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RESEARCH

Areas: Endocrinology, Diabetes and Metabolism · Plant Science · Cancer Research · Immunology · Pharmacology · Biomaterials

RESEARCH SUMMARY

24	356	9	8	2.39	33%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 24 publications listed below, 2002–2026. Field-weighted impact is the mean over the 15 works scored for it; 1.00 is the world average for works of the same field, type and year. 5 of the 15 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

University of Cape Coast
Cape Coast, Ghana

PUBLICATIONS

Journal articles 20

1. Prince Amoah Barnie, Karen Pomeyie, Benjamin Amoani, Foster Kyei, Abdala Ussif Mumuni, Justice Afrifa, Samuel Essien-Baidoo, **Daniel Boison** (2026). CD4+T cell metabolic reprogramming as therapeutic targets in neurodegenerative diseases. *Molecular Brain*. https://doi.org/10.1186/s13041-026-01282-6
2. Tashie Evangeline Ngwanguong, Cynthia Ayefoumi Adinortey, Patrick Opare Sakyi, Gerald Ngo Teke, Lifoter Kenneth Navti, **Daniel Boison**, Ekow Sekyi Etwire, Eric Gyamerah-Ofori, Rosemary Agbeko, Samuel Kojo Kwofie, Michael Buenor Adinortey (2026). In Silico identification of bioactive compounds from Syzygium guineense (Willd.) DC. var. guineense as potential DNA gyrase inhibitors against Salmonella Typhi. *In Silico Research in Biomedicine*. https://doi.org/10.1016/j.insi.2026.100544
3. Eric Gyamerah Ofori, Foster KYEI, Cynthia Ayefoumi Adinortey, Ansumana Sandy Bockarie, **Daniel Boison**, Michael Buenor Adinortey (2025). Helicobacter pylori: Detection of dupA, iceA and cagE genes in Ghanaian patients with dyspepsia. *International Journal of Biological and Chemical Sciences*. https://www.ajol.info/index.php/ijbcs/article/view/304061
4. B Amoani, SA Sakyi, **D Boison**, CA Adinortey, JK Turzin, Prince A Barnie (2025). High antibiotic resistance and elevated plasma IFNγ from type 2 diabetes mellitus (T2DM) patients with uropathogens visiting Cape Coast Teaching Hospital. *Health Sciences Investigations Journal*. https://www.ajol.info/index.php/hsij/article/view/307677
5. Karen Pomeyie, Francis Abrokwah, **Daniel Boison**, Benjamin Amoani, Foster Kyei, Cynthia A. Adinortey, Prince Amoah Barnie (2025). Macrophage immunometabolism dysregulation and inflammatory disorders. *Biomedicine & Pharmacotherapy*. https://doi.org/10.1016/j.biopha.2025.118142
6. **Daniel Boison**, Prince Amoah Barnie, Michael Buenor Adinortey, Cynthia Ayefoumi Adinortey (2025). Providing credence to the ethnomedicinal value of Gomphrena celosioides Mart: a systematic review. *Int. J. Biol. Chem. Sci*. https://scholar.archive.org/work/mg3hegzjv5gbbgnvrjro72aofq/access/wayback/https://www.ajol.info/index.php/ijbcs/article/download/297771/280044

7. **Daniel Boison**, Derrick Owusu, Robertson Akrofi, Prince Amoah Barnie, Rosemary Agbeko, Felix Fynn, Tashie Evangeline Ngwanguong, Michael Buenor Adinortey, Cynthia Ayefoumi Adinortey (2025). Review Paper : Providing credence to the ethnomedicinal value of Gomphrena celosioides Mart: a systematic review. *International Journal of Biological and Chemical Sciences*. https://doi.org/10.4314/ijbcs.v19i1.25

8. Michael Buenor Adinortey, Charles Ansah, Jerry Asiedu-Larbi, Samuel Kojo Kwofie, Ansumana Sandy Bockarie, Precious Barnes, Benjamin Aboagye, Gideon Kofi Helegbe, **Daniel Boison**, Alexander Kwadwo Nyarko (2022). In vivo inhibition of gastric acid secretions and H+/K+- ATPase activity, and enhancement of mucin activity by Dissotis rotundifolia plant extract. *Scientific African*. https://doi.org/10.1016/j.sciaf.2022.e01317

9. Cynthia A. Adinortey, Gabriel B. Kwarko, Russell Koranteng, **Daniel Boison**, Issaka Obuaba, Michael D. Wilson, Samuel K. Kwofie (2022). Molecular Structure-Based Screening of the Constituents of Calotropis procera Identifies Potential Inhibitors of Diabetes Mellitus Target Alpha Glucosidase. *Current Issues in Molecular Biology*. https://doi.org/10.3390/cimb44020064

10. **Daniel Boison**, Samuel Addo Akwetey, Silas Acheampong Osei, Samuel Kelechi, Prince Amoah Barnie (2022). Nasal colonization of methicillin-resistant Staphylococcus aureus in HIV-infected patients at the Cape Coast Teaching Hospital, Ghana. *Frontiers in Tropical Diseases*. https://doi.org/10.3389/fitd.2022.976567

11. Samuel Kojo Kwofie, Dorothy Gyamfua Annan, Cynthia Ayefoumi Adinortey, **Daniel Boison**, Gabriel Brako Kwarko, Rachel Araba Abban, Michael Buenor Adinortey (2021). Identification of novel potential inhibitors of varicella-zoster virus thymidine kinase from ethnopharmacologic relevant plants through an in-silico approach. *Journal of Biomolecular Structure and Dynamics*. https://doi.org/10.1080/07391102.2021.1977700

12. Ibrahim Luru Abdulai, Samuel Kojo Kwofie, Winfred Seth Gbewonyo, **Daniel Boison**, Joshua Buer Puplampu, Michael Buenor Adinortey (2021). Multitargeted Effects of Vitexin and Isovitexin on Diabetes Mellitus and Its Complications. *The Scientific World JOURNAL*. https://doi.org/10.1155/2021/6641128

13. **Daniel Boison**, Cynthia Ayefoumi Adinortey, Godwin Kweku Babanyinah, Olga Quasie, Rosemary Agbeko, Gilbert Kofi Wiabo-Asabil, Michael Buenor Adinortey (2019). Costus afer: A Systematic Review of Evidence-Based Data in support of Its Medicinal Relevance. *Scientifica*. https://doi.org/10.1155/2019/3732687

14. Michael Buenor Adinortey, Rosemary Agbeko, **Daniel Boison**, William Ekloh, Lydia Enyonam Kuatsienu, Emmanuel Ekow Biney, Obed O. Affum, Jeffery Kwarteng, Alexander Kwadwo Nyarko (2019). Phytomedicines Used for Diabetes Mellitus in Ghana: A Systematic Search and Review of Preclinical and Clinical Evidence. *Evidence-based Complementary and Alternative Medicine*. https://doi.org/10.1155/2019/6021209

15. **Daniel Boison** (2016). A Mn (II) complex of boradiazaindacene (BODIPY) loaded graphene oxide as both LED light and H2O2 enhanced anticancer agent. *Journal of Inorganic Biochemistry*. https://www.sciencedirect.com/science/article/pii/S0162013416300320

16. **Daniel Boison**, Wen-Long Lu, Qin-Mei Xu, Huang Yang, Tao Huang, Qiu-Yun Chen, Jing Gao, Yao Zhao (2016). A mitochondria targeting Mn nanoassembly of BODIPY for LDH-A, mitochondria modulated therapy and bimodal imaging of cancer. *Colloids and Surfaces B Biointerfaces*. https://doi.org/10.1016/j.colsurfb.2016.08.024

17. **Daniel Boison** (2016). Evaluation on the inhibition of pyrrol-2-yl ethanone derivatives to lactate dehydrogenase and anticancer activities. *Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy*. https://www.sciencedirect.com/science/article/pii/S138614251630172X

18. **DANIEL BOISON** (2015). 积雪草酸对结肠癌 HCT116 细胞增殖及自噬水平的影响. *江苏大学学报(医学版)*. https://scholar.google.com/scholar?cluster=9854621548849299967&hl=en&oi=scholarr

19. Ernest Teye, Xingyi Huang, Livingstone K. Sam-Amoah, Jemmy Takrama, **Daniel Boison**, Francis Botchway, Francis Kumi (2014). Estimating cocoa bean parameters by FT-NIRS and chemometrics analysis. *Food Chemistry*. https://doi.org/10.1016/j.foodchem.2014.12.042

20. **D Boison** (2002). JP Issberner, CL Schauer, BA Trimmer and DR Walt (USA). *Journal of Neuroscience Methods*. https://scholar.google.com/scholar?cluster=11058819507438366276&hl=en&oi=scholarr

Book chapters 2

1. Prince Amoah Barnie, **Daniel Boison**, Benjamin Amoani, Su Zhaoliang (2025). Biomarkers in Colon Cancer Metastasis. *Handbook of Cancer and Immunology*. https://doi.org/10.1007/978-3-032-00763-6_151
2. Prince Amoah Barnie, **Daniel Boison**, Benjamin Amoani, Su Zhaoliang (2023). Biomarkers in Colon Cancer Metastasis. *Handbook of Cancer and Immunology*. https://doi.org/10.1007/978-3-030-80962-1_151-1

Reports 1

1. **Daniel Boison**, Michael Buenor Adinortey (2019). A Systematic Review of Evidence-Based Data in support of Its Medicinal Relevance. *University of Cape Coast*. https://ir.ucc.edu.gh/items/8119920e-75dc-431e-bd2b-b402bee2b26a

Theses 1

1. **Daniel Boison** (2016). 磁性纳米分子 PEG-Mn-BDA 选择性抑制肿瘤的线粒体机制及其荧光和核磁共振成像的初步研究. *江苏大学*. https://scholar.google.com/scholar?cluster=9414954844877019 86&hl=en&oi=scholarr