah, Kwadwo Dompheh, **Patrick Mensah-Amoah**, Augustine Arthur, Natalia G. Mensah, Kofi Adu, George Nkrumah-Buandoh (2021). Temperature Dependent Resistivity of Chiral Single-Walled Carbon Nanotubes in the Presence of Coherent Light Source. *World Journal of Condensed Matter Physics*. <https://doi.org/10.4236/wjcmp.2021.114006>
4. B. Sefa-Ntiri, B. Kwakye-Awuah, R. Edziah, B. Anderson, F. A. Armah, **P. Mensah-Amoah**, S. S. Sackey, F. Sam, A. G. Akyea, S. Yunus, E. Tatchie, B. K. Nkansah, F. Kumi (2020). Dissolved organic matter in hand-dug well water as groundwater quality indicator: assessment using laser-induced fluorescence spectroscopy and multivariate statistical techniques. *SN Applied Sciences*. <https://doi.org/10.1007/s42452-020-2446-4>
5. SS Sackey, **P Mensah-Amoah**, G Amoako, Michael Kwame Vowotor, B Sefa-Ntiri (2019). Photo-Degradation of Microbes in Hand-Dug Well-Water Using Different Radiation Sources. *International Journal of Science and Engineering Investigations (IJEI)*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/10ce3736-bbe7-47a1-8b50-bfa55fb2a873/content>
6. Shemmira Yunus, Baah Sefa-Ntiri, Benjamin Anderson, Francis Kumi, **Patrick Mensah-Amoah**, Samuel Sonko Sackey (2019). Quantitative Pore Characterization of Polyurethane Foam with Cost-Effective Imaging Tools and Image Analysis: A Proof-Of-Principle Study. *Polymers*. <https://doi.org/10.3390/polym11111879>
7. Frederick Sam, George Amoako, Baah Sefa-Ntiri, Anthony Twum, **P. Mensah-Amoah**, John Tellam (2018).

Characterization of Potential Direct Recharge in the Gold Mining District of South-Western Ghana Using the Hydrus-1D Computer Code. *Journal of Geography and Geology*. <https://doi.org/10.5539/jgg.v10n3p1>

8. Amoako, George, Mensah-Amoah, Patrick (2018). Determination of Calorific Values of Coconut Shells and Coconut Husks. *Zenodo (CERN European Organization for Nuclear Research)*. <https://doi.org/10.5281/zenodo.2647740>
9. George Amoako, Patrick Mensah-Amoah, Frederick Sam, Samuel S Sackey (2018). Some Mechanical Properties of Coconut Fiber Reinforced Polyethylene Composite to Control Environmental Waste in Ghana. *Energy and Environment Research*. <https://doi.org/10.5539/eer.v8n1p1>
10. Samuel Sonko Sackey, Baah Sefa-Ntiri, Patrick Mensah-Amoah, Jonathan Ntow, Michael Kwame Vowotor, Andrew Huzortey, Angela Akyea (2017). Microbial Purification in Well-Water Using UV-Vis LEDs and Monitoring Using Laser-Induced Fluorescence. *Applied Physics Research*. <https://doi.org/10.5539/apr.v9n6p36>
11. G. Amoako, W. Zhang, M. Zhou, S. S. Sackey, P. Mensah-Amoah (2017). Rapid Laser Direct Writing of Plasmonic Components. *Applied Physics Research*. <https://doi.org/10.5539/apr.v9n6p19>
12. Sulemana S. Abukari, Frederick Sam, Samuel Y. Mensah, Natalia G. Mensah, Rabiou Musah, Anthony Twum, Patrick M. Amoah, Alfred Owusu (2016). Direct Current Generation in Carbon Nanotubes by Terahertz Field. *World Journal of Condensed Matter Physics*. <https://doi.org/10.4236/wjcmp.2016.61008>
13. George Amoako, Zhou Ming, Ye Rian, Patrick Mensah Amoah, Anthony Twum, Frederick Sam (2015). Connecting DNA origami structures using the biotin-streptavidin specific binding. *AFRICAN JOURNAL OF BIOTECHNOLOGY*. <https://doi.org/10.5897/ajb2015.14697>
14. Sulemana S. Abukari, Samuel Y. Mensah, Musah Rabiou, Kofi W. Adu, Natalia G. Mensah, Anthony Twum, Alfred Owusu, Kwadwo A. Dompok, Patrick Mensah-Amoah, Matthew Amekpewu (2015). High-Frequency Electric Field Induced Nonlinear Electron Transport in Chiral Carbon Nanotubes. *World Journal of Condensed Matter Physics*. <https://doi.org/10.4236/wjcmp.2015.54030>
15. Samuel S. Sackey, Michael K. Vowotor, Alfred Owusu, Patrick Mensah-Amoah, Ebenezer T. Tatchie, Baah Sefa-Ntiri, Christiana O. Hood, Sampson M. Atiemo (2015). Spectroscopic Study of UV Transparency of Some Materials. *Environment and Pollution*. <https://doi.org/10.5539/ep.v4n4p1>