

CURRICULUM VITAE

NKIKO Mojisola Olubunmi (Nee Bamtefa)

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Status/ Position: Professor

EDUCATION

- + Ph.D (Physical/ Biophysical Chemistry) University of Ibadan. February 2003
- + M.Sc. (Physical Chemistry) University of Ibadan. January 1991
- + B.Sc. (Hons) (Chemistry) University of Ibadan. August 1988
- + GCE A' Level Queens' College, Lagos. June 1985
- + WASC O' Level Methodist Girls' High, Lagos. June 1983

SKILLS AND TECHNIQUES

- + Team player and excellent interpersonal relationship skills
- + Proficiency in IT skills
- + Competent in handling and use of the following instrument/equipment – UV/ Visible Spectrophotometer, AAS, optical microscopes, gasometer, FTIR, Potentiostat
- + Use of quantum chemical methods for prediction of corrosion inhibition efficiency in metal
- + Willing to learn and re-learn for improvement, development, and transfer of knowledge through teaching and mentorship.

+ SELECTED PUBLISHED ARTICLES

- i. M. O. Nkiko (2022) Evaluating the Deterioration of Galvanized Steel in an Acidic Medium using Pinus Oocarpa Seed Extract as Inhibitor Portugaliae Electrochimica Acta 40 (2022) 79-87
- ii. Ojo Sunday Isaac Fayomi, **Mojisola Olubunmi Nkiko**, Khadijah Tolulope Dauda, Kunle Michael Oluwasegun (2021): Effect of ZrB₂ Functionalized Nanoparticles Growth on Microstructural and Corrosion Resistance on Mild Steel through Electrodeposition Route. *Key Engineering Materials*. **900, 74-81**
- iii. Ojo Sunday Isaac Fayomi, , Sode Adedamola Ayodeji, Benedict Uche Anyanwu, **Mojisola Olubunmi Nkiko**, Khadijah Tolulope Dauda (2021): Effect of Electrodeposition Mechanism and α -Si₃N₄/ZrBr₂ Doped Composite Particle on the Physicochemical and Structural Properties of Processed NiPZn Coatings on Mild Steel for Advance Application. *Key Engineering Materials*. **900, 61-73**
- iv. **O.S.I. Fayomi, A. A. Sode, B.U. Anyanwu, A. A. Ayoola, **M.O. Nkiko**, K. M. Oluwasegun, D. O. Alkhuele, D.O. Ighrawwe (2021): Experimental studies and influence of process factor on zinc-nickel based coating on mild steel. *Advances in Materials and Processing Technologies*. **doi.org/10.1080/2374068X.2021.1896863**

- v. Ojo Sunday Isaac Fayomi, Sode Adedamola Ayodeji, Oluranti Agboola, Kunle Micheal Oluwasegun, **Mojisola O. Nkiko (2021)** Experimental Investigation And Time Effect On The Anti-Corrosion And Microstructural Properties Of Zinc Flake Nickel-Phosphorus Coating Electrodeposited On Mild Steel. *ACS Omega*, **6**, **11139 -11143**
- vi. D.S. Adelekan. O. S. Ohunakin, M. H. Oladeinde. Gill Jatinder, O. E. Atiba, **M. O. Nkiko**, A. A. Atayero (2021): Performance of a domestic refrigerator in varying ambient temperatures, concentrations of TiO₂ nanolubricants and R600a refrigerant charges. *Heliyon* **7 (2)** **e06156**
- vii. **Nkiko, Mojisola. O***, Oluwabi, Abayomi. T., Ahmed Sikiru, A., Bamgbose, Janet. T. (2018): Inhibitive and Adsorption Properties of Sodium Dodecyl Sulphate on the Corrosion of Copper: Experimental and Quantum Chemical Studies. *Engineering*. **10 (12)** **851- 862**
14(9) 74 – 82
- viii. **Mojisola. O. Nkiko**, Esther. S, Oguntoyinbo, Janet. T. Bamgbose, Akeem. A. Bamigbade (2014). Protection of Zinc Alloy in H₃PO₄ using Extract of Lantana Camara, *Life Science Journal* **11(11)** **899 - 904**
- ix. **Mojisola. O Nkiko*** and Janet. T. Bamgbose (2011): Corrosion Inhibitive Effect of Ocimum gratissium Extract on Zinc - Aluminium Alloy in Hydrochloric Acid. *Portugaliae Electrochimica Acta* **29(6)**, **419 – 427**
- x. **M. O. Nkiko**, E. A Taiwo, A. Uruebor, A. Ogunyemi. (2006): Effect of Temperature on the Formation and Decomposition of Butan₂, 3- dione in Wort Brewed with Sorghum and Barley. *Chemical and Biochemical Engineering Quarterly* **20 (4)**, **46-51**
- xi. Taiwo, E. A. **Nkiko, M. O.** Adekoya, T. S. (2000): Evaluation of the Industrial Potential of Pentachletramyrophylla seed. *Integrated Journal of Science and Engineering*. **3: 16 – 22.**
- xii. **Mojisola. O. Nkiko (2019)**: Infusing Entrepreneurship into Science and Technology Education in Nigeria: Issues and Strategies. *Proceedings FBASCON 2019*, **121 – 127**

GRANTS AND AWARDS:

- i. American Biographical Institute, North Carolina Woman of The Year Award 2003 & 2004
- ii. People, State & Resources Woman of Merit Gold Award 2007
- iii. African Merits Gold Award for Integrity and Accountability, 2008
- iv. Royal society of Chemistry travel grant for catalysis workshop at the School of Chemistry, University of Witwatersrand, South Africa November 2011