

DR. ONYINYECHI VIVIAN UHUO: PUBLICATIONS

1. **Uhuo, O.**, Waryo, Y., Oranzie, M., Sanga, N., Leve, Z., January, J., Tshobeni, Z., Pokpas, K., Douman, S., and Iwuoha, E. (2024). Interferon gamma (IFN- γ)-sensitive TB aptasensor based on novel chitosan-indium nano-kesterite (χ CITS)-labeled DNA aptamer hairpin technology. *Bioelectrochemistry*. 158: 108693. <https://doi.org/10.1016/j.bioelechem.2024.108693>
2. Yussuf, S. T., Ramoroka, M. E., Mdluli, S. B., Nwambaekwe, K. C., Ekwere, P. I., **Uhuo, O. V.**, Ikpo, C. O., and Iwuoha, E. I. (2023). Novel heterojunction superstrate $\text{Cu}_2\text{ZnInS}_{4-x}$ (CZIS) thin film kesterite solar cell with vertical arrays of hexagonal ZnO nanorods window layer. *Journal of Alloys and Compounds*. 935: 168211. <https://doi.org/10.1016/j.jallcom.2022.168211>
3. Mabokela, T., Nwanya, A. C., Ndipingwi, M. M., Yussuf, S. T., Ekwere, P. I., **Uhuo, O. V.**, Ikpo C. I., Modibane, K. D., and Iwuoha, E. I. (2023). Nanostructured europium-doped layered lithium manganese oxide as a prospective cathode material for aqueous lithium-ion battery. *Electrochimica Acta*. 441, 141865. <https://doi.org/10.1016/j.electacta.2023.141865>
4. Ekwere, P. I., Ndipingwi, M., Ikpo, C. I., Nwambaekwe, K., **Uhuo, O. V.**, Yussuf, S., and Iwuoha, I. (2023). High Stability Asymmetric supercapacitor cell developed with novel microwave-synthesised graphene-stabilised ruthenium antimonide nanomaterial. *Journal of Energy Storage*. 63: 106853. <https://doi.org/10.1016/j.est.2023.106853>
5. **Uhuo, O. V.**; Waryo, T. T.; Douman, S. F.; Januarie, K. C.; Nwambaekwe, K. C.; Ndipingwi, M. M.; Ekwere, P.; Iwuoha, E. I. (2022). Bioanalytical Methods Encompassing Label-Free and Labeled Tuberculosis Aptasensors: A Review. *Analytical Chimica Acta*, 340326. <https://doi.org/10.1016/j.aca.2022.340326>
6. Oranzie, M.; Douman, S.F.; **Uhuo, O.V.**; Mokwebo, K. V.; Sanga, N.; Iwuoha, E. I. (2022). Chronocoulometric signalling of BNP using a novel quantum dot aptasensor. *Analyst*, 147: 4829-4837. <http://dx.doi.org/10.1039/D2AN01357F>
7. Ekwere, P., Ndipingwi, M., Ikpo, C., Januarie, K., Mokwebo, K., Oranzie, M., Nwambaekwe, K., Uhuo., U., and Iwuoha, E. (2023). in *Nanoscience Volume 9*, ed. N. Revaprasadu and M. D. Khan, Royal Society of Chemistry, 2023, 9:35-77. <https://doi.org/10.1039/9781839169427-00035>
8. Mokwebo, V.; Douman, S. F.; **Uhuo, O. V.**; Januarie, K. C.; Oranzie, M.; Iwuoha, E. I. (2022). Electroanalytical Sensors for Antiretroviral Drugs Determination in Pharmaceutical and Biological Samples: A Review. *Journal of Electroanalytical Chemistry*, 920, 116621. <https://doi.org/10.1016/j.jelechem.2022.116621>
9. Januarie, K. C.; **Uhuo, O. V.**; Iwuoha, E.; Feleni, U. (2022). Recent Advances in the Detection of Interferon-Gamma as a TB Biomarker. *Analytical and Bioanalytical Chemistry*, 414 (2), 907–921. <https://doi.org/10.1007/s00216-021-03702-z>

10. Mengwi, M.; Ikpo, C. O.; Nwanya, A. C.; Januarie, K. C.; Ramoroka, M. E.; **Uhuo, O. V.**; Nwambaekwe, K.; Yussuf, S. T.; Iwuoha, E. I. (2022). Engineering the Chemical Environment of Lithium Manganese Silicate by Mn Ion Substitution to Boost the Charge Storage Capacity for Application in High Efficiency Supercapattery. *Electrochimica Acta*, 414, 140180. <https://doi.org/10.1016/j.electacta.2022.140180>
11. Nwambaekwe, K. C.; John-Denk, V. S.; Douman, S. F.; Mathumba, P.; Yussuf, S. T.; **Uhuo, O. V.**; Ekwere, P. I.; Iwuoha, E. I. (2021). Crystal Engineering and Thin-Film Deposition Strategies towards Improving the Performance of Kesterite Photovoltaic Cell. *Journal of Materials Research and Technology*, 12, 1252–1287. <https://doi.org/10.1016/j.jmrt.2021.03.047>
12. Franke, C.; Ajayi, R. F.; **Uhuo, O.**; Januarie, K.; Iwuoha, E. (2020). Metallo dendrimer-Sensitised Cytochrome P450 3A4 Electrochemical Biosensor for TB Drugs. *Electroanalysis*, 32 (12), 3075–3085. <https://doi.org/10.1002/elan.202060384>
13. Okonjo, K. O.; Fodeke, A. A.; Atolaiye, O. B.; Olatunde, A. M.; Ajaelu, C. J.; Ajelabi, O.; Adediji, A. T.; Adebayo, A. M.; **Uhuo, O. V.**; Babalola, O. J. (2019). R and R2 Quaternary Structures of Carbonmonoxyhemoglobins: Differential Effect of Inositol Hexakisphosphate on Their Affinity for Ellman’s Reagent. *Biophysical Chemistry*, 247.1-12 <https://doi.org/10.1016/j.bpc.2019.02.002>
14. Olatunde A. M., **Uhuo O. V.**, Babalola J. O. (2018). Binding of tetracycline to Bovine hemoglobin: Kinetic study and effect of pH, concentration and contact time. Proceedings of the 41st International conference and workshop exhibition of Chemical Society of Nigeria, Ibadan, 615-620.