Michael Baah Mensah

Department of Chemistry
Kwame Nkrumah University of Science and Technology

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RESEARCH

Interests: Nanotechnology

Areas: Electrical and Electronic Engineering · Materials Chemistry · Water Science and Technology · Biochemistry · Biomedical Engineering · Epidemiology

RESEARCH SUMMARY

21	315	9	8	1.21	12%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 21 publications listed below, 2013–2026. Field-weighted impact is the mean over the 17 works scored for it; 1.00 is the world average for works of the same field, type and year. 2 of the 17 papers scored for it are among the world's most cited tenth for their field, type and year.

POSITIONS

Lecturer 2020–present
Chemistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

Postdoctoral Fellow 2019–present
Chemistry, Kwame Nkrumah University of Science and Technology College of Science, Kumasi, Ghana

EDUCATION AND QUALIFICATIONS

PhD Physical Chemistry 2013–2018
Chemistry, Kwame Nkrumah University of Science and Technology, Kumasi, Ghana

DISTINCTIONS, MEMBERSHIPS AND SERVICE

AMRSC 2014–present
Royal Society of Chemistry, London, United Kingdom

Academic Visitor 2016–2017
School of Chemistry, University of Manchester, Manchester, United Kingdom

Academic Visitor 2015–2016
Department of Chemistry, University of Zululand, KwaDlangezwa, South Africa

PUBLICATIONS

Journal articles 19

1. **Michael Baah Mensah** (2026). Pengaruh Arus Kas Operasional, Arus Kas Investasi, Dan Profitabilitas Terhadap Return Saham. *Yudishtira Journal: Indonesian Journal of Finance and Strategy Inside*. http://gapenas-publisher.org/yudishtira/index.php/home/article/view/184
2. Benjamin K. Kokloku, Johannes A.M. Awudza, **Michael B. Mensah**, Mizpah A.D. Rockson, Francis Kemausuor (2025). Characterization of Ghanaian clays as raw materials for the synthesis of ZSM-5 zeolite. *Scientific African*. https://doi.org/10.1016/j.sciaf.2025.e02570

3. D. A. Adu-Boadu, M. Paal, **M. B. Mensah**, I. Nkrumah, R. Y. Tamakloe, F. K. Ampong, R. K. Nkum, F. Boakye (2025). Synthesis and characterization of Cd1-xPbxSe (0≤x≤1) thin films deposited by chemical bath for photovoltaic application. *Chalcogenide Letters*. https://doi.org/10.15251/cl.2025.227.603
4. **Michael. B. Mensah**, Nathaniel O. Boadi, Johannes A. M. Awudza (2022). Growth Kinetics of Zinc Sulphide Nanocrystals Synthesized by Colloidal Thermolysis of Fatty Acid Carboxylates. *Journal of Chemistry*. https://doi.org/10.1155/2022/9384592
5. Selina Ama Saah, Nathaniel Owusu Boadi, Patrick Opare Sakyi, Godfred Darko, **Michael Baah Mensah** (2022). Risk of Exposure to Trace Elements through the Application of Facial Makeup Powders. *Journal of Chemistry*. https://doi.org/10.1155/2022/9229134
6. Patience Adei Kotei, Nathaniel Owusu Boadi, Selina Ama Saah, **Michael Baah Mensah** (2022). Synthesis of Nickel Sulfide Thin Films and Nanocrystals from the Nickel Ethyl Xanthate Complex. *Advances in Materials Science and Engineering*. https://doi.org/10.1155/2022/6587934
7. **Michael B. Mensah**, Henry Jumpah, Nathaniel O. Boadi, Johannes A.M. Awudza (2021). Assessment of quantities and composition of corn stover in Ghana and their conversion into bioethanol. *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00731
8. **Michael B. Mensah**, David J. Lewis, Nathaniel O. Boadi, Johannes A. M. Awudza (2021). Heavy metal pollution and the role of inorganic nanomaterials in environmental remediation. *Royal Society Open Science*. https://doi.org/10.1098/rsos.201485
9. Nathaniel Owusu Boadi, Mercy Badu, Nii Korley Kortei, Selina Ama Saah, Benjamin Annor, **Michael Baah Mensah**, Harry Okyere, Alphonse Fiebor (2021). Nutritional composition and antioxidant properties of three varieties of carrot (Daucus carota). *Scientific African*. https://doi.org/10.1016/j.sciaf.2021.e00801
10. Nathaniel Owusu Boadi, Selina Ama Saah, **Michael Baah Mensah**, Johannes A. M. Awudza (2020). Aerosol-Assisted Chemical Vapour Deposition of Lead Chalcogenide Thin Films from [Pb((SePiPr2)2N)(S2CNHexMe)]. *Advances in Materials Science and Engineering*. https://doi.org/10.1155/2020/8881921
11. **Michael B. Mensah**, Johannes A.M. Awudza, Neerish Revaprasadu, Paul O'Brien (2020). Synthesis of CdS and PbS nanoparticles by the thermal decomposition of ethyl xanthate complexes in castor oil using the heat-up technique. *Materials Science in Semiconductor Processing*. https://doi.org/10.1016/j.mssp.2020.105493
12. Z. I. Abubakari, **M. Mensah**, R. Buamah, R. C. Abaidoo (2019). Assessment of the electricity generation, desalination and wastewater treatment capacity of a plant microbial desalination cell (PMDC). *International Journal of Energy and Water Resources*. https://doi.org/10.1007/s42108-019-00030-y
13. **Michael Baah Mensah**, NO Boadi, M Badu (2019). Characterization of latex from trees in the Bobiri forest of Ghana. *International Scientific Organization*. https://www.researchgate.net/profile/Nathaniel-Boadi/publication/334638922_Characterization_of_latex_from_trees_in_the_Bobiri_forest_of_Ghana/links/5d378ac6a6fdcc370a5a2d1b/Characterization-of-latex-from-trees-in-the-Bobiri-forest-of-Ghana.pdf
14. **M. B. Mensah**, J. A. M. Awudza, P. O'Brien (2018). Castor oil: a suitable green source of capping agent for nanoparticle syntheses and facile surface functionalization. *Royal Society Open Science*. https://doi.org/10.1098/rsos.180824
15. **Michael B. Mensah**, Paul D. McNaughter, Simon G. McAdams, Floriana Tuna, David J. Lewis, Johannes A. M. Awudza, Neerish Revaprasadu, Paul O'Brien (2018). Ricinoleic Acid as a Green Alternative to Oleic Acid in the Synthesis of Doped Nanocrystals. *ChemistrySelect*. https://doi.org/10.1002/slct.201803253
16. **MB Mensah**, NO Boadi, DD Wemegah, M Badu (2016). Physicochemical Properties and Levels of Heavy Metals in Selected Rivers within the Kumasi Metropolis of Ghana. *International Journal of Science and Technology*.
17. M. A. Laryea, B. O. Emikpe, V. Attoh-Kotoku, O. O. Omotosho, D. A. Asare, N. T. Asenso, R. Yeboah, O. A. Adejumobi, **M. Mensah**, D. B. Okai (2016). THE OCCURRENCE OF GASTRIC LESIONS IN SLAUGHTERED PIGS AT THE KUMASI ABATTOIR, GHANA. *Bangladesh Journal of Veterinary Medicine*. https://doi.org/10.3329/bjvm.v14i1.28830
18. Owusu Boadi Nathaniel, Ama Saah Selina, Kenneth Mensah John, Badu Mercy, Addai Arhinand Sylvester,

Baah Mensah Michael (2015). Phytoconstituents, antimicrobial and antioxidant properties of the leaves of Persea americana Mill cultivated in Ghana. *Journal of Medicinal Plants Research*. https://doi.org/10.5897/jmpr2015.5902

19. Clement Kubreziga Kubuga, **Michael Baah Mensah**, Gilbert Osei, Solomon Ofori Osei, Dominic Abugre (2013). NUTRITIONAL AND PSYCHOLOGICAL IMPACT OF DIABETES ON DIABETICS: CASE STUDY IN THE TAMALE TEACHING HOSPITAL - GHANA.

Book chapters 1

1. **Michael Baah Mensah**, Michael Boadu, Ebenezer Owusu Afriyie, Elizabeth Adu, Nathaniel Owusu Boadi, Johannes A.M. Awudza, David J. Lewis (2024). Hybrid metal sulfide nanomaterials for the removal of heavy metal water contaminants. *Elsevier eBooks*. https://doi.org/10.1016/b978-0-443-13464-7.00011-6

Theses 1

1. **MB MENSAH** (2018). GREEN APPROACH TO METAL CHALCOGENIDE SEMICONDUCTOR NANOMATERIALS: SYNTHESES AND CHARACTERIZATION OF CdS. *DEPARTMENT OF CHEMISTRY, KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY, KUMASI*. https://scholar.google.com/scholar?cluster=4335104638294937020&hl=en&oi=scholarr