

## EDUCATION

- 2017 – 2020**      **University of Chinese Academy of Sciences, Beijing, China**  
Doctor of Philosophy (Ph.D.), Environmental Science,  
Dissertation: *Toxicological mechanisms of micro/nanoplastic particles in Daphnia magna and Danio rerio*  
Advisors: Professor L. Zhao, Professor L-H Guo, Dr. W. Bin
- 2014 – 2016**      **Federal University of Technology Akure, Nigeria**  
Master of Technology (M.Tech) Analytical Chemistry,  
Thesis: *Assessment of anti-corrosion potentials of extracts of Ficus asperifolia –Miq (Moraceae) and Enantia chlorantha on mild steel in acidic medium*  
Advisor: Professor A. E. Okoronkwo, Fellow, NCS.
- 2011 – 2014**      **Federal University of Agriculture, Abeokuta, Nigeria**  
Bachelor of Science (B.Sc), Chemistry  
Thesis: *Phytoconstituents of the root of Ficus asperifolia -Miq (Moraceae)*  
Advisor: Dr. A. A. Lasisi
- 2008 – 2010**      **Federal University of Technology Akure, Nigeria**  
Postgraduate Diploma (PGD.), Chemistry  
Thesis: Quantitative speciation of heavy metals in soil solution. FUTA Farm: A case study  
Advisor: Professor A. F. Aiyesanmi, Fellow, NCS.
- 2001- 2004**      **Osun State Polytechnic, Iree, Nigeria**  
Higher National Diploma (HND), Applied Chemistry  
Thesis: Medicinal properties of Garcinia kola  
Advisor: Dr. (Mrs.) E.O. Faboro
- 1998-2001**      **Osun State Polytechnic, Iree, Nigeria**  
National Diploma (ND), Science Laboratory Technology  
Thesis: Different Solvent Extraction of caffeine from tea leaves  
Advisor: Dr. O.O. Oyeleke

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## RESEARCH EXPERIENCE

### 2020 - NOV 2021

Researcher Fellow, Division of Environmental and Earth Sciences. Center for Energy Research and Development, Obafemi Awolowo University, Ile-Ife, Nigeria.

### 2017 - 2020

Researcher Assistant, State Key Laboratory of Environmental Chemistry and Ecotoxicology, Research Centre for Eco-Environmental Sciences, University of Chinese Academy of Sciences, Beijing, China.

### 2006 – 2017

Laboratory Scientist, (Head, Laboratory section), Department of Pharmacognosy, Faculty of Pharmacy, Obafemi Awolowo University, Ile-Ife, Nigeria

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## PUBLICATIONS

1. Adelodun, B, Ajibade, FO, Tihamiyu, AO, Nwogwue, NA, Ibrahim, RG, Kumar, P, Kumar, V, Odeya, G, Yadav, KK, Khanl, AH, Cabral-Pinto, MMS, Kareem, KY, Bakare, HO, Ajibade, TF, Naveed, QN, Islam, S, **Fadare, OO**, Choi, KS (2021). Monitoring the presence and persistence of SARS-CoV-2 in water-food-environmental compartments: State of the knowledge and research needs. *Environmental Research*, 200, 111373.
2. Nel, HA, Naidoo, T, Akindede, EO, Nhiwatiwa, T, **Fadare, OO**, Krause, S (2021). Collaboration and infrastructure is needed to develop an African perspective on micro(nano)plastic pollution. *Environ. Res. Lett.* 16, 021002.
3. **Fadare, OO**, Okoffo, ED, and Olasehinde EF (2021). Microparticles and Microplastics contamination in African Table Salts. *Marine Pollut. Bull.* 164, 112006.
4. Alimi, OS, **Fadare, OO**, and Okoffo, ED (2020). Microplastics in African Ecosystems: Current knowledge, abundance, associated contaminants, techniques, and research needs. *Science of the Total Environment*, 755, 142422.
5. **Fadare, OO**, and Okoffo, ED (2020). Covid-19 face masks: A potential source of microplastic fibres in the environment. *Science of the Total Environment*, 737, 140279.
6. Khoshnamvand, M, Hao, Z, **Fadare, OO**, Hanachi, P, Chen, Y, and Liu, J (2020). Toxicity of biosynthesized Silver nanoparticles to aquatic organisms of different trophic levels. *Chemosphere*, 258, 127346.
7. **Fadare, OO**, Wan, B, Liu, K, Yang, Y, Zhao, L, and Guo, L-H (2020). Eco-corona vs Protein corona: effects of humic substances on corona formation and toxicity of nanoplastic particles in *Daphnia magna*. *Environmental Science and Technology*, 54, 8001–8009.
8. **Fadare, OO**, Wan, B, Zhao, L, and Guo, L-H (2020). Microplastics from consumer plastic food containers: Are we consuming it? *Chemosphere* 253, 126787.

9. **Fadare, OO**, Wan, B, Guo, L-H, Xin, Y, Qin, W, and Yang, Y (2019). Humic acid alleviates the toxicity of polystyrene nanoplastic particles to *Daphnia magna*. *Environmental Science: Nano*. 6, 1466–1477.
10. **Fadare, OO**, Okoronkwo, AE, and Olasehinde, EF (2016). Assessment of Anti Corrosion Potentials of Extracts of *Ficus Asperifolia* - Miq (Moraceae) on Mild Steel in Acidic Medium. *African Journal of Pure and Applied Chemistry*. 10, 8-22.
11. Oladele, AT, and **Fadare, OO** (2015). Heavy Metals and Proximate Composition of Forest Leafy Vegetables in Oil Producing Area of Nigeria. *Ethiopian Journal of Environmental Studies & Management*. 8, 451-463.

## BOOK CHAPTER

1. Ajibade, FO, Adelodun, B, Lasisi, KH, **Fadare, OO**, Ajibade, TF, Nwogwu, NA, Sulaymon, ID, Ugya, AY, Wang, HC, Wang, A. (2020). Environmental Pollution and their Socio-economic Impacts. In: Kumar, A., Singh, V. K., Singh, P. K., and Mishra, V. (eds) *Microbe mediated Remediation of environmental contaminants*, Elsevier (Woodhead Publisher), UK. Pp. 321-354.

## PRINT MEDIA ARTICLES

1. Nel, HA, Okoffo, ED, Ilechukwu, IP, **Fadare, OO** (2021). Pan-African research networks are needed to manage continent’s plastic pollution threat. *The Conversation-Africa*. 2021. <https://theconversation.com/pan-african-research-networks-are-needed-to-manage-continent-plastic-pollution-threat-168244>. Accessed October 11, 2021

## PAPER UNDER PEER-REVIEW

1. Enyoh, CE, **Fadare, OO**, Paredes, M, Wang, Q, Verla, AW, Shafea, L, Chowdhury, T. (2021). An Overview of Physical, Chemical and Biological Methods for Removal of Microplastics. In: *Microplastics Pollution in the Aquatic Media: Occurrence, Detection, and Removal* (Mika Sillanpaa & Ali Khadir). Springer Publishers
2. **Fadare, OO**, Enyoh, CE, Afegbua, SL, Ilechukwu, I, Ogundele, KT, Ajibade, FO, Idowu, GA, Makinde, OW, Tunbosun, IA. (2021) Demand-Driven Research on Public Perception of Single-use Plastics in Nigeria. *Environmental Research*.

## PRESENTATIONS

**Fadare, OO**. (14 July 2021). “Identification of key sources of litter in the Indonesia marine ecosystem” Oral presentation hosted virtually, organized by the Institute of Marine Science, University of Plymouth, United Kingdom.

Nel, HA, Naidoo, T, Akindele, EO, Nhiwatiwa, T, **Fadare, OO**, & Krause, S. (2021) Collaboration and infrastructure are needed to develop an African perspective on micro(nano)plastic pollution. The Geological Society: *Plastics in the Environment*, Virtual Symposium. United Kingdom.

**Fadare, OO.** (31 March 2021). "Mismanaged Plastics and Plastic particles: A Global Emerging Pollutants" Oral presentation at the Centre for Energy Research and Development, Obafemi Awolowo University, Ile-Ife, Nigeria.

**Fadare, OO.** (2 February 2021). "Interactions of Micro(nano) plastics with different Environmental Compartment" Oral presentation hosted virtually, organized by the Chemistry and Chemical Biology Department, Northeastern University, Boston, MA, United States.

**Fadare, OO.** (1 February 2021). "Mismanaged Plastics and plastic particles: A global emerging pollutants" Oral presentation hosted virtually, organized by the Chemistry and Chemical Biology Department, Northeastern University, Boston, MA, United States.

**Fadare, OO.** (08 October 2020). "Potentiating effect of Nanoplastics to Dichlorodiphenyltrichloroethane in Zebrafish larvae" Oral presentation hosted virtually, organized by Rochman Laboratory, Department of Ecology & Evolutionary Biology, University of Toronto, Canada.

**Fadare, OO, Wan, B, Zhao, L, and Guo, L-H** (3-4 March 2020). "Microplastics from food delivery containers" Poster presentation hosted on #RSCPoster Twitter Conference, organized by the Royal Society of Chemistry, United Kingdom.

**Fadare, OO, Wan, B, Guo, L-H, and Zhao, L** (December 2019). "Comparative study of the influence of humic substances on nanoplastic particles toxicity and corona formation in *Daphnia magna*" Oral presentation at RCEES Annual Report Meeting at the Research Centre for Eco-environmental Sciences, CAS, Beijing, China

**Fadare, OO, Wan, B, Guo, L-H, Xin, Y, Qin, W, and Yang, Y** (December 2018). "Humic acid Interactions with nanoplastic particles: Toxicological effects in *Daphnia magna*" Oral presentation at RCEES Annual Report Meeting at the Research Centre for Eco-environmental Sciences, CAS, Beijing, China

**Fadare, OO, Wan, B, and Guo, L-H** (December 2017). "Investigation of the Nano- and Microplastic particles as vectors for hydrophobic organic pollutants toxicity in freshwater *Daphnia magna* and *Danio rerio*." Oral presentation at RCEES Annual Report Meeting at the Research Centre for Eco-environmental Sciences, CAS, Beijing, China.

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## RESEARCH SKILLS

Ecotoxicological methods, Molecular techniques, Laser Confocal Microscopy, Scanning Electron Microscopy (SEM), Fourier-transform infrared (ATR-FTIR) spectrometry, UV-Vis spectrophotometry, material characterization (hydrodynamic diameter, Zeta potential), Fluorometry, Chromatographic techniques (CC, GC-MS, LC-MS/MS), Quantitative Polymerase

chain reaction (qPCR), Zebrafish husbandry and embryonic exposure protocols, and Daphnia cultivation.

Software Application Packages (Microsoft office, Origin, QGIS, Rstudio, Grass GIS, Primet).

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## **GRANTS, AWARDS AND HONOURS**

- 2021** Alexander von Humboldt Postdoctoral Fellowship
  - 2017** University of Chinese Academy of Sciences PhD Fellowship for International Students
  - 2017** National Key Research and Development Program of China Research Grant
  - 2017** National Natural Science Foundation of China Grant (RCEES)
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## **PROFESSIONAL MEMBERSHIPS**

- 2021** Society of Environmental Toxicology and Chemistry (SETAC)
  - 2019** Royal Society of Chemistry (AMRSC)
  - 2018** International Humic Substances Society (IHSS)
  - 2015** Institute of Public Analysts of Nigeria (IPAN)
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## **OTHER KEY ACADEMIC MERITS:**

- Editorial board member – Environmental Science: Europe
  - Peer-Reviewer – Environmental Science and Technology Letters
  - Peer-Reviewer – Science of the Total Environment, STOTEN
  - Peer-Reviewer – Frontiers in Marine Science
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## **SCIENTIFIC AND SOCIETAL IMPACT**

- 2020 Coordinator and Convener, Pan-African Micro(Nano)plastic Research Network (PAN-Microplast).
  - 2017 NUGA Vice-Chancellor Investigation Committee (Member), Obafemi Awolowo University, Ile-Ife.
  - 2015 Central Working Committee (Secretary), School of Science Alumni Association, Ile-Ife, Nigeria.
  - 2015 Independent Electoral Commission (INEC). Ad hoc Staff (Polling Officer), Ife Central Local Government.
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## **CONFERENCES, SEMINARS, WEBINARS, AND WORKSHOPS ATTENDED**

- 2021 PAN-Microplast Webinar on Micro(nano)plastic Research in Africa: Developing a roadmap.

- 2021 Nigerian Academy of Science, Second Scientific Conference on “Applied and Translational Research in National Development.
- 2020 UNEP Webinar series on Single-Use Plastic Products Policy Development and Learnings from Life Cycle Assessment.
- 2020 Southern California Water Research Project Webinar series, Microplastics Health Effects Workshop. Managing for Microplastics: A Baseline to Inform Policy Stakeholders
- 2020 IMP.act, Webinar on Microplastics in Galway Bay, Managing for Microplastics: A Baseline to Inform Policy Stakeholders.
- 2020 International Conference on Marine Science (ICMS 2020), Tropical Oceans for the future, Colombia.
- 2020 Ocean Plastics Webinars (Monthly series).
- 2020 PerkinElmer Webinars - Emerging Pollutants and Their Marine Ecotoxicological Impact.
- 2020 International Water Association Webinar on "COVID-19: Sewage Monitoring for Public Health",
- 2020 CARTA-Obafemi Awolowo University webinar on Research Capacity Strengthening.
- 2020 IC-UCAS Interdisciplinary sciences conference for Oversea students held at the Institute of Urban Environment, CAS, Xiamen, China.
- 2019 18th Beijing Conference Exhibition on Instrumental Analysis BCEIA 2019 held at China National Convention Center on “Environmental Analysis.”
- 2019 IC-UCAS Interdisciplinary sciences training held at Five-hundred-metre Aperture Spherical Radio Telescope (FAST) Centre, Pingyang, China.
- 2018 12th Environmental Conference on New Theories and New Technology of Environmental Science and Engineering, held at Tsinghua University, Beijing.
- 2017 17th Beijing Conference Exhibition on Instrumental Analysis BCEIA 2017 held at China National Convention Center on “Environmental Analysis.”

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## RESEARCH INTEREST

Persistent organic pollutants (POPs) in the environment, Investigation of the Nano- and Microplastic particles as vectors for hydrophobic organic pollutant toxicity in vertebrate and invertebrate organisms, Nano-Bio Interaction of micro(nano) plastics, effects of different Micro/Nanoplastics types and sizes on aquatic organisms, Human exposure routes to microplastics, organic pollutants, and plastic pollution.

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