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RESEARCH

Interests	Biopharmaceutics and Pharmaceutical Technology
Areas	Food Science · Plant Science · Public Health, Environmental and Occupational Health · Forestry · Economics and Econometrics · Pharmaceutical Science

RESEARCH SUMMARY

51	537	11	12	1.43	14%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 51 publications listed below, 1975–2026. Field-weighted impact is the mean over the 28 works scored for it; 1.00 is the world average for works of the same field, type and year. 4 of the 28 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer/Prof
Pharmaceutics, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

PUBLICATIONS

Journal articles 50

1. **R Johnson** (2026). 579 MI-SMART: Implementing a Consensus-Based Medical Clearance Pathway for Inpatient Psychiatric Admissions. *Annals of Emergency Medicine*. https://www.annemergmed.com/article/S0196-0644(26)01148-0/abstract
2. Mary-Ann Archer, Kwabena Ofori-Kwakye, **Raphael Johnson**, Ernest Amponsah Asiamah, Wisdom Ahlidja, Mustapha Abubakar Ahmed, Isaac Tabiri Henneh (2026). Assessment of the Safety Profile of Purified Pentadesma butyracea (Clusiaceae) Gum Intended as a Pharmaceutical Excipient. *Journal of Toxicology*. https://doi.org/10.1155/jt/4227246
3. Winifred Naa Adoley, **Raphael Johnson**, Mariam El Boakye-Gyasi, Frederick William Akuffo Owusu, Lawrence Michael Obeng, Antwi Osei-Asibey, Kofi Acheampong Asamoa Mensa, Felix Kwame Zoiku (2026). Formulation and Evaluation of Capsules From Azadirachta indica and Khaya senegalensis for Malaria Treatment. *Journal of Tropical Medicine*. https://doi.org/10.1155/jotm/8366410
4. Mary-Ann Archer, Kwabena Ofori-Kwakye, **Raphael Johnson**, Isaac Yaw Attah, Frederick William Akuffo Owusu, Prince George Jnr Acquah, Samuel Lugrie Kipo (2026). Investigation of the drug release modifying property of Pentadesma butyracea gum in diclofenac sodium matrix tablets. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0341668
5. Mary-Ann Archer, Kwabena Ofori-Kwakye, **Raphael Johnson**, Frederick William Akuffo Owusu, Yaa Asantewaa Osei, Sophia Kusi-Addai, Kezia Nyarkoh, Noble Kuntworbe (2026). Pharmaceutical Evaluation of the Suspending Properties of Pentadesma butyracea Gum in Biphasic Liquid Preparations of Diffusible and Indiffusible Powders. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/adpp/2120600
6. Lawrence Michael Obeng, Yaa Asantewa Osei, Noble Kuntworbe, Frederick William Akuffo Owusu, **Ralph Johnson**, K. A. Asamoa Mensa, Osei-Asibey Antwi, Winifred Naa Adoley (2026). Quality and Interbatch

Consistency Assessment of Selected Herbal Capsules Sold in the Kumasi Metropolis of Ghana. *Journal of Chemistry*. https://doi.org/10.1155/joch/6766388

7. Mary-Ann Archer, Kwabena Ofori-Kwakye, **Raphael Johnson**, Isaac Yaw Attah, Samuel Lugrie Kipo, Mariam El Boakye-Gyasi, Frederick William Akuffo Owusu, Emmanuel Awintiig Adakudugu, Doris Kumadoh (2025). Evaluation of the binder effect of Pentadesma butyracea gum on the mechanical characteristics of paracetamol tablets. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e03147
8. Prince George Acquah Jnr, Mariam El Boakye-Gyasi, Frederick William Akuffo Owusu, Desmond Asamoah Bruce Otu, **Raphael Johnson**, Marcel Tunkumgnen Bayor (2025). Extraction and Comparative Assessment of the Physicochemical Properties of Pectin From Four Fruit Wastes in Ghana. *Scientifica*. https://doi.org/10.1155/sci5/9954324
9. K Ofori-Kwakye, **R Johnson**, M El Boakye-Gyasi, YA Osei (2025). Formulation and Evaluation Of Poly Herbal Anti-Diabetic Capsule Dosage Form. *Indonesian Journal of Pharmaceutics*. https://www.researchgate.net/profile/Ernest-Aggrey/publication/414687828_Formulation_and_Evaluation_Of_Poly_Herbal_Anti-Diabetic_Capsule_Dosage_Form/links/6ab4a504756a0b12f4f32f9c/Formulation-and-Evaluation-Of-Poly-Herbal-Anti-Diabetic-Capsule-Dosage-Form.pdf
10. Osei-Asibey Antwi, Mariam Boakye-Gyasi, Yaw Boakye, **Raphael Johnson**, Frederick Owusu, Eugene Aboagye, Lawrence Obeng, Kofi Asamoa, Winifred Adoley (2025). Formulation and evaluation of topical gels containing Phyllanthus muellerianus leaf extract using various gelling agents. *Journal of Pharmacy*. https://doi.org/10.31436/jop.v5i2.371
11. Desmond A.B. Otu, Frederick W.A. Owusu, Mariam E. Boakye-Gyasi, **Raphael Johnson**, Marcel T. Bayor, PGA Jnr, Yayra Edzor-Agbo, Mary-Ann Archer (2025). Pharmaceutical evaluation of plantain peel pectin as a disintegrant in conventional tablets. *South African Journal of Science*. https://doi.org/10.17159/sajs.2025/18894
12. Frederick William Akuffo Owusu, Prince George jnr Acquah, Mariam El Boakye-Gyasi, **Raphael Johnson**, Marcel Tunkumgnen Bayor, Desmond Asamoah Bruce Otu, Samuel Nartey, Pearl Osei Akoto (2025). Sweet Potato Peel Pectin's Potential as a Suspending Agent in Pharmaceutical Formulations: The Effect of Extraction Technique. *Journal of Pharmacy*. https://doi.org/10.31436/jop.v5i1.325
13. Desmond Asamoah Bruce Otu, Frederick William Akuffo Owusu, Mariam El Boakye-Gyasi, **Raphael Johnson**, Prince George Jnr Acquah, Yayra Edzor-Agbo, Marcel Tunkumgnen Bayor, Mary-Ann Archer (2024). Biogenic Waste from Two Varieties of Plantain in Ghana Contain Pectin with Potential Binding Properties in Conventional Tablets. *The Scientific World JOURNAL*. https://doi.org/10.1155/2024/5461358
14. Simon Nyarko, Kwabena Ofori-Kwakye, **Raphael Johnson**, Noble Kuntworbe, Desmond Asamoah Bruce Otu, Denis Dekugmen Yar, Yaa Asantewaa Osei (2024). Development of the RP-HPLC Method for Simultaneous Determination and Quantification of Artemether and Lumefantrine in Fixed-Dose Combination Pharmaceutical Dosage Forms. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2024/3212298
15. Desmond Asamoah Bruce Otu, Frederick William Akuffo Owusu, Prince George Jnr Acquah, Mariam El Boakye-Gyasi, Yayra Edzor-Agbo, **Raphael Johnson**, Marcel Tunkumgnen Bayor, Mary-Ann Archer (2024). Effect of Ripening and Extraction Method on the Physicochemical Properties of Pectin Extracted from Peels of Apem and Apantu Plantain Cultivars in Ghana. *Journal of Chemistry*. https://doi.org/10.1155/2024/6677179
16. Samuel Lugrie Kipo, Noble Kuntworbe, Mariam El Boakye-Gyasi, Yaa Asantewaa Osei, Frederick William Akuffo Owusu, **Raphael Johnson**, Kwabena Ofori-Kwakye, Marcel Tunkumgnen Bayor (2024). Evaluation of the Physicochemical and Micromeritic Properties of Exudate Gum of Cussonia arborea Stem Bark in Conventional Tablet Formulation. *Journal of Chemistry*. https://doi.org/10.1155/2024/7840644
17. Simon Nyarko, Kwabena Ofori-Kwakye, **Raphael Johnson**, Noble Kuntworbe, Denis Dekugmen Yar (2024). Investigating the Presence of Falsified and Poor-Quality Fixed-Dose Combination Artemether-Lumefantrine Pharmaceutical Dosage Forms in Kumasi, Ghana. *Advances in Pharmacological and Pharmaceutical Sciences*. https://doi.org/10.1155/2024/2650540

18. **R Johnson**, YA Osei, FWA Owusu (2024). The Potential of Allanblackia floribunda Butter as a Suppository Base. *Trends in Pharmaceutical Sciences and Technologies*. https://tips.sums.ac.ir/article_50026.html

19. Gideon Onuh, Joseph K. Adu, Samuel O. Bekoe, **Raphael Johnson**, Reimmel K. Adosraku, Samuel Asare-Nkansah (2023). Bioequivalence studies of cetirizine tablets using the urine excretion data of healthy Ghanaian male volunteers. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e12665

20. Frederick William Akuffo owusu, K Ofori-Kwakye, **R Johnson**, Isaac Yaw Attah, Emmanuel Adakudugu (2023). C41-Investigation of the binding properties of purified Pentadesma butyracea gum: Anatural alternative to a synthetic polymer. *Journal Africain de Technologie Pharmaceutique et Biopharmacie (JATPB)*. https://www.soapgi-jatpb.org/index.php/jatpb/article/view/72

21. Stephen Y. Gbedema, **R Johnson**, YA Osei, YD Boakye, FWA Owusu (2023). Efficacy of Disinfectants Commonly used in some Medical Facilities in Kumasi, Ghana. *Journal of Science and Technology*. https://journal.knust.edu.gh/index.php/just/article/view/1468

22. Julia Afrakoma Ansong, Emmanuel Asante, **Raphael Johnson**, Mariam El Boakye-Gyasi, Noble Kuntworbe, Frederick William Akuffo Owusu, Kwabena Ofori-Kwakye (2023). Formulation and Evaluation of Herbal-Based Antiacne Gel Preparations. *BioMed Research International*. https://doi.org/10.1155/2023/7838299

23. Frederick William Akuffo Owusu, Prince George Jnr Acquah, Mariam E. L. Boakye-Gyasi, **Raphael Johnson**, Genevieve Naana Yeboah, Mary-Ann Archer, Mercy Birago Antwi, Sandra Obenewaa Asare (2023). Pharmaceutical Assessment of the Impact of the Method of Extraction on the Suitability of Pectin from Plantain (Musa paradisiaca) Peels as a Suspending Agent in Oral Liquid Formulations. *The Scientific World JOURNAL*. https://doi.org/10.1155/2023/8898045

24. Samuel Lugrie Kipo, Kwabena Ofori-Kwakye, Noble Kuntworbe, **Raphael Johnson**, Mariam El Boakye-Gyasi, Yaa Asantewaa Osei, Frederick Akuffo Owusu (2023). Physicochemical and Microbiological Characteristics of Stem Bark Exudate Gum of Cordia millenii Tree in Conventional Release Tablets. *The Scientific World JOURNAL*. https://doi.org/10.1155/2023/9118067

25. Christopher Sarpong, Marcel Tunkumgnen Bayor, **Raphael Johnson**, Maruf Abdullai Yakubu, Mariam El Boakye-Gyasi, Stephen Yao Gbedema, Frederick William Akuffo Owusu (2023). The Consumption of Energy Drink and Its Potential Effect on Sleep Patterns: A Case Study in the Kumasi Metropolis. *Journal of Pharmaceutical Care*. https://doi.org/10.18502/jpc.v11i2.13364

26. Mary Konadu, **Raphael Johnson**, Yaa Asantewaa Osei, James Korang, Frederick William Akuffo Owusu (2023). The Impact of the Extraction Method on Allanblackia floribunda Butter's Physicochemical Properties as a Possible Pharmaceutical Excipient. *Journal of Chemistry*. https://doi.org/10.1155/2023/3274666

27. **Raphael Johnson**, Princesca Delpe, Timothy R. Chu, Kanika Arora, Brittany Lord, Akanksha Verma, Deepa Bedi, Balasubramanyam Karanam, Isra Elhussin, Yalei Chen and 37 others (2022). African Ancestry–Associated Gene Expression Profiles in Triple-Negative Breast Cancer Underlie Altered Tumor Biology and Clinical Outcome in Women of African Descent. *Cancer Discovery*. https://doi.org/10.1158/2159-8290.cd-22-0138

28. Ayesu Djakari Henry, Kuntworbe Noble, Sekyere Michael, **Johnson Raphael**, Owusu Frederick William Akuffo, Entsie Philomena, Amankwah Francis, Ofori-Kwakye Kwabena (2022). Investigation of the physicochemical properties of freeze-dried fruit pulp of Telfairia occidentalis and its potential use as suspending agent. *Heliyon*. https://doi.org/10.1016/j.heliyon.2022.e09997

29. Frederick William Akuffo Owusu, Mariam El Boakye-Gyasi, **Raphael Johnson**, Yaa Asantewaa Osei, Emmanuel Asante, Desmond Asamoah Bruce Otu, Julia Afrakoma Ansong, Philomena Entsie, Marcel Tunkumgnen Bayor (2022). Pharmaceutical Assessment of Melia azedarach Gum as a Binder and Disintegrant in Immediate-Release Tablets. *The Scientific World JOURNAL*. https://doi.org/10.1155/2022/9810099

30. Frederick William Akuffo Owusu, Mariam El Boakye-Gyasi, Marcel Tunkumgnen Bayor, Christina Osei-Asare, **Raphael Johnson**, Yaa Asantewaa Osei, Victoria Agyeibea Asare, Kezia Akoley Mensah, Prince George Acquah, Desmond Asamoah Bruce Otu, Rocklyn Asante (2022). Pharmaceutical Assessment of Watermelon Rind Pectin as a Suspending Agent in Oral Liquid Dosage Forms. *BioMed Research*

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31. Sufyan Yahaya Adam, **Raphael Johnson**, Frederick William Akuffo Owusu, Gloria Anka-Brewoo (2022). Quality and Safety Assessment of Omega-3 Fatty Acids Supplements on the Ghanaian Market. *Chemistry Africa*. https://doi.org/10.1007/s42250-022-00381-w
32. Daniel A. Bartels, **Raphael Johnson**, Marcel T. Bayor, George K. Ainooson, Paul P. S. Ossei, Rashid K. Etuaful, Richard Buamah (2021). Formulation of Suppositories of Alum Produced from Bauxite Waste in Ghana for the Treatment of Hemorrhoid. *The Scientific World JOURNAL*. https://doi.org/10.1155/2021/6667562
33. **R. Johnson** * (2021). The African baobab seed oil and its potential for solubilising poorly soluble drugs. *International Journal of Pharmaceutical Sciences and Research*.
34. **J Raphael**, MT Bayor, K Ofori-Kwakye (2020). Formulation and evaluation of clarithromycin-loaded self-micro emulsified drug delivery system. *International Journal of Pharmaceutical Sciences and Research*. https://scholar.google.com/scholar?cluster=16103507635953745397&hl=en&oi=scholarr
35. **J Raphael**, K Ofori-Kwakye (2019). Self-micro emulsifying drug delivery system: a potential solution to the challenges of oral delivery of poorly water-soluble drugs. *International Journal of Pharmaceutical Sciences Review and Research*.
36. **Raphael Johnson** (2018). Arenophile-mediated dearomative functionalization strategies. *Synlett*. https://doi.org/10.1055/s-0036-1591940
37. Noble Kuntworbe, Francis A. Acquah, **Raphael Johnson**, Kwabena Ofori-Kwakye (2018). Comparison of the physicochemical properties and in vivo bioavailability of generic and innovator artemether-lumefantrin tablets in Kumasi, Ghana. *Journal of Pharmacy & Pharmacognosy Research*. https://doi.org/10.56499/jppres17.332_6.3.167
38. N Kuntworbe, **R Johnson**, K Ofori-Kwakye (2017). Qualitative and quantitative assessment of cryptolepis-based herbal formulations within the Accra and Kumasi metropolis in Ghana. *Journal of Innovations in Pharmaceutical and Biological Sciences (JIPBS)*. https://scholar.google.com/scholar?cluster=13188464241186120718&hl=en&oi=scholarr
39. **R Johnson** (2016). Target Nanoparticles for Therapy-SANS and DLS of Drug Carrier Liposomes and Polymer Nanoparticles. *Journal of Physics: Conference Series*. https://doi.org/10.1088/1742-6596/746/1/012069
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41. **R Johnson** (2015). Fasted-State Simulated Intestinal Fluid “FaSSIF-C”, a Cholesterol Containing Intestinal Model Medium for In Vitro Drug Delivery Development. *Journal of pharmaceutical sciences*. https://doi.org/10.1002/jps.24470
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45. Yaa Asantewaa Osei, K Ofori-Kwakye, SL Kipo, VE Boamah, **R Johnson** (2011). Investigation of the emulsifying and suspending potential of cashew tree gum in pharmaceutical formulations. *International journal of Pharmacy and Pharmaceutical sciences*. https://www.academia.edu/download/53018283/Investigation_of_the_emulsifying_and_sus20170506-5074-1h2e823.pdf
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Reports 1

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