Adetunji M. Oyawale

Physics Laboratory Coordinator, University of West Georgia

Address: TLC-2135, Perry College of Mathematics, Computing, and Sciences

University of West Georgia, Carrollton, GA 30118, USA

Email: aoyawale@westga.edu

Phone: 678-839-4095

EDUCATION

University of Science and Technology of China, 2020

China

Doctor of Engineering (Ph.D.) in Nuclear Science and Technology

National Synchrotron Radiation Laboratory

Thesis: "Synthesis, X-Ray Characterizations, and Bio-Applications of Two-Dimensional Nanomaterials"

Obafemi Awolowo University, 2015

Nigeria

Master of Science (M.Sc.) in Medical Physics

Department of Physics and Engineering Physics

Thesis: "Hematological and Histomorphological Effects of Electromagnetic Radiation"

Adekunle Ajasin University, 2008

Nigeria

Bachelor of Science (B.Sc.) in Physics and Electronics

Department of Physics and Electronics

Thesis: " Design and Development of a Versatile AC-to-DC Power Converter "

WORK EXPERIENCE

WORK EXI ENLINGE		
Nov 2022 – Jul 2024 Postdoctoral Research Fellow	West China Hospital of Sichuan University.	China
Nov 2020 – Aug 2022 Postdoctoral Research Fellow	Shenzhen Institute of Advanced Technology.	China
Mar 2008 – Feb 2009 Physics Lecturer (NYSC)	Auchi Polytechnic.	Nigeria

AWARDS

- 1. Excellent Employee of the Year: Shenzhen Institute of Advanced Technology, 2022
- 2. Outstanding International Student of the Year: University of Science and Technology of China, 2019

SELECTED SCIENTIFIC PUBLICATIONS

- 1. Machine learning and robot-assisted synthesis of diverse gold nanorods via seedless approach: *Artificial Intelligence Chemistry*, 1(2), 100028. (2023).
- 2. Visualizing Catalytic Dynamics Processes via Synchrotron Radiation Multitechniques: *Advanced Materials*, 35(30), 2205346. (2023).
- 3. Room-temperature multiferroic properties of Ni-doped PbTiO₃ nanocrystals: *Journal of Alloys and Compounds*, 956, 170337. (2023).
- 4. Support Induced Phase Engineering Toward Superior Electrocatalyst: Nano Research, 15(3), 1831-1837. (2022).
- 5. 2D materials inks toward smart flexible electronics: *Materials Today*, 50, 116-148. (2021).
- 6. Synergistic Ice Inhibition Effect Enhances Rapid Freezing Cryopreservation with Low Concentration of Cryoprotectants: *Advanced Science*, 8(6), 2003387. (2021).
- 7. Integration of Data-Intensive, Machine Learning, and Robotic Experimental Approaches for Accelerated Discovery of Catalysts in Renewable Energy-Related Reactions: *Materials Reports: Energy*, 1(3), 100049. (2021).
- 8. Probing self-optimization of carbon support in oxygen evolution reaction: *Nano Research*, *14*(12), 4534-4540. (2021).
- 9. Anomalous self-optimization of sulfate ions for boosted oxygen evolution reaction: *Science Bulletin*, 66(6), 553-561. (2021).
- 10. Operando X-ray Spectroscopy Visualizing the Chameleon-like Structural Reconstruction on an Oxygen Evolution Electrocatalyst: *Energy & Environmental Science*, *14*(2), 906-915. (2020).
- 11. Engineering the In-Plane Structure of Metallic Phase Molybdenum Disulfide via Co and O Dopants toward Efficient Alkaline Hydrogen Evolution: *ACS nano* 13(10), 11733-11740. (2019).
- 12. PVP Intercalated Metallic WSe₂ as NIR Photothermal Agents for Efficient Tumor Ablation: *Nanotechnology*, 30(6), 065102. (2018).

CONFERENCES & WORKSHOP

Carbon-Rich Intercalation Triggered Phase Engineered 1T-WSe₂ in NIR Laser Cancer Therapy
 (*Physical Review Workshop on New Frontiers of Superconductivity, Hefei, China*).
International training workshop of radiation safety and protection technology, Hefei, China.
2019