Roseline Love MacArthur

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RESEARCH

Interests	Food and Postharvest Technology · Food Science · Food and Nutrition
Areas	Organic Chemistry · Analytical Chemistry · Biomedical Engineering · Ecology · Molecular Biology · Plant Science

RESEARCH SUMMARY

14	211	7	5	1.16	0%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 14 publications listed below, 2010–2026. Field-weighted impact is the mean over the 6 works scored for it; 1.00 is the world average for works of the same field, type and year. 0 of the 6 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Mrs
Department of Vocational and Technical Education, University of Cape Coast, Cape Coast, Ghana

EDUCATION AND QUALIFICATIONS

M.Phil. Geography and Tourism; M.Phil. Home Economics; PhD. Food and Post Harvest Technology-Food and Nutrition 2004–2023
Department of Geography and Tourism; Department of Vocational and Technical Education; Departmental of Agricultural Engineering, University of Cape Coast, Cape Coast, Ghana

PUBLICATIONS

Journal articles 12

1. Juliana Opoku Yeboah, **Roseline Love MacArthur**, Francis Padi Lamptey, Jerry Opoku-Ansah, Charles Lloyd Yeboah Amuah, Robert Agbemafle, Caleb Mawuli Agbale, Ernest Teye (2026). Exploring deep learning potential to authenticate vegetable oils and detect fraud using a micro-spectroscopic technique and chemometrics. *Analytical Methods*. https://doi.org/10.1039/d6ay00555a
2. Godfred Okyere-Prah, Paul A. Asare, Kwadwo K. Amoah, Kofi Atiah, Moses Teye, Alfred A. Darkwa, **Roseline L. Macarthur**, Michael O. Adu (2025). Optimizing Agronomic Zinc Biofortification in Carrots. *Plant-Environment Interactions*. https://doi.org/10.1002/pei3.70086
3. **Roseline Love MacArthur**, Ernest Teye, Sarah Darkwa (2021). Microbial contamination in palm oil selected from markets in major cities of Ghana. *Heliyon*. https://doi.org/10.1016/j.heliyon.2021.e07681
4. **Roseline MacArthur**, Ernest Teye, Sarah Darkwa (2021). Quality and safety evaluation of important parameters in palm oil from major cities in Ghana. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00860
5. Ernest Teye, Christabel Irene Deha, Rosemond Dadzie, **Roseline Love MacArthur** (2020). Delivering the Nutritional Needs by Food to Food Fortification of Staples Using Underutilized Plant Species in Africa.

International Journal of Food Science. https://doi.org/10.1155/2020/8826693

6. **Roseline Love MacArthur**, Ernest Teye, Sarah Darkwa (2020). Predicting adulteration of Palm oil with Sudan IV dye using shortwave handheld spectroscopy and comparative analysis of models. *Vibrational Spectroscopy*. https://doi.org/10.1016/j.vibspec.2020.103129
7. **Roseline Love MacArthur** (2016). Influence of age and education on nutritional knowledge and dietary choices among Chinese consumers in Shenyang. *Malaysian Journal of Nutrition*. https://maljnutr.org.my/publication/22-1/b.pdf
8. **RL Macarthur** (2016). Opposite effects of two-derived antioxidants from Physalis pubescens L. On hepatocellular carcinoma cell line Malhavu. *Current Pharmaceutical Biotechnology*. https://www.ingentaconnect.com/content/ben/cpb/2016/00000017/00000013/art00003
9. **Roseline Love MacArthur** (2015). Food choice behaviour of Chinese consumers in Shenyang, Liaoning Province. *Modern Economy*. https://www.academia.edu/download/72619050/5a47d0dddb9c5a9b11df3eb0465cc3cd961f.pdf
10. **Roseline Love MacArthur** (2015). Modulation of Actinidia arguta fruit ripening by three ethylene biosynthesis inhibitors. *Food Chemistry*. https://doi.org/10.5555/20153014129
11. **Roseline Love MacArthur** (2013). Assessing the tourism potential of Ghanaian local cuisine for tourism promotion. *International Journal of Home Economics,*.
12. **Roseline Love MacArthur** (2010). Compliance with food safety measures by traditional caterers in the Cape Coast Municipality. *International Journal of the Home Economics,*. https://datad.aau.org/items/c82ef697-1671-4f0f-8d22-b2197ace6344

Reports 2

1. **Roseline MacArthur**, AFA Marfo, A Brobbey, AO Antwi, MK Baah, E Bessah, Gordon A Awandare (2021). Scientific African. *Scientific African*. https://www.researchgate.net/profile/Temitope-D-Timothy-Oyedotun/publication/356402866_Household_Waste_Generation_Change_in_Waste_Composition_and_the_Exposure_to_COVID-19_in_Guyana_and_Nigeria/links/619fb8b1d7d1af224b241a9b/Household-Waste-Generation-Change-in-Waste-Composition-and-the-Exposure-to-COVID-19-in-Guyana-and-Nigeria.pdf?_sg%5B0%5D=started_experiment_milestone&origin=journalDetail
2. **Roseline Love MacArthur** (2014). Food and nutrition for schools and colleges. *Adwinsa Publications (Gh) Ltd.*.