

yaw boahen

Professor · Department of Chemistry
University of Cape Coast

Google Scholar scholar.google.com/citations?user=aDQJWMIAAAAJ&hl=en · Profile scholar.ucc.edu.gh/staff/4fd129a2-a63c-415c-bcd6-1505a6d49b30

RESEARCH

Interests Organic Chemistry · Natural Products · Phytochemistry · Synthesis · Organic Spectroscopy

Areas Plant Science · Molecular Biology · Organic Chemistry · Biochemistry · Biochemistry · Genetics

RESEARCH SUMMARY

21

Publications

944

Citations

8

h-index

8

i10-index

0.89

Field-weighted
impact

20%

World top 10%

Counted from the 21 publications listed below, 1998–2025. Field-weighted impact is the mean over the 10 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 10 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 19

1. Samuel Asiamah Obiri, Denzel Opoku-Kwabi, Yaw Opoku-Boahen, Francis Ackah Armah, Malcolm Patrick Fynn, Lawrence Sheringham Borquaye, Isaac Asiamah (2025). Crude alkaloids from *Phyllanthus fraternus*, Webster: Antibacterial, time-kill kinetics and resistance modulation studies. *Pharmacological Research - Natural Products*. <https://doi.org/10.1016/j.prenap.2025.100312>
2. VICTOR YA BARKU, YAW OPOKU-BOAHEN (2020). AJ CsiAN OURNALOF HEMISTRY AJ CsiAN OURNALOF HEMISTRY. *Asian Journal of Chemistry*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/56fca0f5-bebf-42e9-8341-a0a8e62af398/content>
3. Victor Y.A. Barku, Yaw Opoku-Boahen, Vida Ackon (2020). Citrus sinensis Seed as a Potential Source of Quality Edible and Industrial Oil. *Asian Journal of Chemistry*. <https://doi.org/10.14233/ajchem.2020.22559>
4. Yaw Opoku-Boahen, GE Adukpo, FA Armah (2016). Anti-inflammatory and antioxidant activities of canthinone alkaloids from *Anthostema aubryanum* (Baill). *Nat Prod Plant Resour*. https://www.researchgate.net/profile/Malcolm-Fynn/publication/302328395_Anti-inflammatory_and_antioxidant_activities_of_canthinone_alkaloids_from_Anthostema_aubryanum_Baill/links/5731fd7108ae9ace84047656/Anti-inflammatory-and-antioxidant-activities-of-canthinone-alkaloids-from-Anthostema-aubryanum-Baill.pdf
5. Yaw Opoku Boahen (2015). Colorimetric determination of carbohydrates in some brands of beer in Ghana as an indication of their glycemic index in the management of diabetes type II. *African Journal of Food Science and Technology*. <https://doi.org/10.14303/ajfst.2015.066>
6. Victor Yao Atsu Barku, Yaw Opoku-Boahen, Gertrude A Dali (2015). Ethnobotanical study of wound healing plants in Kpando Traditional Area, Ghana. *International Journal of Phytomedicine*.
7. Y Opoku-Boahen, R Clemente, D Wubah (2014). Investigation of *Cucumeropsis mannii* N. seed oil as potential biodiesel feedstock. *International Journal of Biological and Chemical Sciences*. <https://doi.org/10.4314/ijbcs.v7i4.32>
8. Yaw Opoku Boahen, John Mann (2014). Synthesis and Evaluation of Quindoline and Its Analogue as Potential Anticancer Agents. *Chemistry of Natural Compounds*. <https://doi.org/10.1007/s10600-014-0995-8>
9. VYA Barku, Y Opoku-Boahen (2013). Available online at www.pelagiaresearchlibrary.com. *Asian Journal*

of Plant Science and Research. <https://ir.ucc.edu.gh/server/api/core/bitstreams/c609ecca-3c0b-4fa7-a3db-4287b44b8e63/content>

10. VYA Barku, Yaw Opoku-Boahen, F Mensah (2013). In-vitro assessment of antioxidant and antimicrobial activities of methanol extracts of six wound healing medicinal plants. *In-Vitro*. https://www.academia.edu/download/30633141/In-Vitro_Assessment_of_Antioxidant_and_Antimicrobial_Activities_of_Methanol_Extracts_of_Six_Wound_Healing_Medicinal_Plants.pdf
11. Y Opoku-Boahen, BD Novick, D Wubah (2013). Physicochemical characterization of traditional Ghanaian cooking oils, derived from seeds of Egusi (*Citrullus colocynthis*) and Werewere (*Cucumeropsis manni*). *International Journal of Biological and Chemical Sciences*. <https://doi.org/10.4314/ijbcs.v7i1.34>
12. John Prosper Kwaku Adotey, Genevieve Etornam Adukpo, Yaw Opoku Boahen, Frederick Ato Armah (2012). A Review of the Ethnobotany and Pharmacological Importance of *Alstonia boonei* De Wild (Apocynaceae). *ISRN Pharmacology*. <https://doi.org/10.5402/2012/587160>
13. Y Opoku-Boahen (2012). The quality and infrared determination of trans-fatty acid contents in some edible vegetable oils. *African Journal of Food Science and Technology*. <https://ir.ucc.edu.gh/server/api/core/bitstreams/c7e7eaa5-07d8-4ef8-bfc8-76382c5c6283/content>
14. Y. Opoku-Boahen, V. Y. Atsu Barku, Andrew Dobson (2011). Characterisation of fatty acids in the roots of *Cryptolepis sanguinolenta*. *Chemistry of Natural Compounds*. <https://doi.org/10.1007/s10600-011-0036-9>
15. HK Akotoye, YO Boahen (2007). The effect of environmental factors on the total alkaloid contents of *Cryptolepis sanguinolenta* (Lindl.) Schtr. *International Journal of Chemical Sciences*. <https://doi.org/10.5555/20073203315>
16. F. S. Tayman, V. Y. Atsu Barku, Y. Opoku-Boahen, K. Seifert, D. Grote (2006). Isolation of ent-labdane (+)-12,15-epoxylabda-8(17), 12,14-trien-16-yl acetate from the seeds of *Turraeanthus africanus* and its cytostatic/cytotoxic effect on the growth of cancer cells in vitro. *Chemistry of Natural Compounds*. <https://doi.org/10.1007/s10600-006-0033-6>
17. Yaw Opoku-Boahen (2001). A new class of symmetric bisbenzimidazole-based DNA minor groove-binding agents showing antitumor activity. *Journal of medicinal chemistry*. <https://pubs.acs.org/jmcmar/article-abstract/44/2/138/3561105>
18. Yaw Opoku-Boahen (2000). A novel inhibitor of human telomerase derived from 10H-indolo [3, 2-b] quinoline. *Bioorganic & medicinal chemistry letters*. <https://www.sciencedirect.com/science/article/pii/S0960894X00003784>
19. Yaw Opoku-Boahen (1999). Symmetric bis-benzimidazoles: new sequence-selective DNA-binding molecules. *Chemical Communications*. <https://pubs.rsc.org/cc/article-abstract/35/10/929/141665>

Reports 1

1. VYA Barku, Y Opoku-Boahen (2013). Antioxidant activity and the estimation of total phenolic and flavonoid contents of the root extract of *Amaranthus spinosus*. *University of Cape Coast*. <https://ir.ucc.edu.gh/items/7ed8752f-17e6-48bf-a573-748bcd334084>

Theses 1

1. Yaw Opoku-Boahen (1998). Synthesis of analogues of quindoline and other DNA minor groove binders. *University of Reading*. <https://scholar.google.com/scholar?cluster=11445542453928475016&hl=en&oi=scholar>