**CURRICULUM VITAE**

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PGD & Masters

**Areas of Research Interest**

1. Renewable Energy Systems 2. Geospatial Technology 3.Water Quality Modelling

4. Climate Change 5. Waste Management

**Selected Key Publications**

1. **Chukwuma, E. C.** Okonkwo, C. C. Ojediran, J. O., Anizoba, D. C. Ubah, J.I., Nwachukwu, C.P. (2021) A GIS based flood vulnerability modelling of Anambra State using anintegrated IVFRN-DEMATEL-ANP model integrated IVFRN-DEMATEL-ANP model. Heliyon 7, e08048
2. **Chukwuma, E. C**. Ojediran, J Anizoba, D. A Ubah, J. A Nwachukwu, P (2021) [Geo-Spatially Based Analysis And Economic Feasiblity Evaluation Of Waste-To-Energy Facilities: A Case Study Of Local Government Areas Of Anambra State Of Nigeria](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=2FjM8QoAAAAJ&cstart=20&pagesize=80&citation_for_view=2FjM8QoAAAAJ:GnPB-g6toBAC). Springer, Biomass Conversion and Biorefinery, Springer. doi: 10.21203/rs.3.rs-234574/v1  **[Scopus-indexed]**
3. **Chukwuma, E. C**. Ojediran, J Anizoba, D. A Ubah, J. A Nwachukwu, P (2021) [Geo-Spatially Based Analysis And Economic Feasiblity Evaluation Of Waste-To-Energy Facilities: A Case Study Of Local Government Areas Of Anambra State Of Nigeria](https://scholar.google.com/citations?view_op=view_citation&hl=en&user=2FjM8QoAAAAJ&cstart=20&pagesize=80&citation_for_view=2FjM8QoAAAAJ:GnPB-g6toBAC). Springer, Biomass Conversion and Biorefinery, Springer. doi: 10.21203/rs.3.rs-234574/v1  **[Scopus-indexed]**
4. **Chukwuma, E. C**., Okey-Onyesolu, F. C., Ani, K. A., Nwanna, E. C., (2021) GIS bio-waste assessment and suitability analysis for biogas power plant: A case study of Anambra state of Nigeria. Elsevier Journal of Renewable Energy 163;1182-1194. <https://doi.org/10.1016/j.renene.2020.09.046>. **[Scopus-indexed]**
5. Okey-Onyesolu,C. F., **Chukwuma, E. C.,** Okoye, C. C., Onukwuli, O. D. (2020) RSM optimization of chito-protein synthesized from crab shell in treatment of abattoir wastewater. https://doi.org/10.1016/j.heliyon.2020.e05186 Heliyon 6 e05186. **[Scopus-indexed]**
6. **E. C. Chukwuma**, Abdul Rashid, G. Okafor, A.O. Nwoke (2020) Fuzzy based risk assessment of abattoir operations and treatment facilities: A case study of Onitsha North/South LGA of Anambra State of Nigeria. Elsevier Journal of Food and Bio-products Processing 119;88–97. <https://doi.org/10.1016/j.fbp.2019.10.012> **[Scopus-indexed]**
7. K. A. Ani and **E. C. Chukwuma** (2020)Kinetics and statistical analysis of the bio-stimulating effects of goat litter in crude oil biodegradation process. Springer Open Beni-Suef University Journal of Basic and Applied Sciences, 929, 1-13. <https://doi.org/10.1186/s43088-020-00055-x>

**[Scopus-indexed]**

1. **E. C. Chukwuma** (2019)Facility Location Allocation Modelling for Bio-Energy System in Anambra State of Nigeria: Integration of GIS and Location Model. Elsevier Journal of Renewable Energy. 141 460-467. <https://doi.org/10.1016/j.renene.2019.04.022> **[Scopus-indexed]**
2. **E. C. Chukwuma,** C. O. Orakwe, B. O. Ugwuishiwu, O. A. Nwoke, E. C. Igbokwe (2018) GIS hotspot application and use of set-cover problem for centralized abattoir biogas plant treatment facilities in Anambra State of Nigeria. Agric. Eng. International. CIGR Journal Open access at <http://www.cigrjournal.org>. 20 (4) 63-68. **[Scopus-indexed]**
3. L. C. Orakwe and **E. C. Chukwuma** (2017) Multivariate analysis of ground water characteristics of Ajali sandstone formation: A case study of Udi and Nsukka LGAs of Enugu State of Nigeria. Elsevier Journal of African Earth Sciences 129,668-674. **[Scopus-indexed]**