# Joseph Ofei Darko

Department of Agricultural and Biosystems Engineering
Kwame Nkrumah University of Science and Technology

Profile knust.peerford.com/staff/28e18609-33dc-47b7-b292-04842e335427

## RESEARCH

Areas Plant Science · Mechanical Engineering · Biomedical Engineering · Food Science · Forestry · General Agricultural and Biological Sciences

## RESEARCH SUMMARY

| 11 | 52 | 3 | 2 | 1.01 | 9% |
|---|---|---|---|---|---|
| Publications | Citations | h-index | i10-index | Field-weighted impact | World top 10% |

Counted from the 11 publications listed below, 2016–2024. Field-weighted impact is the mean over the 11 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 11 papers scored for it are among the world's most cited tenth for their field, type and year.

## PUBLICATIONS

### Journal articles 9

1. Nana Yaa Serwaah Sarpong, Joseph Oppong Akowuah, **Joseph Ofei Darko**, Eric Asante Amoah (2024). A machine learning-driven modeling and optimization approach for enhancing cassava mash production quality in cassava graters. *Journal of Agriculture and Food Research*. https://doi.org/10.1016/j.jafr.2024.101406
2. Eric Amoah Asante, Joseph Oppong Akowuah, Eric Asante Amoah, **Joseph Ofei Darko** (2024). Enhancing cassava grater design: A customer-driven approach using AHP, QFD, and TRIZ integration. *Heliyon*. https://doi.org/10.1016/j.heliyon.2024.e36167
3. Francis Amoah, Emmanuel Y. H. Bobobee, Ahmad Addo, **Joseph O. Darko**, Joseph O. Akowuah (2022). A review of mechanical cassava peeling and its adoption by processors. *Journal of the Ghana Institution of Engineering (JGhIE)*. https://doi.org/10.56049/jghie.v22i1.37
4. Moomin Abu, Nana Sakyiwa Olympio, **Joseph Ofei Darko** (2021). Determination of Harvest Maturity for Mango (Mangifera indica L.) Fruit by Non-Destructive Criteria. *Agricultural Sciences*. https://doi.org/10.4236/as.2021.1210071
5. Moomin Abu, Nana S Olympio, **Joseph Ofei Darko** (2020). Appropriate harvest maturity for mango (Mangifera indica L.) fruit using age control and fruit growth and development attributes. *Horticulture International Journal*. https://doi.org/10.15406/hij.2020.04.00185
6. Moomin Abu, Nana Sakyiwa Olympio, **Joseph Ofei Darko** (2020). Effects of different storage temperature conditions on ripening quality and shelf life of mango (Mangifera indica) fruits in Ghana. *DOAJ (DOAJ: Directory of Open Access Journals)*. https://doi.org/10.22077/jhpr.2020.2846.1096
7. Joseph Stephen Sarpong, Michael Kweku Commeh, **Joseph Ofei Darko**, Isaiah Nimako Baah (2019). Evaluation of Briquettes Produced from Charred Sawdust, Corncob and Ricehusk. *The International Journal of Science & Technoledge*. https://doi.org/10.24940/theijst/2019/v7/i2/st1902-022
8. Dominic Aboagye, **Joseph Ofei Darko**, Noble Banadda (2017). Comparative study of hermetic and non-hermetic storage on quality of cowpea in Ghana. *Chemical and Biological Technologies in Agriculture*. https://doi.org/10.1186/s40538-017-0091-y
9. Seweh, E. A, Apuri, S., **Darko, J. O.**, Addo, A., Asagadunga, P. A., Agyegelone, S. D. (2016). Effect of Moisture on Some Physical Properties of Shea (Vitellaria Paradoxa L) Kernels. *Zenodo (CERN European*

*Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.21599555

**Book chapters** 2

1. Moomin Abu, Nana Sakyiwa Olympio, **Joseph Ofei Darko** (2024). Sensitivity of Haden, Kent, Palmer, and Keitt Mango (Mangifera indica L.) Fruits to Ambient and Transit Temperature Storage Conditions for Ripening and Shelf-life Studies. https://doi.org/10.9734/bpi/crpas/v5/2633
2. Moomin Abu, Nana Sakyiwa Olympio, **Joseph Ofei Darko** (2022). Harvest Maturity for Mango (Mangifera Indica L.) Fruit Based on Accumulated Day-Degrees (C), Rainfall Amount (mm), and Physical Fruit Development Properties. *Book Publisher International (a part of SCIENCEDOMAIN International)*. https://doi.org/10.9734/bpi/rhas/v1/16805d