

CURRICULUM VITAE

A. GENERAL INFORMATION

1. Name: ADETORO Rasheed Olaitan (Ph.D.)
2. Date and Place of Birth: 6th August 1970, Ikirun, Osun State
3. Gender: Male
4. Nationality: Nigeria
5. State of Origin: Osun
6. Local Government Area: Ifelodun
7. Marital Status: Married
8. Names and Ages of children: Rofiat (28 yrs), Rasheedat (25 yrs),
Roqeeb (23 yrs) and Ridwan (19 yrs)
9. Name and Relationship of Next of Kin with Telephone Number: Adetoro Rofiat Opeyemi (Daughter)
+2348164547549
10. Permanent Contact Address: No 3, Alafia Street, Ilupeju, Ikirun
11. E-mail Address: rasheed.adetoro@uniosun.edu.ng
12. Registration with Research Gates: Yes
13. If Yes, provide the Link: <https://www.researchgate.net/profile/Rasheed-Adetoro>
14. If No, Why: Not Applicable
15. Registration with Google Scholar: Yes
16. If Yes, provide the Link: scholar.google.com/citations?user=&user=n7WibisAAAAJ
17. If No, Why: Not Applicable
18. Registration with Orcid.org: Yes
19. If Yes, provide the Link: <https://orcid.org/0009-0003-2097-4048>
20. If No, Why: Not Applicable
21. Cell Phone Number: +2348034175769, +2348078517540
22. College/Faculty/Unit: Science, Engineering and Technology/Basic
& Applied Sciences
23. Department: Pure and Applied Chemistry
24. Position on First Appointment: Assistant Lecturer
25. Present Position and Salary: Senior Lecturer (CONUASS 5 Step 2)

B. EDUCATIONAL BACKGROUND

1. EDUCATIONAL INSTITUTIONS ATTENDED WITH DATES

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|---|-----------|
| i. Ladoke Akintola University of Technology, Ogbomoso | 2015-2021 |
| ii. University of Ilorin, Ilorin: | 2008-2013 |
| iii. University of Ado- Ekiti, (now EKSU) Ado-Ekiti: | 2005-2007 |
| iv. American Multimedia Inc. Yenagoa: | 1998-1998 |
| v. University of Ilorin, Ilorin: | 1991-1997 |
| vi. African Church Grammar School, Ikirun: | 1982-1987 |
| vii. C.A.C, Primary School, Ikirun | 1976-1982 |

2. EDUCATIONAL AND PROFESSIONAL QUALIFICATIONS WITH DATES

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|--|------|
| i. Ph.D. Pure and Applied Chemistry (Analytical/Environmental) | 2021 |
| ii. M.Sc. Chemistry (Analytical/Environmental) | 2013 |
| iii. Postgraduate Diploma in Education | 2007 |
| iv. Certificate in Computer Studies | 1998 |
| v. B.Sc. (Hons) Chemistry (2 nd Class Lower) | 1997 |
| vi. West African School Certificate | 1987 |
| vii. First School Leaving Certificate | 1982 |

3. HONOURS, AWARDS AND DISTINCTION

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|---|------|
| i. Award of outstanding performance by SCSN (UNIOSUN Chapter) | 2025 |
| ii. Award of exceptional leadership by CSN (Osun Chapter) | 2023 |

C. WORK EXPERIENCE OUTSIDE UNIVERSITY

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|---|-------------------------|
| i. Lecturer, Osun State College of Education, Ila-Orangun | (2005-2014) |
| ii. Part- Time Lecturer, Osun state Polytechnic, Iree | (2003-2005) |
| iii. Sales Executive, FINLAB Nigeria Ltd, Lagos | (April 2001-Sept. 2001) |
| iv. N.Y.S.C: Shell Petroleum Development Company P/H | (1997-1998) |

D. WORK EXPERIENCE IN OTHER UNIVERSITIES

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|---|-------------|
| i. Part- time Lecturer, UNIUYO, OSSCE, Ila- Orangun | (2010-2014) |
| ii. Part- time Lecturer, EKSU, OSSCE, Ila- Orangun | (2012-2014) |

E. WORK EXPERIENCE IN OSUN STATE UNIVERSITY

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|---|-----------------------|
| i. Assistant Lecturer (September 2014-September 2017) | Osun State University |
| ii. Lecturer 11 (September 2017-September 2022) | Osun State University |
| iii. Lecturer I (September 2022-September 2025) | Osun State University |
| iv. Senior Lecturer (September 2025-Till Date) | Osun State University |

F. CO-CURRICULAR PROFESSIONAL EXPERIENCE

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|-------|--|----------------|
| i. | Member, Global Moringa Production Consultants | 2012 till date |
| ii. | Supervisor, IJMB at ATBU Bauchi, Bauchi State | 2014 |
| iii. | Secretary, Department of Pure & Applied Chemistry, UNIOSUN | 2016-2019 |
| iv. | Quality Assurance Consultant, UNIOSUN WATER FACTORY | 2017 till date |
| v. | SIWES Coordinator, Department of Pure & Applied Chemistry | 2019-2023 |
| vi. | SIWES Coordinator, Faculty of Basic & Applied Sciences | 2022-2023 |
| vii. | Examination Officer, Department of Pure & Applied Chemistry | 2023-2026 |
| viii. | Member, College Pool Vehicle Maintenance Committee | 2024 till date |
| ix. | Postgraduate Coordinator, Department of Pure & Applied Chemistry | 2026 till date |

G. MEMBERSHIP OF PROFESSIONAL BODIES:

- i. Member, Chemical Society of Nigeria.
- ii. Member, Society for Environmental Toxicology and Pollution Mitigation
- iii. Member, American Chemical Society

H. SERVICES

1. University

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|------|--|----------------|
| i. | Postgraduate Coordinator, Department of Pure & Applied Chemistry | 2026 till date |
| ii | Member, College Pool Vehicle Maintenance Committee | 2024 till date |
| iii | Examination Officer, Department of Pure & Applied Chemistry | 2023 till date |
| iv | SIWES Coordinator, Faculty of Basic & Applied Sciences | 2022 - 2023 |
| v | SIWES Coordinator, Department of Pure and Applied Chemistry | 2019 - 2023 |
| vi | Quality Assurance Consultant, UNIOSUN WATER FACTORY | 2017 till date |
| vii | Member, Faculty Board of Examiners | 2017 till date |
| viii | Secretary, Department of Pure and Applied Chemistry | 2016 - 2019 |

2. Community

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|------|--|----------------|
| i. | Participant, FUADSI Resource Verification Exercise by the NUC | 2025 |
| ii. | Participant, EKSU OSSCE Ila Accreditation Exercise by the NUC | 2025 |
| iii. | Participant, UNILESA Resource Verification Exercise by the NUC | 2024 |
| iv. | Member, Global Moringa Production Consultants | 2012 till date |
| v. | President, Pacific Club of Ikirun | 1997-2001 |
| vi. | President, Federation of Ikirun Students' OSSCE Ila-Orangun | 1991 |

3. National

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|------|---|----------------|
| i. | Member, PTDF Central Selection Committee for Overseas Scholarship | 2025 till date |
| ii. | Secretary, National Quiz Competition Committee, CSN, Osun Chapter | 2019 – 2023 |
| iii. | Supervisor, IJMB at ATBU Bauchi, Bauchi State | 2014 |
| iv. | Supervisor, SPDC Scholarship Award Examination for Students | 1998 |

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|----|------------------------------|-----------|
| v. | National Youth Service Corps | 1997-1998 |
|----|------------------------------|-----------|

4. International

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|------|--|----------------|
| i. | Member, Global Moringa Production Consultants | 2012 till date |
| ii. | Reviewer, International Journal of Food Properties, Faisalabad-Pakistan | 2018 till date |
| iii. | Reviewer, International Journal of Food Properties, USA | 2019 till date |
| iv. | Reviewer, Chemical and Environmental Sciences, UJBAS | 2026 till date |
| v. | Reviewer, International Journal of Food Properties, Taylor & Francis Group | 2026 till date |
| vi. | Reviewer, Water Practice and Technology | |

I. COURSES TAUGHT DURING THE CURRENT ACADEMIC SESSION

- i. CHM 101: General Chemistry I
- ii. CHM 102: General Chemistry II
- iii. CHM 207: Inorganic Chemistry
- iv. CHM 208: Physical Chemistry
- v. CHM 292: Experimental Organic Chemistry
- vi. CHM 391: Experimental Chemistry
- vii. ICH 307: Introductory Catalysis
- viii. CHM 403: Structure and Coordination Chemistry
- ix. CHM 415: Macromolecular Chemistry I
- x. CHM 420: Macromolecular Chemistry II
- xi. CHM 430: Organometallic Chemistry
- xii. CHM 461: Seminar
- xiii. CHM 462: Research Project
- xiv. SCI 702: ICT and Research Methodology
- xv. CHM 714: Design of Organic Reagents
- xvi. CHM 719: Advanced Analytical Techniques and General Research Methodology
- xvii. CHM 722: Laboratory Practical for Chemical Analysis
- xviii. CHM 733: Classical Methods of Analysis
- xix. CHM 738: Practicals/Field work

J. GRADUATE SUPERVISION

Masters of Science (1)

Completed

1. Lawal, Zaidat Olabisi (CHE/2017/0002). Source Apportionment and Toxicological Risk of Potentially Toxic Elements in River Osun Ecosystem within Ilesa Gold Belt. Analytical/Environmental Chemistry, 2024/2025 Session. Osun State University, Osogbo. M.Sc. Chemistry (Analytical/Environmental option).

2. Bakare, Taofeek Bayo (2024/63731). Co-MOF for Dye Removal: Mechanistic, Kinetic and Thermodynamic Studies. Environmental Chemistry, 2025/2026 Session. Osun State University, Osogbo. M.Sc. Chemistry (Environmental option).

Ongoing

1. Popoola, Victoria Ayomikun
2. Odewale, Oluwatunmishe Dorcas

PhD (1)

Ongoing

1. Lawal, Zaidat Olabisi

K. PUBLICATIONS:

1. THESIS/DISSERTATION

- a) Production, Characterization, and Application of Hydroxyapatite of Biogenic Origin for the Treatment of Steel Rolling Mill Wastewater (Ph.D. Thesis, 2021)
- b) Speciation and Characterization of Osun, Otin and Oni Rivers in Osun State Nigeria (M.Sc. Thesis, 2013)
- c) Effect of Admission Policy on Students' Performance in Chemistry (P.G.D.E Thesis, 2007)
- d) Detoxification of *Azadirachta indica* Seed cake by Alcoholysis (B.Sc. Thesis 1997)

2. BOOKS **NIL**

3. MONOGRAPHS **NIL**

4. CHAPTERS IN BOOKS **NIL**

5. PUBLISHED ARTICLES IN LEARNED JOURNALS

1. **Adetoro, R.O. (2009).** Detoxification of *Azadirachta indica* seed cake by alcoholysis and its inclusion in animal feed formulation as an alternative source of protein. International Research Review. A *Multidisciplinary Journal of Osun State University*.1(1), 119-125. **Published by Osun State University, College of Education, Ipetu-Ijesa Campus. Nigeria**
2. **Adetoro, R.O. (2010).** Comparison of mode of admission into college of education" International Research Review. A *Multidisciplinary Journal of Osun State University*, 1(2), 251-

25. **Published by Osun State University, College of Education, Ipetu-Ijesa Campus. Nigeria**

3. Oyeleke, G.O; Salam, M.A. and **Adetoro R.O. (2012)**. Nutritive potential of male and female edible frog (*Pelophylax Esculentus*) II: select trace element and functional properties. *IOSR- Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)*, 1(4), 29-31. **International Organization of Scientific Research (IOSR)**, India. **Impact factor– 3.462**
4. Oyeleke, G.O; Salam, M.A. and **Adetoro R.O. (2012)**. Some aspects of nutrient analysis of seed, pulp and oil of baobab (*Adansonia Digitata* L)’ *IOSR-Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)*, 1(4), 32-35. **International Organization of Scientific Research (IOSR)**, India.
5. Oyeleke, G.O; Afolabi, O; Olayiwola, O.A. and **Adetoro R.O. (2012)**. Oil quality characteristics and effects of temperature variations on some functional properties of horse eye (*Dioclea Reflexa*) seed flour. *IOSR-Journal of Environmental Science, Toxicology and Technology (IOSR-JESTFT)*, Food 2(2), 38-42. **International Organization of Scientific Research (IOSR)**, India.
6. Oyeleke, G.O; Afolabi, O; Olayiwola, O.A. and **Adetoro, R.O. (2013)**. Chemical examination of sandbox (*Hura crepitans*) seed: Amino acid and seed protein solubility. *IOSR-Journal Applied Chemistry (IOSR-JAC)*, 4(6), 56-58. **International Organization of Scientific Research (IOSR)**, India.
7. Oyeleke, G.O; Ojo, A; Ajao, F.D. and **Adetoro R.O. (2013)**. Development and analysis of blended pineapple – water melon ready to drink (RTD) Juice” *IOSR- Journal of Environmental Science, Toxicology and Food Technology (IOSR-JESTFT)*, 4(6), 22-24. **International Organization of Scientific Research (IOSR)**, India.
8. Oyeleke G.O., **Adetoro R.O.**, Ishola A.D. and Salaam M.A. **(2017)**. The study of solvent laundering on surface dye wash and structures of polyester fabrics. *Journal of Polymer, Biopolymer, Chemistry, Physics*, 5(1), 1-9. **Polymer International, USA**
9. Oyeleke G.O., **Adetoro R.O.**, Sulaiman W.K. and Adebisi A.A. **(2017)**. Amino acids and functional characteristics of (*Carica papaya*) seeds under normal storage ripening. *Advances in Research*, 10(2), 1-6. **ICI World of Journals, UK.**

10. Oyeleke, G.O., **Adetoro, R.O.**, Lawal, R.T. and Salam, M.A. (2017). Some aspects of nutrient, antinutrient, minerals and sugars contents of *Thaumatococcus danielli* (Benn.) seeds. *Advances in Research*, 10(4), 1-7. **ICI World of Journals, UK.**
11. Azeez, L., Adebisi, S.A; Oyediji, A.O; **Adetoro, R.O.** and Tijani, K.O (2019). Bioactive compounds' contents, drying kinetics and mathematical modelling of tomato slices influenced by drying temperatures and time''. *Journal of the Saudi Society of Agricultural Sciences*. 18, 120 – 126. **Published by Society of Agricultural Sciences, King Saud University (Elsevier). Saudi Arabia**
12. Azeez L., Adejumo A. L., Lateef A., Adebisi S. A., **Adetoro R. O.**, Adewuyi S. O., Tijani K. O. and Olaoye S. (2019). Zero-valent silver nanoparticles attenuate Cd and Pb toxicities on *Moringa oleifera* via immobilization and induction of phytochemicals. *Plant Physiology and Biochemistry*. 139, 283 – 292. **Published by Federation of European Societies of Plant Biology (FESPB) and the French Society of Plant Biology (Elsevier). Impact factor – 4.270. France**
13. Amuda O.S., **Adetoro R. O.**, Azeez L., Adebisi S. A. and Adejumo A. L. (2019). Temperature-dependent synthesis and characterization of hydroxyapatite (HAP) Sorbent from Periwinkle Shell. *Journal of Chemical Society of Nigeria*. 44(7), 1298 – 1303. **Published by Chemical Society of Nigeria. Abuja Nigeria**
14. Azeez Luqmon; Agbaje Lateef; Adejumo Ayoade L; Adeleke Joshua T.; **Adetoro R.O.** and Mustapha Zainab (2020). Adsorption behaviour of Rhodamine B on hen feather and corn starch functionalized with green synthesized silver nanoparticles (AgNPs) mediated with cocoa pods extracts. *A Journal of the Tunisian Chemical Society*, 3(1), 237-250. **Published by The Tunisian Chemical Society and Springer Nature, Switzerland AG. Tunisia**
15. Adejumo A. L., Azeez L., Oyediji A.O, **Adetoro R.O.**, Aderigbigbe F.A. (2020). Nanostructured and surface functionalized corncob as unique adsorbents for anionic dye remediation. *SN Applied Sciences*. 2, 301. <https://doi.org/10.1007/s42452-020-2109-5>. **Published by Springer Nature, Switzerland AG**
16. Azeez Luqmon; Adejumo Ayoade L., Asaolu Samuel S., Adeoye Moriam D. and **Adetoro R.O.** (2020). Functionalization of rice husks with Ortho-Phosphoric acid enhanced adsorptive capacity for anionic dye removal. *Chemistry Africa*, 3, 457–467. **Published by The Tunisian Chemical Society and Springer Nature Switzerland AG. Tunisia**

17. Luqmon Azeez, Agbaje Lateef, **Adetoro R.O.** and Adebayo E. Adeleke (2021). Responses of *Moringa oleifera* to alteration in soil properties induced by calcium nanoparticles (CaNPs) on mineral absorption, physiological indices and photosynthetic indicators. *Beni-Suef University Journal of Basic and Applied Sciences*, 10(39), 1-15. **Published by Springer Nature, Switzerland AG**
18. Ayinla, I. K., Baba, A. A., Uzundu, D. C., **Adetoro, R. O.**, Aremu, M. O., Adio, O., Tripathy, B. C, and Adebimpe, F. J. (2021). An Energy Saving Option for Production of pure α -Alumina for Industrial Applications Using Waste Aluminium Dross. *Ilorin Journal of Science*, 8(2), 103–112. <https://doi.org/10.54908/iljs.2021.08.02.003>
19. Luqmon Azeez, Segun A. Adebisi, **Adetoro R.O.**, Abdulrasaq O. Oyedeji, Wasiu B. Agbaje and Olalekan A. Olabode (2022). Foliar application of silver nanoparticles differentially intervenes remediation statuses and oxidative stress indicators in *Abelmoschus esculentus* planted on gold-mined soil. *International Journal of Phytoremediation*, DOI:10.1080/15226514.2021.1949578. **Published by Taylor & Francis, United Kingdom.**
Impact Factor – 3.212
20. Adejumo, A.L., Azeez, L., Ajayi, E., Atere, T.G., Aderibigbe, F.A., and **Adetoro R.O. (2022).** Characterisation of Acid Soluble Collagen from Catfish (*Clarias gariepinus*) Skin, Its Amino Acid Composition and Its Thermal Stability. *West Indian Journal of Engineering*, 44(2), 14-19. <https://doi.org/10.47412/OYMI4758>. **Published by Faculty of Engineering, University of the West Indies.**
21. Luqmon Azeez, **Adetoro R.O.**, Hassan K. Busari, Harun K. Aremu, Joshua T. Adeleke, Saheed Adewinbi, Olalekan A. Olabode & Isiaq Ayandayo (2022). AgNPs-TiO₂NPs doped calcined hydroxyapatite for effective removal of ibuprofen and Acetaminophen. *International Journal of Environmental Analytical Chemistry*, DOI:10.1080/03067319.2022.2106434. **Published by Taylor & Francis, United Kingdom.**
22. Luqmon Azeez, Adebayo E. Adeleke, Saheed A. Popoola, Hassan K. Busari, Wasiu B. Agbaje, Samuel S. Ojewuyi, Israel I. Oluwafemi, Ruqoyyah D. Oladeji and **Adetoro R.O. (2023).** Dye degradation and molecular docking mechanism of *Terminalia catappa* mediated mesoporous titanium dioxide nanoparticles. *Inorganic Chemistry Communications*, 153, 110873. **Published by Elsevier, United Kingdom.**
23. Ogundipe S. Opeoluwa, Latinwo G. Kayode, Ayobami O. Ajani, Tinuade J. Afolabi, Idris O. Okeowo, **Adetoro R. O.** and Abass O. Alade (2023). Optimization and Isothermal Studies of

Antibiotics Mixture Biosorption from Wastewater Using Palm Kernel, *Chrysophyllum albidum*, and Coconut Shells Biocomposite. *Avicenna Journal of Environmental Health Engineering*, 10(1):44-56. DOI:10.34172/ajehe.2023.5316. **Published by Hamadan University of Medical Sciences.**

24. **Adetoro R.O.**, Shittu M. O. A.; Adetayo-Balogun A.A.; Okedinachi P. A. and Amuda O.S. (2024). Kinetic Studies of Periwinkle Shell Hydroxyapatite (PSHAP) for the Removal of Metal Ions in Steel Rolling Mill Wastewater. *Research Journal of Pure Science and Technology*, 7(2): 37-49. DOI: 10.56201/rjpst.v7.no2. 2024. **Published by International Institute of Academic Research and Development.**
25. Adejumo, A. L., Basiru, S.O., Adeleke, A. E., **Adetoro, R. O.**, Aremu, H. K., Owolabi, S. O. and Azeez, L. (2024b). Potential Consequences of Water-Soluble Acetaminophen-Chromium Combination in *Clarias Gariepinus*: Bioaccumulation and Oxidative Perturbations of Antioxidant Enzyme Activities. *Fountain Journal of Natural and Applied Sciences*, 13(1): 73 – 87. DOI: 10.53704/fujnas. v13i1.562. **Published by College of Natural and Applied Sciences, Fountain University, Osogbo, Nigeria.**
26. Adejumo, A.L., **Adetoro, R.O.**, Oladejo, A.A., Kolawole, T.O., Oyedeji, A.O., Adeleke, E.A., Oke, A.M. Awolola O.S., Isola O.E., Azeez, L. (2024c). Risk Evaluation associated with *Abelmoschus Esculentus* Consumption Grown on Decommissioned Goldmine Sediment and Water. *Fountain Journal of Natural and Applied Sciences*, 13(2): 12-22. DOI: 10.53704/fujnas. v13i2.566. **Published by College of Natural and Applied Sciences, Fountain University, Osogbo, Nigeria.**
27. Adeyi, V.A., Agarry, S.E., Popoola, A.O., Akinwunmi, O.D., Afolabi, T.J., Alagbe, S.O., Olugbodi, H.O., Akinjobi, T.A., Agboola T.T., Salaudeen, S., **Adetoro, R.O.**, Kehinde, T.O. and Alade, A.O. (2024). Characterization of Cellulose from Waste Baobab Pod for future utilisation in Wastewater Treatment. *Journal of the Nigerian Society of Chemical Engineers*, 39(3): 83-88. 10.51975/243903014.som. **Published by The Nigerian Society of Chemical Engineers, Ikeja, Nigeria.**
28. Azeez, L. **Adetoro, R.O.**, Agbaogun, B.K. Oyedeji, A.O. Busari, H.K. Oladejo, A.A. Oyelami, O.K. Osilaja D., Oladeji, R.D. Basiru, S. Muhammad-Lawal, S. Hamed, A. and Makanjuola, A.O. (2025). Variability in microplastic abundance, bisphenol A contamination, antioxidant properties, and health risks associated with vegetable consumption. *Beni-Suef University Journal of Basic and Applied Sciences*, 14(36), 1-14.

<https://doi.org/10.1186/s43088-025-00627-9>. **Published by Springer Nature, Switzerland AG**

29. **Adetoro, R.O.**, Abidoye, L. K., Abidoye, A. J. and Akindoye, B. A. **(2025b)**. Dielectric Spectroscopy Technique for the Detection of Black Seed Oil Adulterated with Sunflower and Palm Kernel Oil. *UNIOSUN Journal of Engineering and Environmental Sciences*, 7(1), 126-135. DOI: 10.36108/ujees/5202.70.0121. **Published by UNIOSUN, Nigeria**
30. **Adetoro, R.O.**, Mustapha L., Azeez L.A., Agbaogun B.K., Busari H.K., Oladejo A.A., Basiru S., Oladeji R.D., Oluwafemi I.I., Ojewuyi S.S., Opatokun-Saliu R.O. **(2025c)**. Titanium dioxide nanoparticles-functionalized hydroxyapatite removal of bisphenol A from aqueous media: isotherms, kinetics and thermodynamics. *Adeleke University Journal of Engineering and Technology*, 8(1), 084-094. **Published by Faculty of Engineering, Adeleke University Ede, Nigeria.**
31. Amuda, O.S., **Adetoro, R.O.**, Oyediran, O.F. and Ojo, D.T. **(2025)**. Artificial Neural Networks-Adaptive Neuro-Fuzzy Inference Systems Modelling of Heavy Metal Adsorption from Steel Mill Wastewater Using Periwinkle Shell Hydroxyapatite. *Journal of Environmental Science and Pollution Research. Research Square* (preprint version). <https://doi.org/10.21203/rs.3.rs-7031724/v1>. **Springer Nature.**
32. Oladejo, O.O., Azzez, L., Anifowose, A.J., **Adetoro, R.O.**, Busari, H.K., Ayinde, Y.T., Basiruc, S., Mohammed-Lawal, S., Azeez, D.I. and Makanjuola, A.O. **(2026)**. Microplastic-Metal Nexus in Soil and Freshwater Fish: Distribution, Bioavailability and Risk Assessment. *Fountain Journal of Natural and Applied Sciences*, 15(01), 01-14. **Published by College of Natural and Applied Sciences, Fountain University, Osogbo, Nigeria.**

6. REVIEW ARTICLES

NIL

7. REFEREED CONFERENCE PROCEEDINGS

NIL

33. **Adetoro, R.O.**, Azeez, L.A., Adejumo, A.L., Busari, H.K. and Rabi, O.K. **(2025)**. Adsorption of Rhodamine-B on Functionalized Hydroxyapatite-Chitosan-Titanium Dioxide Nanoparticles. American Chemical Society Africa Regional Conference on Sustainable Chemistry Book of Proceedings. (Available at: <http://acsnigeria.org/publications/proceedings>). **Onshore**

8. UNREFEREED CONFERENCE PROCEEDINGS

NIL

9. BOOK REVIEWS

NIL

10. TECHNICAL REPORTS

NIL

11. PATENTS AND INVENTIONS

NIL

L. CURRENT RESEARCH ACTIVITIES

1. Funded Research

Nil

2. Non-Funded/Self Sponsored Research

1. Seasonal Variation in Concentration of Heavy Metals in Osun River, Osun State Nigeria.
2. Synthesis of Hydroxyapatite from Biogenic waste for the Treatment of Industrial Wastewater.
3. Comparative Efficiency of Modified and Unmodified Hydroxyapatite for Adsorption of Rhodamine B Dye.
4. Comparative Temperature Dependent Kinetic Studies of Periwinkle Shell Hydroxyapatite (PSHAP) Adsorptive Removal of Metal Ions in Steel Rolling Mill Wastewater.
5. Comparative Temperature Dependent Isotherm Studies of Periwinkle Shell Hydroxyapatite (PSHAP) Adsorptive Removal of Metal Ions in Steel Rolling Mill Wastewater.
6. Comparative Temperature Dependent Thermodynamic Studies of Periwinkle Shell Hydroxyapatite (PSHAP) Adsorptive Removal of Metal Ions in Steel Rolling Mill Wastewater.
7. Adsorption of Rhodamine-B on Functionalized Hydroxyapatite-Chitosan-Titanium dioxide Nanoparticles.
8. Adsorption of Methyl Red on Functionalized Hydroxyapatite-Chitosan-Titanium dioxide Nanoparticles.

M. CONFERENCE ATTENDED AND PAPERS PRESENTED WITH DATES:

- i. World Bank Sponsored STEP B workshops and lecture of the Faculty of Science, University of Ilorin on 20th – 21st January, 2009.
- ii. International Guest Lecture and Workshop for Postgraduate Students and Teacher of Department of human kinetics and health Education, University of Ibadan, on 8th October, 2010.
- iii. 34th Annual International Conference, Workshop and Exhibition of the Chemical Society of Nigeria (Kwara 2011) on 19th – 23rd September, 2011.

- iv. Global Moringa Production Consultants Summit Brymor Hotel, Osogbo Osun State on 4th August, 2012. Nutritional and Medicinal Benefits of *Moringa Oleifera* Plant.
- v. Global Moringa Production Consultants Summit, NUT Hall, Opposite M.K.O Stadium, Kuto, Abeokuta, Ogun State, 1st September, 2012.
- vi. Global Moringa Production Consultants Summit, Helena, Hotel, Ijapo Akure Ondo State, on 8th of September, 2012.
- vii. Global Moringa Production Consultants Summit, Abal Hall, Akobo Area Ibadan Oyo State, on 22nd September, 2012.
- viii. Capacity Building Workshop on the Teaching of Chemistry / Physics for Lecturers in Tertiary Institution, National Mathematical center, Kwali- Abuja, on 12th -16th November, 2012.
- ix. Seasonal Variation in Concentration of Heavy Metals in Osun River, Osun State Nigeria. Capacity Building Workshop on the Teaching of Chemistry / Physics for Lecturers in Tertiary Institution, National Mathematical center, Kwali- Abuja, on 12th -16th November, 2013
- x. Society for Environmental Toxicology and Pollution Mitigation International Conference, Workshop on Business Opportunities in Waste Management, University of Lagos on 19th – 20th October, 2016.
- xi. A 2- Day Training Workshop on Promotion of Energy Planning Tools (MAED, MESSAGE & NECAL 2050) For Capacity Building in Energy Planning in Osun State, Senate Chambers, Osun State University, Osogbo, on 7th – 8th March, 2018.
- xii. 6th Nano Today Conference, Lisbon Portugal, 16th-20th June, 2019. Prospects, Preparations and Problems of Nanomaterials for Chemical and Catalytic Applications: A Review.
- xiii. Chemical Society of Nigeria 42nd Annual international Conference & 4th Acrice (Eko 2019), Academy Guests house and Events Halls, Plot 6, lateef Jakande Road by ACME Rd., Agidingbi, Ikeja Lagos on 8th-13th September, 2019.
- xiv. International Research Conference on Pharmaceutical and Allied Sciences (IRCPAS 2020), UCSI University, Kuala Lumpur, Malaysia, on 7th-8th March, 2020. Temperature-Dependent Production and Characterization of Hydroxyapatite (HAP) Sorbent from Periwinkle Shells.

- xv. International e-conference on Management of Covid-19, Ali Allana College of Pharmacy, Akkalkuwa, India, on 27th-29th June, 2020.
- xvi. Webinar organised by Chemical Society of Nigeria (CSN) on: Digging deep into Chemistry Culture: Chemical Security and Technology Expedition on 9th July, 2020.
- xvii. 6th Postgraduate Research Workshop on Effective Research Training in Postgraduate Studies, Ladoke Akintola University of Technology, Ogbomoso, Nigeria on 10th June, 2021.
- xviii. Webinar Jointly organized by Taylor & Francis Group and the Association of African Universities on Publishing Ethics: Excellence in peer review: How to be an Effective Peer Reviewer on 25th September, 2023.
- xix. Webinar Jointly organized by Taylor & Francis Group and the Association of African Universities on Publishing Ethics: Data Sharing and Collaboration: Enhancing Scientific Discoveries through Open Data on 5th October, 2023.
- xx. Webinar organised by Taylor & Francis Group on Science Communication and Public Engagement: The Power of Diverse Voices in Research on 10th October, 2023.
- xxi. Webinar organised by Atlantic International University on Kali Linux Tools: Network Traffic Analyzer on 17th October, 2023.
- xxii. Webinar organised by Atlantic International University on Mastering Resuscitation: The Life-Saving Potential CPR on 18th October, 2023.
- xxiii. Webinar organised by Atlantic International University on Portfolio Allocation and Long – Term Investment Decisions on 19th October, 2023.
- xxiv. Webinar organised by Atlantic International University on Freelancing for Beginners - Part Four on 20th October, 2023.
- xxv. Webinar organised by the Life Science Business of Merck KGaA, Darmstadt, Germany operates as MilliporeSigma in the U.S. and Canada on How to Become More Sustainable in the Lab - Approaches, Tips and Tricks_AM on 15th November, 2023.
- xxvi. One Day Capacity Building Workshop organized for all Teaching Staff of Osun State University, Olagunsoye Oyinola Auditorium, UNIOSUN Main Campus, Osogbo Nigeria on 20th November, 2023.
- xxvii. Webinar organised by Taylor and Francis Group on Navigating Open Access Publishing: Strategies for Minimizing Rejection on 2nd May, 2024.

- xxviii. American Chemical Society (ACS) Africa Regional Conference on Green and Sustainable Chemistry, Sheraton Hotel, Ikeja, Lagos Nigeria on 5th-9th May, 2024. Adsorption of Rhodamine-B on Functionalized Hydroxyapatite-Chitosan-Titanium Dioxide Nanoparticles.
- xxix. African Academic Heritage Fair (AAHF) 2026, held in commemoration of African Union Day under the AU Theme of the Year: Assuring Sustainable Water Availability and Safe Sanitation System to achieve the Goals of Agenda 2063, AAU Secretariat, Accra, Ghana (Hybrid) on 25th May, 2026.

N. EXTRA CURRICULAR ACTIVITIES

- i. Sponsorship of Football Club at grassroots

O. RELEVANT INFORMATION

I am proficiently computer literate

P. SUMMARY OF CONTRIBUTION TO KNOWLEDGE

My research areas in Analytical and Environmental Chemistry have contributed significantly to knowledge and have impacted positively on humanity. It involves analysis of water, wastewater, soil, food samples and vegetables for heavy metals, proximate, phytochemical and functional properties analysis. It also covers synthesis, characterization and application of biogenic wastes for the treatment of industrial wastewaters. It also involves the use of nanosized materials for remediation of water, wastewater and soil contaminants.

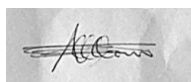
My first paper was on detoxification of *Azadirachta indica* seed cake, proximate analysis and its inclusion in animal feed formulation as an alternative source of protein. The articles (3-9) were on nutrients, minerals, proximate, phytochemicals and functional properties analysis of food, fruits and vegetables. Articles (12, 13, 14 and 15) were on synthesis of biogenic adsorbents for remediation, suggesting adsorption technique as best option. This research area has contributed commendably in reputable journals (Q1, Q2 and Q3) with high impact factors.

Owing to vast reactivities of nanostructured materials, their applications as appropriate adsorbents for dye and heavy metals remediation comprising synthesis and surface functionalization were described in articles 16, 19, 21, 23 and 24. It involved study of optimum conditions appropriate for the remediation of different pollutants. Article 25 involved Bioaccumulation and Oxidative Perturbations of Antioxidant Enzyme Activities. Article 26 revealed Risk Evaluation associated with *Abelmoschus Esculentus* Consumption Grown on Decommissioned Goldmine Sediment and

Water. Article 27 involved Characterization of Cellulose from Waste Baobab Pod for future utilization in Wastewater Treatment. Article 28 revealed Variability in microplastic abundance, bisphenol A contamination, antioxidant properties, and health risks associated with vegetable consumption. Article 29 involved Dielectric Spectroscopy Technique for the Detection of Black Seed Oil Adulterated with Sunflower and Palm Kernel Oil. Article 30 confirmed Titanium dioxide nanoparticles-functionalized hydroxyapatite efficient removal of bisphenol A from aqueous media. Article 31 revealed Periwinkle Shell Hydroxyapatite's potential as an effective, sustainable adsorbent for removing heavy metals from industrial wastewater. Article 32 examined the prevalence of microplastics (MPs) and toxic metals (TMs) in soils and freshwater fish in three urban centres, Osogbo, Ilesa and Ile-Ife, in southwestern Nigeria. Article 33 confirmed Adsorption of Rhodamine-B on Functionalized Hydroxyapatite-Chitosan Titanium Dioxide Nanoparticles.

Dr. Adetoro R.O.

Signature:



Date: 08-08-2026