

## PUBLICATIONS

### CITATIONS AND H-INDEX

I have one patent and I have published 137 peer-reviewed scientific papers, 14 conference papers and 3 technical reports.

Eighty eight (88) of the peer-reviewed publications are listed on **SCOPUS** and have been cited 3227 times in 2494 different articles. My *h*-index on SCOPUS is **34**.

[https://www.scopus.com/cto2/main.uri?origin=resultlist&stateKey=CTOF\\_1118585975](https://www.scopus.com/cto2/main.uri?origin=resultlist&stateKey=CTOF_1118585975)

One hundred and ten (110) of my peer-reviewed articles are listed on **the Google scholar** and have been cited 5931 times in 3455 different articles with i10 index of **78** and H-index of **40**

<https://scholar.google.com/citations?user=Z1fMR5QAAAAJ&hl=en>

### PATENT

1. Unuabonah, Emmanuel Iyayi, Olu-Owolabi, Bamidele Iromidayo and **Adebowale, Kayode Oyebo** (2014). Preparation of novel low cost kaolinite Clay Agro waste composite adsorbent. *Federal Republic of Nigeria Patent and Designs Act Cap 344 Laws of the Federal Republic of Nigeria 1990: Patent No: NG/P/2013/616 (Date of Patent: 07-10-2013; Date of Sealing: 25-02-2014)*

### ARTICLES IN LEARNED JOURNALS ALREADY PUBLISHED

2. Paul N. Diagboya, Bamidele I. Olu-Owolabi, Fanyana M. Mtunzia and **Kayode O. Adebowale** (2020) Clay-carbonaceous material composites: Towards a new class of functional adsorbents for water treatment *Surfaces and Interfaces* <https://doi.org/10.1016/j.surfin.2020.100506> Received 17 September 2019; Received in revised form 20 February 2020; Accepted 6 March 2020
3. Edebi N Vaikosen, Bamidele I Olu-Owolabi Lorraine T. Gibson, Christine N Davidson, **Kayode O Adebowale**, Uche Asogua (2019) Kinetic field dissipation and fate of endosulfan after application on *Theobroma cacao* farm in tropical Southwestern Nigeria. *Environ Monit Assess* **191**: 196-214.
4. Edebi N Vaikosen, Lorraine T Gibson , Christine M Davidson , Bamidele I Olu-Owolabi , **Kayode Adebowale** , Benjamin U Ebeshi and Paul NE Diagboya (2019) GC-MS fragmentation patterns of sprayed endosulfan and its sulphate metabolite

in samples of *Theobroma cacao* L from a field kinetic study. *European Journal of Mass Spectrometry* **25**: 362-371

5. Bamidele I. Olu-Owolabi , Paul N. Diagboya, Emmanuel I. Unuabonah, Alimoh H. Alabi, Rolf-Alexander Düring, **Kayode O. Adebowale** (2018) Fractal-like concepts for evaluation of toxic metals adsorption efficiency of feldspar-biomass composites *Journal of Cleaner Production* **171**: 884-891.
6. Paul N. Diagboya, Bamidele I. Olu-Owolabi, Ezekiel D. Dikio, **Kayode O. Adebowale** (2018) Concentration-dependent and simultaneous sorption and desorption of pyrene and fluorene on major soil minerals in sub-Saharan Africa *Applied Clay Science* **153**: 257-264
7. Emmanuel I. Unuabonah, Adedoyin O. Adedapo, Cynthia O. Nnamdi, Adewale Adewuyi, Martins O. Omorogie, **Kayode O. Adebowale**, Bamidele I. Olu-Owolabi, Augustine E. Ofomaja, Andreas Taubert (2015) Successful scale-up performance of a novel papaya-clay combo adsorbent: up-flow adsorption of a basic dye. *Desalination and Water Treatment* **56**: 536-551
8. Emmanuel C. Chigbundu . **Kayode O. Adebowale** (2017) Equilibrium and fractal-like kinetic studies of the sorption of acid and basic dyes onto watermelon shell (*Citrullus vulgaris*) *Cellulose* **24**:4701–4714
9. O. S. Lawal, O. S. Ayanda, O. O. Rabiun and **K. O. Adebowale** (2017) Application of black walnut (*Juglans nigra*) husk for the removal of lead (II) ion from aqueous solution *Water Science and Technology* **75 (10)**: 2454-2464
10. Chukwunonso P. Okoli, Paul N. Diagboya, Ikenna O. Anigbogu, Bamidele I. Olu-Owolabi. **Kayode O. Adebowale** (2017) Competitive biosorption of Pb(II) and Cd(II) ions from aqueous solutions using chemically modified moss biomass (*Barbula lambarenensis*) *Environmental Earth Science* **77 (33)**: 1-10
11. Paul N. Diagboya, Bamidele I. Olu-Owolabi , **Kayode O. Adebowale** (2017) Distribution and interactions of pentachlorophenol in soils: The roles of soil iron oxides and organic matter *Journal of Contaminant Hydrology* (**191**) 99–106
12. Bamidele I. Olu-Owolabi, Paul N. Diagboya, Chukwunonso P. Okoli and **Kayode O. Adebowale** (2016) Sorption behaviour of pentachlorophenol in sub-Saharan tropical soils: soil types sorption dynamics. *Environ Earth Sci* **75**:1494-1504. DOI 10.1007/s12665-016-6307-9

13. Emmanuel I Unuabonah, Bamidele I Olu-Owolabi and **Kayode O Adebowale** (2016) Competitive adsorption of metal ions onto goethite–humic 3 acid-modified kaolinite clay. *Int. J. Environ. Sci. Technol.* 13:1043–1054 DOI 10.1007/s13762-016-0938-y
14. Kovo, G Akpomie, Dawodu, Folasegun A and **Kayode O Adebowale** (2015) Mechanism of sorption of heavy metals solution by a low cost montmorillonite and its desorption potential. *Alexandria Engineering Journal* **54**: 757-767
15. Paul N. Diagboya & Bamidele I. Olu-Owolabi & **Kayode O. Adebowale** (2015) Effects of time, soil organic matter, and iron oxides on the relative retention and redistribution of lead, cadmium, and copper on soils. *Environmental Science and Pollution Control* **22**:10331–10339
16. Bamidele, I. Olu-Owolabi; Paul N. Diagboya and **Adebowale, K. O.** (2015) Sorption and desorption of fluorine on five tropical soils from different climates. *Geoderma* **239-240**: 179-185
17. Nwosu, F. O., Olu-Owolabi, B. I. and **Adebowale, K. O.** (2015) Preparation and Characterisation of Active Carbons from Some Nutshells Using Carbon-dioxide Activation *Nigerian Journal of Scientific Research* **14 (2)**, 112 -117
18. **Adebowale, K. O.**, Olu-Owolabi, B. I. and Chigbundu, E. C. 2014. Removal of Safarin-O from aqueous solution by adsorption onto kaolinite clay. *Journal of Encapsulation and Adsorption Sciences.* **4(3)**:89-104
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20. Yahaya, L. E., **Adebowale, K. O.** and Olu-Owolabi, B. I. (2014) Cure characteristics and rheological properties of modified kaolin-natural rubber composites. *American Chemical Science Journal* **4 (4)**, 472-480
21. Adeyemo, A. O., **Adebowale, K. O.** and Olu-Owolabi, B. I. (2014) Adsorption of copper by biochar. *International Research Journal of Pure and Applied Chemistry* **4 (6)**, 727-736
22. Bamidele I. Olu-Owolabi, Paul N. Diagboya, and **Adebowale, Kayode O.** (2014) Evaluation of pyrene sorption-desorption on tropical soils. *Journal of Environmental Management* **137**: 1-9

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25. Olu-Owolabi, B. I., Olaynka, O. O., Adegbemile, A. A, **Adebowale, K. O.** (2014) Comparison and functional properties of native and chemically modified starches from Acha (*Digitaria staph*) grains. *Food and Nutrition Sciences* **5**: 222-230
26. Unuabonah, E. I., Olu-Owolabi, B. I., Taubert, A., Omolehin, E. and **Adebowale, K. O.** (2013) SAPK- A Novel Composite Resin for Water Treatment with very high Zn<sup>2+</sup>, Cd<sup>2+</sup> and Pb<sup>2+</sup> Adsorption Capacity. *Industrial and Engineering Chemistry Research*. **52**: 578-585.
27. Olu-Owolabi, B. I., Agunbiade, F. O., Fagbayigbo, B. O., and **Adebowale, K. O.** (2013) Monitoring Copper Bioaccumulation in Cocoa from Copper-Based Pesticide-Treated Cocoa Farms Using Fuzzy Similarity Method. *Bioremediation Journal*, **17(3)**:1-17, 2013
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30. Afolabi, T. A., Olu-Owolabi, B. I., **Adebowale, K. O.**, Lawal, O. S., and Akintayo, C. O. (2012) Functional and tableting properties of acetylated and oxidised finger millet (*Eleusine coracana*) starch. *Starch/Starke* **64**: 326-337
31. Yahaya, L. E., **Adebowale, K. O.**, Menon, A. R. R., Olu-Owolabi, B. I. (2012) Natural Rubber Organoclay Nanocomposite from Tea (*Camellia sinensis*) seed oil derivative. *American Journal of Materials Science* **2(2)**: 1-5
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37. Unuabonah, E. I., El-Khaiary, M. I., Olu-Owolabi, B. I., **Adebowale, K. O.** (2012) Predicting the Dynamics and Performance of a Polymer-Clay based composite in a Fixed Bed System for the removal of Lead (II) ion. *Chemical Engineering Research and Design* **90**: 1105-1115
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