Jerome Dela Lavie

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RESEARCH

Interests	Pyrolysis · Renewable Energy · Biofuels · Postharvest Technologies · Intellectual Property
Areas	Biomedical Engineering · Soil Science · Electrical and Electronic Engineering · Electronic, Optical and Magnetic Materials · Insect Science · Materials Chemistry

RESEARCH SUMMARY

9	37	2	1	1.00	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 9 publications listed below, 2025–2026. Field-weighted impact is the mean over the 7 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 7 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2024–present
Agricultural & Biosystems Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD Bioengineering 2022–2025
Agricultural & Biosystems Engineering, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 8

1. K Osei-Owusu, **JD Lavie**, I Arhin, I Amponsah (2026). Characterization of Selected Agricultural Waste Residues for Briquette Production. *Cureus Journal of Engineering*. https://www.researchgate.net/profile/Kwabena-Osei-Owusu/publication/409517359_pCharacterization_of_Selected_Agricultural_Waste_Residues_for_Briquette_Productionp/links/6a56bd14f8eec13a96bbb89c/pCharacterization-of-Selected-Agricultural-Waste-Residues-for-Briquette-Production-p.pdf
2. David Kabutey Akuaku, Kodwo Miezah, Shadrack Kwadwo Amponsah, **Jerome Dela Lavie**, Francis Kemausuor (2026). Composting dynamics and quality Characterization of cocoa husk Biochar–Based organic fertilizer. *Waste Management Bulletin*. https://doi.org/10.1016/j.wmb.2026.100312
3. Laari Philip Yaro, Francis Kemausuor, Michael Kweku Commeh, Ibrahim Hamidu, **Jerome Dela Lavie** (2026). Optimization Of Hydrochar Yield and Energy Content from Cassava and Plantain Peels Via Co-Hydrothermal Carbonisation. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v44i2.3
4. Kwabena Osei-Owusu, **Jerome Dela Lavie**, Ibrahim Arhin, Isaiah Amponsah (2026). Optimization of selected briquette parameters using response surface methodology. *Journal of the Saudi Society of Agricultural Sciences*. https://doi.org/10.1007/s44447-026-00154-8

5. **Jerome Dela Lavie**, Francis Kemausuor, Kwabena Owusu-Osei, Philip Y. Laari (2025). Assessment and characterisation of refuse-derived fuel biochar briquettes. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v25i1.242
6. **Jerome Dela Lavie**, Francis Kemausuor, Isaac Boye, Mathias Kwamena Anderson, Philip Yaro Laari, Ato Bart-Plange, Michael Kwesi Commeh (2025). Catalytic pyrolysis of refuse derived fuels with biomass-based and mineral catalysts. *Next Sustainability*. https://doi.org/10.1016/j.nxsust.2025.100177
7. **Jerome Dela Lavie**, Francis Kemausuor, Philip Yaro Laari, Janet Akohene, Lydia Asante-Mensah, Randy Joshua Sefa, Williams Mbaa, Michael Kweku Commeh (2025). Effects of Pyrolytic Char as A Soil Amendment on Soil Properties and Plant Growth. *Journal of Science and Technology (Ghana)*. https://doi.org/10.4314/just.v43i3.2
8. Benjamin Yennuna Konyannik, **Jerome Dela Lavie** (2025). Valorization techniques for biomass waste in energy Generation: A systematic review. *Bioresource Technology*. https://doi.org/10.1016/j.biortech.2025.132973

Reports 1

1. Annan, Ernestina, **Lavie, Jerome Dela** (2026). Towards a Net Zero Emission Pathway: A CLEWs-based Study of Ghana. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.18498806