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RESEARCH

Interests	zeolites and activated charcoal · nanolithography · plasmonics
Areas	Water Science and Technology · Biomedical Engineering · Civil and Structural Engineering · Environmental Engineering · Mechanical Engineering · Waste Management and Disposal

RESEARCH SUMMARY

29	206	8	6	0.60	5%
Publications	Citations	h-index	i10-index	Field-weighted impact	World top 10%

Counted from the 29 publications listed below, 1999–2023. Field-weighted impact is the mean over the 20 works scored for it; 1.00 is the world average for works of the same field, type and year. 1 of the 20 papers scored for it are among the world's most cited tenth for their field, type and year.

PUBLICATIONS

Journal articles 26

1. E.K. Amewode, **B. Sefa-Ntiri**, A. Owusu, M. K. Vowotor, S. S. Sackey, F. Kumi, C. L. Y Amuah (2023). Investigation of Amended Sandy Soil's Water Retention Characteristics. *African Journal Of Applied Research*. https://doi.org/10.26437/ajar.v9i2.563
2. Andrew A. Huzortey, Andreas A. Kudom, Ben A. Mensah, **Baah Sefa-Ntiri**, Benjamin Anderson, Angela Akyea (2022). Water quality assessment in mosquito breeding habitats based on dissolved organic matter and chlorophyll measurements by laser-induced fluorescence spectroscopy. *PLoS ONE*. https://doi.org/10.1371/journal.pone.0252248
3. Michael Akrofi Anang, Ruphino Zugle, **B Sefa-Ntiri** (2021). Photodegradation Efficiencies of MIL-53 (Al) of Dyes. *Journal of Materials Science Research and Reviews*. https://www.researchgate.net/profile/Michael-Anang/publication/358118289_Photodegradation_Efficiencies_of_MIL-53Al_of_Dyes/links/61f0ff325779d35951d48930/Photodegradation-Efficiencies-of-MIL-53Al-of-Dyes.pdf
4. Bright Kwakye-Awuah, Eric Kwabena Kyeh Abavare, **Baah Sefa-Ntiri**, Isaac Nkrumah, Elizabeth Von-Kiti, Craig Williams (2021). Synthesis and characterization of geopolymer-zeolites from Ghanaian Kaolin samples by variation of two synthesis parameters. *Journal of Thermal Analysis and Calorimetry*. https://doi.org/10.1007/s10973-021-10710-9
5. Linus Kweku Labik, Bright Kwakye-Awuah, Eric Kwabena Kyeh Abavare, **Baah Sefa-Ntiri**, Isaac Nkrumah, Craig Williams (2020). Adsorption Characteristics of Zeolite A Synthesized from Wassa Kaolin for Thermal Energy Storage. *Journal of Materials Science Research*. https://doi.org/10.5539/jmsr.v9n3p21
6. Michael Akrofi Anang, Ruphino Zugle, **Baah Sefa-Ntiri** (2020). Assessing the Adsorptive and Photodegradative Efficiencies of ZSM-11 Synthesized from Rice Husk Ash. *Journal of Chemistry*. https://doi.org/10.1155/2020/6094126
7. Michael Kwame Vowotor, George Amoako, **Baah Sefa-Ntiri**, Samuel Amoah, Samuel Sonko Sackey, Charles Lloyd Yeboah Amuah (2020). Assessment of Nine Micronutrients in Jasmine 85 Rice Grown in Ghana Using Neutron Activation Analysis. *Environment and Pollution*. https://doi.org/10.5539/ep.v9n2p29
8. Michael Akrofi Anang, Ruphino Zugle, **Baah Sefa- Ntiri** (2020). Comparing the Efficiencies of the Removal of Cadmium from Industrial Wastewater Using Zeolites. *International Research Journal of Pure and Applied*

Chemistry. https://doi.org/10.9734/irjpac/2020/v21i530166

9. **B. Sefa-Ntiri**, B. Kwakye-Awuah, R. Edziah, B. Anderson, F. A. Armah, P. Mensah-Amoah, S. S. Sackey, F. Sam, A. G. Akyea, S. Yunus, E. Tatchie, B. K. Nkansah, F. Kumi (2020). Dissolved organic matter in hand-dug well water as groundwater quality indicator: assessment using laser-induced fluorescence spectroscopy and multivariate statistical techniques. *SN Applied Sciences*. https://doi.org/10.1007/s42452-020-2446-4
10. Linus Kweku Labik, Bright Kwakye-Awuah, **Baah Sefa-Ntiri**, Eric Kwabena Kyeh Abavare, Isaac Nkrumah, Craig Williams (2020). Electricity Generation Using a Hybridized Zeolite Adsorption Heat Pump and Heat Engine. *Applied Physics Research*. https://doi.org/10.5539/apr.v12n4p75
11. MK Vowotor, SS Sackey, G Amoako, **B Sefa-Ntiri**, CLY Amuah, KK Mireku (2020). Epithermal Instrumental Neutron Activation Analysis Technique in Determining Bromine, Chlorine, and Iodine in Sarotherodon Melanotheron from the Benya Lagoon, Ghana. *International Journal of Science and Engineering Investigations*. https://ir.ucc.edu.gh/server/api/core/bitstreams/f2fc889d-3b53-48ec-b59e-10db1248d6bd/content
12. Michael Akrofi Anang, Daniel Dodoo, **Baah-Sefa Ntiri**, Ruphino Zugle, Gertrude Ellen Fynn (2020). Improving the Quality of Locally Produced Vegetable Oils in Ghana Using Zeolite ZSM-11. *Chemical Science International Journal*. https://doi.org/10.9734/csji/2019/v28i430150
13. Bright Kwakye-Awuah, **Baah Sefa-Ntiri**, Elizabeth Von-Kiti, Isaac Nkrumah, Craig Williams (2019). Adsorptive Removal of Iron and Manganese from Groundwater Samples in Ghana by Zeolite Y Synthesized from Bauxite and Kaolin. *Water*. https://doi.org/10.3390/w11091912
14. SS Sackey, P Mensah-Amoah, G Amoako, Michael Kwame Vowotor, **B Sefa-Ntiri** (2019). Photo-Degradation of Microbes in Hand-Dug Well-Water Using Different Radiation Sources. *International Journal of Science and Engineering Investigations (IJSEI)*. https://ir.ucc.edu.gh/server/api/core/bitstreams/10ce3736-bbe7-47a1-8b50-bfa55fb2a873/content
15. Shemmira Yunus, **Baah Sefa-Ntiri**, Benjamin Anderson, Francis Kumi, Patrick Mensah-Amoah, Samuel Sonko Sackey (2019). Quantitative Pore Characterization of Polyurethane Foam with Cost-Effective Imaging Tools and Image Analysis: A Proof-Of-Principle Study. *Polymers*. https://doi.org/10.3390/polym11111879
16. Frederick Sam, George Amoako, **Baah Sefa-Ntiri**, Anthony Twum, P. Mensah-Amoah, John Tellam (2018). Characterization of Potential Direct Recharge in the Gold Mining District of South-Western Ghana Using the Hydrus-1D Computer Code. *Journal of Geography and Geology*. https://doi.org/10.5539/jgg.v10n3p1
17. Bright Kwakye-Awuah, Ralph Kwakye, **Baah Sefa-Ntiri**, Isaac Nkrumah, Elizabeth Von-Kiti, Craig Williams (2018). Comparison of the Recycling Efficiency of Metakaolin and Laboratory-Synthesized Zeolite Types LTA and LSX on Used Lubricant Engine Oil. *Applied Physics Research*. https://doi.org/10.5539/apr.v10n4p11
18. B Kwakye-Awuah, I Nkrumah, **Baah Sefa-Ntiri** (2018). Synthesis of zeolites from bauxite and kaolin: effect of synthesis parameters on competing phases. *London United Kingdom*. https://www.researchgate.net/profile/Bright-Kwakye-Awuah/publication/324835126_Synthesis_of_Zeolites_from_Bauxite_and_Kaolin_Effect_of_Synthesis_Parameters_on_Competing_Phases/links/5e9adf1ba6fdcca78921330d/Synthesis-of-Zeolites-from-Bauxite-and-Kaolin-Effect-of-Synthesis-Parameters-on-Competing-Phases.pdf
19. Oko, Ernest Agyemang -, Sosu, Edem, **Ntiri, Baah Sefa -** (2017). Comparative study of mean Glandular dose between two Mammography Systems with Similar Target - Filter Combination. *Zenodo (CERN European Organization for Nuclear Research)*. https://doi.org/10.5281/zenodo.21596658
20. Samuel Sonko Sackey, **Baah Sefa-Ntiri**, Patrick Mensah-Amoah, Jonathan Ntow, Michael Kwame Vowotor, Andrew Huzortey, Angela Akyea (2017). Microbial Purification in Well-Water Using UV-Vis LEDs and Monitoring Using Laser-Induced Fluorescence. *Applied Physics Research*. https://doi.org/10.5539/apr.v9n6p36
21. Samuel S. Sackey, Michael K. Vowotor, Afred Owusu, Patrick Mensah-Amoah, Ebenezer T. Tatchie, **Baah Sefa-Ntiri**, Christiana O. Hood, Sampson M. Atiemo (2015). Spectroscopic Study of UV Transparency of Some Materials. *Environment and Pollution*. https://doi.org/10.5539/ep.v4n4p1

22. **B. Sefa-Ntiri .** (2014). EFFECT OF ZEOLITE TYPES LTX AND LTA ON PHYSICOCHEMICAL PARAMETERS OF DRINKING WATER SAMPLES IN GHANA, ASSISTED BY LIGHT TRANSMISSION EXPERIMENT. *International Journal of Research in Engineering and Technology*. https://doi.org/10.15623/ijret.2014.0303126

23. **Baah Sefa-Ntiri**, Mensah Amoah, R. J. S. Okoto, Ebenezer T. Tatchie (2014). Measurement Of Optical Turbidity Of Drinking Water Samples,Using Nephelometric And Laser Light Techniques. *American journal of contemporary scientific research*.

24. Musah Rabiu, Samuel Y. Mensah, Sulemana S. Abukari, Matthew Amekpewu, **Baah Sefa-Ntiri**, Anthony Twum (2013). Generation and Propagation of Ultrasonic Waves in Piezoelectric Graphene Nanoribbon. *Open Journal of Acoustics*. https://doi.org/10.4236/oja.2013.33a007

25. **Baah Sefa-Ntiri** (2007). Embedded metal mask enhanced evanescent near field optical lithography. *Microelectronic engineering*. https://www.sciencedirect.com/science/article/pii/S0167931707000172

26. **B Sefa-Ntiri** (1999). Determination of the size distribution of sediments in a dilute despersion by a photo-sedimentation method. *Journal of the Ghana Science Association*. https://www.ajol.info/index.php/jgsa/article/view/17979

Conference papers 2

1. **Baah Sefa-Ntiri** (2005). The mechanistic detail of electromagnetic power transmission by metal embedded mask (MEM) for evanescent nearfield optical lithography (ENFOL). *Optics in the South East 2005*. https://research.birmingham.ac.uk/en/publications/the-mechanistic-detail-of-electromagnetic-power-transmission-by-m/

2. **Baah Sefa-Ntiri** (2004). Simulation Studies of Plasmon Enhanced Evanescent Near-Field Optical Lithography. *Nanotech 2005*. https://www.academia.edu/download/115570573/588.pdf

Theses 1

1. **Baah Sefa-Ntiri** (2008). Embedded metal mask evanescent near field optical lithography (EMM-ENFOL). *The University of Birmingham*. https://scholar.google.com/scholar?cluster=10771348038407511916&hl=en&oi=scholarr