

# UNIVERSITY OF IBADAN

## CURRICULUM VITAE

- I (a) Name: Olusegun Olufemi Ajide  
(b) Date of Birth: 24 July, 1976  
(c) Department: Mechanical Engineering  
(d) Faculty: Technology
- II (a) First Academic Appointment: Lecturer II (1 December, 2010)  
(b) Present Post (with date): Reader (1 October, 2020)  
(c) Date of last Promotion: 1 October, 2020  
(d) Date Last Considered (in cases where promotion was not through): Not applicable
- III University Education (with Dates):  
(a) Obafemi Awolowo University, Ile-Ife. 1996-2003  
(b) University of Ibadan, Ibadan. 2006-2008  
(c) University of Ibadan, Ibadan. 2009-2016
- IV Academic Qualifications (with dates and granting Bodies):  
(a) B.Sc. (Hons.) Metallurgical and Materials Engineering, Obafemi Awolowo University, Ile-Ife. 2003  
(b) M.Sc. Mechanical Engineering, University of Ibadan, Ibadan. 2008  
(c) Ph.D Mechanical Engineering, University of Ibadan, Ibadan. 2016
- V Professional Qualifications and Diplomas (with dates):  
Registered Engineer, Council for the Regulation of Engineering in Nigeria (COREN)  
(R.18382) 2010
- VI Scholarship, Fellowships and Prizes (with dates) in respect of Undergraduate and Postgraduate Work Only:  
(i) Professor Bamiro Prize for the overall Best M.Sc. student in Mechanical Engineering (Solid Mechanics), University of Ibadan, Ibadan. 2008  
(ii) Visiting Scholar, 3-month research programme at the Department of Mechanical and Manufacturing Engineering, University of Manitoba, Winnipeg, Manitoba, Canada. This research was carried out under the sponsorship of TETFund Academic Staff Training and Development (AST&D) Intervention from 12 May, 2016 to 10 August, 2016.

(iii) Overseas scholarship for teachers training programme on renewable energy systems held at Hessische Landesstelle für Technologiefortbildung, Groß-Gerau, Germany from 6 March 2017 to 31 March, 2017.

(iv) Postdoctoral Fellow, 1-year postdoctoral research programme at the Department of Mechanical Engineering, Howard University, Washington D.C, United States of America from 8 August, 2017 to 7 August, 2018.

VII Honours, Distinctions and Membership of Learned Societies:

- (a) Member, Nigerian Society of Engineers (NSE)  
(Membership No.:21036) 2009
- (b) Member, Nigerian Institution of Mechanical Engineers  
(Membership No.:A00672) 2011
- (c) Member, American Society of Mechanical Engineers (ASME)  
(Membership No.:102345560) 2018

VIII Details of Teaching/Work Experience

- a. Mathematics/Physics Teacher, Camila High School,  
Ila-Orangun, Osun State 2004-2006
- b. Mathematics/Physics Teacher, Osun State Post Primary Schools Teaching  
Service Commission (TESCOM) 2006-2010
- c. Project Site Engineer/Manager (volunteer), PRETOX Engineering  
Nigeria Limited 2010
- d. University of Ibadan
- i. Lecturer II 1 December, 2010 - 30 September, 2014
  - ii. Lecturer I 1 October, 2014 - 30 September, 2017
  - iii. Senior Lecturer I 1 October, 2017- 30 September, 2020
  - iv. Reader 1 October, 2020 till date

*Teaching Experience: Undergraduate courses taught*

Course Code	Course Title	Unit	Sessions	Remark
TME 223	Introduction to Engineering Practice	2	2013-2016	Singly taught
TME 315	Strength of Materials II	3	2010-2012	Jointly taught in 2010 and Singly taught in 2011-2012
TME 313	Materials Science	4	2010-2016, 2018-2023	Singly taught
TME 312	Workshop Practice	1	2010/2011	Jointly taught

TME 413	Advanced Strength of Materials	3	2011/2012	Singly taught
TME 515	Fracture of Structural Materials	4	2012-2016, 2018-2021	Singly taught
TME 523	Applied Dynamics	3	2021/2022, 2022/2023	Singly taught

*Teaching Experience: Postgraduate courses taught*

Course Code	Course Title	Unit	Sessions	Remark
TME 702	Dynamics	3	2021/2022,2022/2023	Singly taught
TME 715	Creep, Fatigue and Fracture	4	2016-2019	Singly taught
TME 731	Energy Management and Planning	4	2017-2019	Singly taught
TME 733	Conventional Energy Conversion	3	2022/2023	Singly taught
TME 737	Energy Policy and Economics	3	2018/2019	Singly taught
TME 738	Energy Resources	4	2018/2019	Singly taught

*Research Supervision*

	Completed	Ongoing
M.Sc	14	2
M.Phil	Nil	Nil
Ph.D	2	5

*Details of Administrative Duties*

- (i) Sub-Dean (Postgraduate), Faculty of Technology (01 August, 2021 - 31 July, 2023, 01 August, 2023 till Date).
- (ii) Member, Executive Committee, Postgraduate College, University of Ibadan (01 August, 2021 till date).
- (iii) Member, Postgraduate College Board, University of Ibadan (01 August, 2021 till date).
- (iv) Member, Committee on the Terminal Nature of Postgraduate Diploma in the University of Ibadan (26 January, 2023 till Date).
- (v) Member, Committee on the University of Ibadan Manual of Style (26 January, 2023 till Date).
- (vi) Member, Sub-Committee on Design of Scoring Template for M.Phil. and Ph.D. Examinations in the University of Ibadan (25 May, 2023 till Date).
- (vii) Member, Committee on Selection of the Best Ph.D. Theses (11 September, 2023 till Date).

- (viii) Supervisor, University of Ibadan Postgraduate College Test of Proficiency in English (TPE) for Prospective Postgraduate Students ( 2023).
- (ix) Member, Faculty Finance Committee (01 August, 2021 till date)
- (x) Postgraduate Coordinator (1 June 2019-31 July, 2021).
- (xi) Coordinator, Time-Table and Curriculum Development (2016/2017).
- (xii)Invigilator, University of Ibadan POST-UTME Examinations (2015).
- (xiii) Undergraduate Projects Coordinator (2012-2015).
- (xiv) Coordinator, Examinations Committee (2012-2014).
- (xv) Member, Energy Technology and Management Committee (2010-2015).
- (xvi) Assistant Coordinator, Seminar Coordination Team (2012-2014).
- (xvii)Secretary, Direct Teaching and Laboratory Cost Committee (2012/2013).
- (xviii) Member, Student Liaison Committee (2012/2013).
- (xix) Member, Examination Committee (2010-2012).
- (xx) Assistant Chief Registration Officer (2011/2012).
- (xxi) Member, Results Committee (2010-2012).

#### *Details of Community Services*

- (i) Editorial Secretary/ Assistant Chair (Technical Session Sub-Committee), 35th edition of Nigerian Institution of Mechanical Engineers (NIMechE) International Conference, 18-21 October, 2022.
- (ii) Internal/External Examiner for Ph.D oral examination, Department of Wood Products Engineering, University of Ibadan, Nigeria (31 July, 2023).
- (iii)External Assessor/Examiner for Masters by Research, Department of Civil Engineering (Specialisation: Structural Materials), Fiji National University, Suva, Fiji Island (16 February, 2022).
- (iv)Reviewer, Current Journal of Applied Science and Technology (2022 till date)
- (v) Reviewer, Algerian Journal of Engineering and Technology (2021 till date)
- (vi) Reviewer, FUOYE Journal of Engineering and Technology (2021 till date)
- (vii) Reviewer, Materials Science and Applications (2020 till date).
- (viii) Reviewer, World Journal of Engineering and Technology (2020).
- (ix) Reviewer, Journal of Advanced Research in Fluid Mechanics and Thermal Sciences (2020).
- (x) Member, UNIBADAN FabLab 10-Man Management Team (2020 till date)
- (xi)Member, Investiture Planning Committee for 26th Chairman of the Nigerian Society of Engineers (NSE). The programme was held on 16th January, 2020 at Jogor Center, Ibadan.

- (xii) Internal/External Examiner for Ph.D oral examination, Department of Chemistry, University of Ibadan, Nigeria (30 August, 2019).
- (xiii) Member, Faculty Biennial Conference Committee (2019 till date).
- (xiv) Member, Faculty Business Conference Committee (2019 till date).
- (xv) Member, Exhibition Sub-committee for 2019 Engineering Week of the Nigerian Society of Engineers (NSE), (2017/2018).
- (xvi) Member, Induction Committee for Graduate Member, Nigerian Society of Engineers, Faculty of Technology, University of Ibadan (2014-2023).
- (xvii) Member, Faculty of Technology Automation Committee (2015-2017).
- (xviii) LOC Secretary, International Conference of Mechanical Engineering, Energy Technology and Management (IMEETMCon 2016).
- (xix) Member, Faculty Inaugural Lecture Sub-Committee (2016/2017).
- (xx) LOC Secretary, International Conference of Mechanical Engineering, Energy Technology and Management (IMEETMCon 2014).
- (xxi) Reviewer, SEEM Research and Development Journal, The Federal Polytechnic. Ado-Ekiti, Nigeria. (Paper Reference No.: SEEM/2014/Vol13/018) (2014).

## IX Research:

### (a) Completed

- i. Bifurcation diagrams of some selected chaotic systems.
- ii. Development and characterisation of coconut shell ash reinforced aluminium metal matrix composites for structural applications.
- iii. High temperature corrosion behaviour of single-crystal CMSX-4 and CMSX-486 superalloys in the mixture of Na<sub>2</sub>SO<sub>4</sub>-NaCl Melts.
- iv. Influence of deposition time variation and mass concentration of MgO on the corrosion response and microstructure of Zn-MgO-Al<sub>2</sub>O<sub>3</sub> electroplated mild steel. European.
- v. Effect of post-weld heat treatments on the corrosion and microstructure properties of mild steels treated by electric metal arc welding.
- vi. Investigating the effect of ageing heat treatment on the mechanical, microstructural and corrosion behaviour of chromium-modified Al-Mg-Si Alloy.
- vii. Synergistic influence of banana pseudo stem fibre and synthetic fibre on mechanical, thermal stability and tribological properties of epoxy-based composites.
- viii. High temperature compression response of solution-treated Al-Mg-Si alloy fatigue and crack propagation characteristics of two ferrous based alloy materials.
- ix. Plane stress fracture toughness of cryorolled 6082 Al alloy.
- x. Fatigue responses, tensile properties and fractography of three AA 2000 series aluminum alloys for aerospace applications.
- xi. Investigative studies on influence of zinc content on the mechanical and corrosion responses of Al6063-SiC composite.
- xii. Investigations on impact of ageing heat treatment on mechanical response, microstructure and electrochemical corrosion of chromium-modified Al-Mg-Si Alloy.
- xiii. Investigations on effects of build parameters and strain rate on the mechanical properties of FDM 3D-Printed Acrylonitrile Butadiene Styrene.
- xiv. Examining the mechanical response and microstructural evolution of heat-treated Al-5Si-3Cu Alloy for automotive applications
- xv. Investigation of initial metallurgical factors on the dynamic impact response and adiabatic shear bands formation on the 6061 Al Alloy

(b) In Progress

i. Dynamic impact response of multi-pass friction stir processed AA6061-T6 aluminum alloy under high strain rates.

Consequent to the rising global threat of terrorism, long range missiles and improvised explosive devices, there has been a huge surge in worldwide demand for development of high strain rate damage resistant structures. In this research, studies on the influence of multi-pass Friction Stir Processing (FSP) on the dynamic response of AA6061-T6 at high strain rate were proposed. The work commenced in July 2018, with dynamic test using the Split Hopkinson Pressure Bar (SHPB). Mechanical characterisation was completed in May 2020. The latter part of this work which is post-impact test microstructural characterisation is scheduled to be completed in September, 2024. This work is 75% completed.

ii. High strain-rate compressive behaviour and strain hardening response of multiaxially forged Ultrafine Grained (UFG) alloys (Al-Mg-Si, AA 8090, AA 6351, AA 5052, AA 2219 and AA 2519).

The renewed interest for improved alloy materials for structural armour application can be attributed to the problem of deformation and failure in conventional alloys at high strain rate often initiated by intense localisation. This research work proposed to process selected alloys through multiaxial forging at 2, 4 and 6 cycles and investigate their dynamic responses under high strain rates. The work started with dynamic impact experiments in July 2018 using SHPB. Mechanical characterisation for all the alloys were completed in June, 2020. Dynamic response and microstructural characterisation of 2 cycles were completed in July 2023. The latter part of the microstructural characterisation (SEM, EBSD, EDS and TEM) of the alloys is expected to be completed by November, 2024. This research work is 70% completed.

iii. Synthesis, thermomechanical processing and characterisation of Al-Cr-BC based nanocomposites.

Rising demand for structural components with increased service duration, improved in-service performance, high strength to weight ratio and affordable cost implications has led to the synthesis of new composite based materials. Therefore, this study proposed to examine microstructure evolution, thermomechanical and tribological properties of as-synthesised AMCs subjected to secondary treatment. The work commenced with a preliminary study on synergetic use of heat treatment and selected thermomechanical treatment techniques as secondary treatment for AMCs in October, 2020. This work has been scheduled to be completed in November, 2024. This research work is 20% completed.

(c) Project, Dissertation and Thesis:

- i. Ajide O. O. (2003), Design and Fabrication of Buckling Machine for Determining Buckling Effect of Nail (B.Sc. Special project report, Metallurgical and Materials Engineering, Obafemi Awolowo University, Ile-Ife, Nigeria), 67pp.
- ii. Ajide O. O. (2008), Bifurcation Diagrams of Some Selected Chaotic Systems (M.Sc. Special project report, Mechanical Engineering, University of Ibadan, Nigeria), 113pp.
- iii. Ajide O. O. (2016), Development and Characterisation of Coconut Shell Ash Reinforced Aluminium Metal Matrix Composites for Structural Applications (Ph.D. Thesis, Mechanical Engineering, University of Ibadan, Nigeria), 373pp.



X Publications:

- (a) Books already published: Nil
- (b) Chapters in Books already published: Nil
- (c) Articles that have already appeared in Referred Conference Proceedings:

1. Salau, T.A.O. and **Ajide, O.O.** (2011). Frequency Analysis of Numbers: Applications in Ergonomic and Diagnosis of Computer Keyboard Faults. In Oluleye, A.E. and Akanbi, O.G. (Eds.). Infrastructural Development for Industrialization: Challenges and Prospects: International Conference Proceedings of Nigerian Institution of Industrial Engineers.4-6 August 2011.Conference Centre, University of Ibadan: 140-158pp. (Nigeria) (Contribution: 30%).
2. Oluwole, O.O., Garus-Alaka, W. and **Ajide, O.O.** (2012). Corrosion Analysis of Nickel and Gold Plated Carbon Steel Ornamentals in Sulphuric Acid Medium. In Oluleye, A. E., Anyaeche, C.O. and Akanbi, O.G. (Eds.). Energy and Challenges of National Transformation: International Conference Proceedings of Nigerian Institution of Industrial Engineers. 9-11 August, 2012.University of Benin, Benin: 51-60pp. (Nigeria) (Contribution: 20%).
3. Daramola, O.M. and **Ajide, O.O.** (2012). Reduction of Technical and Commercial Losses in Electric Power Distribution in Nigeria. In Ismail, O. S., Idusuyi, N. and Olugasa, T. T. (Eds.). Energy Technology & Management for Sustainable Development: Energy Technology and Management Conference. 5-7 September 2012. Conference Centre, University, Ibadan: 266-272pp. (Nigeria). (Contribution: 40%).
4. **Ajide, O.O.**, Olajide, O.S. and Idusuyi, N. (2013). Corrosion Characteristics of Selected Steel Alloys in Seawater. In Oluleye, A.E., Anyaeche, C.O. and Akanbi, O.G. (Eds.). Energy and Challenges of National Transformation: International Conference Proceedings of Nigerian Institution of Industrial Engineers. 13-15 November, 2013. Engineering Board Room, Federal University of Technology, Owerri: 20-27pp. (Nigeria) (Contribution: 50%).
5. **Ajide, O.O.**, Oluwole, O.O., Abu, R. and Idusuyi, N. (2014). Development of Aluminium Based Composites: A Critical Review. In Ismail, O.S., Ajide, O.O., Abu, R., Idusuyi, N. and Olugasa, T.T. (Eds.). Energy Technology and Adaptability to Climate Change for Sustainable Development: International Conference of Mechanical Engineering, Energy Technology and Management. 3-5 September, 2014. Conference Centre, University of Ibadan, Ibadan: 264-279pp. (Nigeria) (Contribution: 60%).

6. **Ajide, O.O.**, Oluwole, O.O., Salau, T.A.O. and Oyewola, O.M. (2015). A Review of Mechanical Characteristics of Aluminium Based Composites Produced from Stir Casting Technique. In Agbede, O. A. and Oyewola, O. M. (Eds.). Energy Technology for Sustainable Development and Security: Proceedings of the First Faculty of Technology Conference, University of Ibadan. 6-8 July 2015, Conference Centre, University of Ibadan, Ibadan: 305-313pp. (Nigeria) (Contribution: 60%).
7. Idusuyi, N., Oluseyi, O., **Ajide, O.O.** and Ajayi, O.K. (2016). The effect of Al-Zn-ZnO Anode Parameters on a Buried Mild Steel Pipe. In Ismail, O.S., Ajide, O.O., Abu, R., Petinrin, M.O., Idusuyi, N. and Olugasa, T.T. (Eds.). Green Technology, Energy Systems and Environmental Protection for Sustainable Development: Proceedings of the International Conference of Mechanical Engineering, Energy Technology and Management. 7-9 September, Conference Centre, University of Ibadan, Ibadan: 709-717pp. (Nigeria) (Contribution: 20%).
- 8 Osunbunmi, I.S., **Ajide, O.O.** and Oluwole, O.O. (2018). Effect of Heat Treatment on the Mechanical and Microstructural Properties of a Low Carbon Steel. In Adebayo, A. S., Odunfa, K. M. and Idusuyi, N. (Eds.). Energy and Applied Technology for Sustainable Advancement: Proceedings of the International Conference of Mechanical Engineering, Energy Technology and Management. 4-7 September, International Conference Centre, University of Ibadan, Ibadan: 346-354pp. (Nigeria) (Contribution: 45%).
- 9 **Ajide, O.O.**, Idusuyi, N., Ajayi O.K., Adetuberu, J. A., Adisa, O.A. and Isidore, C.C. (2019). Development of a Mini Dual-Fired Heat Treatment Furnace for Low Income Countries. In Akindahunsi, A.A., Gambo, I.P., Ikono, R.N., Ikujenlola, S.A. and Adio, S.A. (Eds.). Diversification of Developing Economies: Imperatives for Sustainable Environment and Technological Innovations: Proceedings of the OAU Faculty of Technology Conference. 22-25 September, Ile-Ife: 57-63pp. (Nigeria) (Contribution: 50%).
- 10 Oyewo, A., **Ajide, O. O.**, Odusote, J., Adefajo, A. and Fakorede, D. (2019). A Review of Woven Natural Fibre Composite for Spiral Ankle Foot Orthosis. In Abidoye, L.K., Okedere, O.B., Alawode, K.O., Ibrahim, R.B., Adebajo, A.U., Thanni, M.O. and Adeyemo, K. A.(Eds.). Advancing Technology and Environmental Burdens: Challenges and Sustainable Solution: 1st International Conference on Engineering, and Environmental Sciences, Osun State University. 5-7 September, Osogbo: 734-746pp. (Nigeria) (Contribution: 35%).

- \*11. **Ajide, O.O.**, Dada, T.O., Idusuyi, N., Musa, F.A., Aogo, O.A., Adebayo, A.S. and Kumar, N. (2022). Influence of Casting Moulds on the Tensile and Corrosion Characteristics of Palm Kernel Shell Ash Reinforced Al6063-SiC Composite. In Bindu, V., Tavares, J.M.R.S. and Chen, J.I.Z. (Eds.). *Advances in Sustainability Science and Technology: Springer Proceedings, 5th International Conference on Inventive Materials Science and Applications (ICIMA 2022)*, 6-7 May, Coimbatore: 115-129pp. (India) (Contribution: 50%).
- \*12. Ogbezode, J., **Ajide, O.O.**, Ofi, O. and Oluwole, O.O. (January, 2023). Determination of the Metallization Degree and Metallic Iron Content of Geothite-Hematite Ore Using the Non-Contact Direct Reduction Method. In Symys, S. and Vijayan, S. Tavares, (Eds.). *Research and Development on Material: Springer Proceedings, 4th International Conference on Inventive Research in Material Science and Technology (ICIRRMST 2023)*, 20-21 January, Coimbatore: 198-214pp. (India) (Contribution: 40%).

\* Publications which have appeared/been accepted since last promotion or appointment

(d) Patents and Copyrights: Nil

(e) Articles that have already appeared in Learned Journals:

13. **Ajide, O.O.** and Makinde, A.F. (2011). Microstructural Analysis of Selected Corroded Materials from Nigeria Oil and Gas Industry. *American Journal of Materials Science* Vol. 1. Issue 2: 108-112. (United States of America) (Contribution: 60%).
14. Salau, T.A.O. and **Ajide, O. O.** (2011). Investigating Duffing Oscillator Using Bifurcation Diagrams. *International Journal of Mechanics Structural* Vol.2. Issue 2:57-68. (India) (Contribution: 45%).
15. **Ajide, O.O.** and Agara, K.W. (2012). Comparative Assessment of Corrosion Behaviour of MCS and KS7 SS in Saline and Carbonate Environments. *Journal of Minerals and Materials Characterization and Engineering* Vol.11:836-840. (United States of America) (Contribution: 60%).
16. **Ajide, O.O.** and Agara, K.W. (2012). Comparative Study of Corrosion Characteristics of MCS and KS7 SS in Selected Acid Media. *International Journal of Metallurgical Engineering* Vol.1. Issue 1:7-11. (United States of America) (Contribution: 60%).
17. Salau, T.A.O. and **Ajide, O.O.** (2012). Comparative Analysis of Time Steps Distribution in Runge-Kutta Algorithms. *International Journal of Scientific & Engineering Research* Vol.3. Issue 1:1-5. (France) (Contribution: 30%).

18. Salau, T.A.O. and **Ajide, O.O.** (2012). Fractal Characterization of Dynamic Systems Sectional Images. *Journal of Information Engineering and Applications*. Vol.2. No. 7:21-31. (United States of America) (Contribution: 30%).
19. Ismail, O.S., **Ajide, O.O.** and Akingbesote, F. (2012). Performance Assessment of Installed Solar PV System: A Case Study of Oke-Agunla in Nigeria. *Engineering Journal, Scientific Research* Vol.4:453-458. (United States of America) (Contribution: 40%).
20. Salau, T.A.O. and **Ajide, O.O.** (2012). Development of Chaos Diagrams for Duffing Oscillator Using Linearity and Nonlinearity Characteristics of Periodic and Chaotic Responses. *International Journal of Engineering and Technology* Vol.2. Issue 9:1529-1538. (United Kingdom) (Contribution: 30%).
21. Salau, T.A.O. and **Ajide, O.O.** (2012). Linear Superposition of Symmetric IFS-Based Attractors and Fractal Characterization. *International Journal of Engineering and Technology* Vol.2. Issue 12:1984-1990. (United Kingdom) (Contribution: 30%).
22. Salau, T.A.O. and **Ajide, O.O.** (2013). Chaos Diagram of Harmonically Excited Vibration Absorber Control Duffing's Oscillator. *International Journal of Scientific and Engineering Research* Vol.4. Issue 1: 1-8. (France) (Contribution: 30%).
23. Salau, T.A.O. and **Ajide, O.O.** (2013). Parametric Investigation and Classification of Quadratic Equation. *International Journal of Scientific and Engineering Research* Vol.4. Issue 1:1-6. (France) (Contribution: 30%).
24. Salau, T.A.O. and **Ajide, O.O.** (2013). Correlation and Distribution Analyses of Estimated Fractal Dimensions and Hurst's Exponent from Waveforms of Excited Nonlinear Pendulum. *Global Journal of Researches in Engineering* Vol.13. Issue 7:6-12. (United States of America) (Contribution: 30%).
25. Salau, T.A.O. and **Ajide, O.O.** (2013). Comparative Analysis of Simulation Time in Nonlinear and Harmonically Excited Pendulum and Duffing Oscillators. *International Journal of Computers and Technology* Vol. 10. No.2:1286-1293. (United States of America) (Contribution: 30%).
26. Salau, T.A.O. and **Ajide, O.O.** (2013). Runge-Kutta Schemes Coefficient Simulation for Comparison and Visual Effects. *Engineering (Scientific Research)* Vol. 5: 530-536. (United States of America) (Contribution: 30%).

27. Salau, T.A.O. and **Ajide, O.O.** (2013). Fractal Characterisation and Comparison of Chaos Impact of Excited Duffing Oscillator Parameters. *International Journal of Engineering Science and Technology* Vol.5. No.3:547-554. (Singapore) (Contribution: 30%).
28. Salau, T.A.O. and **Ajide, O.O.** (2013). A Novel Graphic Presentation and Fractal Characterisation of Poincaré Solutions of Harmonically Excited Pendulum. *International Journal of Advances in Engineering and Technology* Vol.6. Issue 3:1299-1312. (Ethiopia) (Contribution: 30%).
29. Salau, T.A.O. and **Ajide, O.O.** (2013). Development and Investigation of Runge-Kutta Coefficients Dependent Stability Polynomial. *International Journal of Computer Science & Engineering Technology* Vol.4. Issue 7: 1091-1104. (India) (Contribution: 30%).
30. Salau, T.A.O. and **Ajide, O.O.** (2013). Application of Average Positive Lyapunov in Estimation of Chaotic Response Peak Excitation Frequency of Harmonically Excited Pendulum. *International Journal of Advances in Engineering and Technology* Vol.6. Issue 3:1409-1423. (Ethiopia) (Contribution: 30%).
31. Salau, T.A.O. and **Ajide, O.O.** (2013). Numerical Transformations and Fractal Characterization of some Selected IFS-Based Fractals. *International Journal of Engineering and Applied Sciences* Vol.4. No. 2:49-61. (Pakistan) (Contribution: 30%).
32. Oluwole, O.O., Adegoke, T.O. and **Ajide, O.O.** (2014). Development of a Field-Portable Potentiostat. *International Journal of Scientific & Engineering Research* Vol.5. Issue 4:654-661. (France) (Contribution: 20%).
33. Salau, T.A.O. and **Ajide, O.O.** (2014). Development of a Lyapunov Exponent Based Chaos Diagram in the Parameter Plane of Logistic Map. *British Journal of Applied Science & Technology* Vol.4. Issue 21:3096-3106. (United Kingdom) (Contribution: 40%).
34. Salau, T.A.O., Olaiya, K.A. and **Ajide, O.O.** (2014). Simulation of Oscillators Dynamics Using Selected Versions of Fourth Order Runge-Kutta Scheme. *International Journal of Engineering and Technology* Vol.4. No.8:444-454. (United Kingdom) (Contribution: 40%).
35. Salau, T.A.O. and **Ajide, O.O.** (2014). The Property Nature of Fractal Disk Dimension: A Case Study of Poincare Sections of Harmonically Excited Pendulum. *The Pacific Journal of Science and Technology* Vol.15. No.1:13-23. (United States of America) (Contribution: 40%).
36. Nwobi, E.U., **Ajide, O.O.** and Abu, R. (2014). Design and Cost Analysis of a 0.75 kW Solar Powered Pumping System. *International Journal of Scientific and Engineering Research* Vol.5. Issue 6:1544-1557. (France) (Contribution: 40%).

37. Salau, T.A.O. and **Ajide, O.O.** (2015). Fractal Investigation of Temporal Distribution of Simulated Phase Variables of a Chaotic Dynamic System. *New York Science Journal* Vol.8. Issue 9:6-14. (United States of America) (Contribution: 40%).
38. Odesola, I.F., Alabi, A., **Ajide, O.O.** and Fasogbon, S.K. (2015). Energy Analysis of Jebba Hydropower Plant. *Journal of Applied Science, Engineering and Technology* Vol.15 Issue 1:43-49. (Nigeria) (Contribution: 40%).
39. Oluwole, O.O., Olanipekun, A.T. and **Ajide, O.O.** (2015). Design, Construction and Testing of a Strain Gauge Instrument. *International Journal of Scientific & Engineering Research* Vol.6. Issue 4: 1825-1829. (France) (Contribution: 20%).
40. **Ajide, O.O.**, Oluwole, O.O., Abu, R. and Petinrin, M.O. (2016). Microstructural Characteristics of Aluminium Based Composites Developed by Liquid Metallurgy Route: An Overview. *International Journal of Engineering and Technology* Vol. 6. No.11: 405-415. (United Kingdom) (Contribution: 60%).
41. Petinrin, M.O., Oyedele, A.A. and **Ajide, O.O.** (2016). Numerical Analysis of Thermo-Elastic Contact Problem of Disc Brakes for Vehicle on Gradient Surfaces. *World Journal of Engineering and Technology* Vol. 4:51-58. (United States of America) (Contribution: 20%).
42. Idusuyi, N., **Ajide, O.O.**, Oluwole, O.O. and Arotiba, O.A. (2016). Electrochemical Impedance Study of an Al6063-12%SiC-Cr Composite in 3 wt% Sodium Chloride. *Procedia Manufacturing (Elsevier)* Vol. 7:413-419. (United States of America) (Contribution: 40%).
43. Salau, T.A.O. and **Ajide, O.O.** (2017). Adaptive Time Steps Runge-Kutta Methods: Comparative Analysis of Simulation Time in Nonlinear and Harmonically Excited Pendulum and Duffing Oscillators. *British Journal of Applied Science & Technology* Vol.19. No. 5:1-13. (United Kingdom) (Contribution: 50%).
44. Salau, T.A.O. and **Ajide, O.O.** (2017). Comparative Analyses of Iteratively Generated Fractals: The Cases of Two “Chaos Game” Options. *American Journal of Engineering Research* Vol. 6. Issue 1: 174-178. (United States of America) (Contribution: 50%).
45. **Ajide, O.O.**, Otesile A.O., Salau T.A.O., Ismail, O.S. and Oyewola O.M. (2017). Investigating Effect of Zinc Content on the Mechanical and Corrosion Responses of Al6063-SiC Composite. *Current Journal of Applied Science & Technology* Vol. 22. No.3:1-10. (United Kingdom) (Contribution: 50%).
46. **Ajide, O.O.**, Oyedele, J.O., Salau, T. A.O. and Abu, R. (2017). Investigating the Influence of Casting Parameters on the Mechanical and Microstructural Characteristics of Grade Al6063 Alloy. *American Journal of Engineering Research* Vol. 6. Issue 7:181- 190. (United States of America) (Contribution: 60%).

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50. Kumar, N., Owolabi, G.M., Jayaganthan, R. and **Ajide, O.O.** (2018). Plane Stress Fracture Toughness of Cryorolled 6082 Al Alloy. *Theoretical and Applied Fracture Mechanics* (Elsevier) Vol. 95:28–41. (United States of America) (Contribution: 30%).
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52. Hibbert, K., Warner, G., Brown, C., **Ajide, O.O.**, Owolabi, G. and Azimi, A. (2019). The Effects of Build Parameters and Strain Rate on the Mechanical Properties of FDM 3D-Printed Acrylonitrile Butadiene Styrene. *Open Journal of Organic Polymer Materials* Vol.9:1-27. (United States of America) (Contribution: 30%).
53. Owolabi, G.M., Thom, M., **Ajide, O.O.**, Kumar, N., Azimi, A., Whitworth, H. and Warner, G. (2019). Fatigue Responses of Three AA 2000 Series Aluminum Alloys. *Journal of Materials Science and Chemical Engineering* Vol.7:32-48. (United States of America) (Contribution: 35%).
54. Owolabi, G.M., Thom, M., **Ajide, O.O.**, Kumar, N., Odeshi, A.G. and Warner. G. (2019). Tensile Properties and Fractography of Three AA 2000 Series Aluminum Alloys Used for Aerospace Applications. *Transactions of the Indian Institute of Metals* (Springer) doi.org/10.1007/s12666-019-01731-y:1-8. (Switzerland) (Contribution: 35%).
55. Kumar, N., Owolabi, G.M., Jayaganthan, R., **Ajide, O.O.**, Sonker, S. and Warner, G. (2019). Hot-Compression of Solution-Treated Al-Mg-Si Alloy. *Journal of Materials Engineering and Performance* (Springer).doi.org/10.1007/s11665-019-04459-4:1-14(Switzerland) (Contribution: 30%).

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57. Oloketuyi, I.S., **Ajide, O.O.**, Odesola, I.F., Oyewola, O.M. and Adaramola, M.S. (2019). Examination of Heat Transfer Performance of a Non-imaging Hybrid Compound Parabolic Collector in Low Latitude and Cloudy Region. *Environmental Progress and Sustainable Energy* (Willey). doi.org/10.1002/ep.13339:1-10 (United States of America) (Contribution: 30%).
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60. **Ajide, O.O.**, Ogochukwu, C.D., Akande, I.G., Petinrin, M.O., Ismail, O.S., Oluwole, O.O. and Oyewola, O.M. (2020). Production and Characterisation of Al-Mg-Cr Alloy for Machine Tool Applications. *TEST Engineering & Measurement* Vol. 83:1-9 (United States of America) (Contribution: 50%).
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62. Patchali, T.E., **Ajide, O.O.**, Mathew, O.J., Salau, T.A.O. and Oyewola, O.M. (2020). Examination of Potential Impacts of Future Climate Change on Solar Radiation in Togo, West Africa. *SN Applied Sciences* (Springer) Vol. 2: 1941, <https://doi.org/10.1007/s42452-020-03738-3> (Switzerland) (Contribution: 35%).
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69. Oyewola, O. M., Okediji, A., **Ajide, O. O.** and Adaramola, S.M. (2021). Examination of Reynolds Effect on the Development of Round Jet Flow. *Eureka: Physics and Engineering* Vol. 6, Issue 37: 39-47. (Estonia) (Contribution: 30%).
70. Idusuyi, N., **Ajide, O.O.**, Abu, R., Okewole, O.A. and Ibiyemi, O.O. (2022). Low Cost Electrocoagulation Process for Treatment of Contaminated Water using Electrodes from Recycled Cans. *Materials Today: Proceedings (Elsevier)* Vol. 56:1712-1716. (United Kingdom) (Contribution: 40%).
71. Idusuyi, N., Samuel, O.J., Olugasa, T.T., **Ajide, O.O.**, Abu, R. and Ajayi, O.K. (2022). Corrosion Classification Study of Mild Steel in 3.5% NaCl Using Convolutional Neural Networks. *FUOYE Journal of Engineering and Technology* Vol. 7. Issue 1:61-61. (Nigeria) (Contribution: 30%).
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Carbon/Banana Fibre Hybrid Epoxy Composite. *Materials Chemistry and Physics* (Elsevier) Vol. 285. No. 126084: 1-14. (Netherlands) (Contribution: 40%).

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74. Patchali, T.E., Oyewola, O.M., **Ajide, O.O.**, Mathew, O.J., Salau, T.A.O. and Adaramola, S.M. (2022). Assessment of Global Solar Radiation Estimates Across Different Regions of Togo, West Africa. *Meteorology and Atmospheric Physics* (Springer) Vol. 134. No. 26: 1-15. (Austria) (Contribution: 35%).
75. Oyewola, O.M., Patchali, T.E., **Ajide, O.O.**, Singh, S. and Mathew, O.J. (2022). Global Solar Radiation Predictions in Fiji Islands Based on Empirical Models. *Alexandria Engineering Journal* (Elsevier) Vol. 61: 8555-8571. (Egypt) (Contribution: 35%).
76. Akande, I.G., Fayomi, O.S.I. Oluwole, O.O. and **Ajide, O.O.** (2022). Development of Zn-ZnBr<sub>2</sub> Nanocomposite Coatings for Wear, Corrosion Resistance and Microstructure Enhancement of Carbon Steel in Saline Environment. *Chemical Papers* (Springer) 1-4. <https://doi.org/10.1007/s1.1696-022-02270-5> (Switzerland) (Contribution: 30%).
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78. **Ajide, O.O.**, Onakoya, O.O., Akande, I.G., Saxena, K.K., Mohammed, K.A. and Kumar, N. (2022). Fatigue Life Examination and Crack Propagation Characteristics of Two Ferrous Based Alloy Materials. *International Journal on Interactive Design and Manufacturing* (Springer) Vol.16. Issue 3: 1-7. <https://doi.org/10.1007/s12008-022-00965-3> (France) (Contribution: 50%).
79. Musa, F.A., **Ajide, O.O.**, Idusuyi, N., Adebayo, A.A., Odunaro, B.P., Obasi, O.P., Oluwole, O.O., Oluwasegun, K.M., Kumar, N. and Adebayo, A.S. (2022). Development and Performance Evaluation of a Mini-Potentiostat for Corrosion Experimentations. *Journal of Engineering Research and Reports* Vol. 22, Issue 7: 39-45 (Brazil) (Contribution: 45%).
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81. Oyewola, O.M., Ismail, O.S., Olasinde, M.O. and **Ajide, O.O.** (2022). Mapping of Solar Energy Potential in Fiji Using Artificial Neural Network Approach. *Heliyon* (Elsevier) Vol. 8. (e09961): 1-14. (Netherlands) (Contribution: 35%).
  82. Oyewola, O.M., Aogo, O.A. and **Ajide, O.O.** (2022). Numerical Modelling and Characterization of Hydrofoils for the Hybrid of Savonius and Darrieus Hydrokinetic Turbine. *International Review of Mechanical Engineering* Vol. 16. No. 7: 345-357 (Italy) (Contribution: 35%).
  83. Oyewola, O.M., Ismail, O.S., Olasinde, M.O. and **Ajide, O.O.** (2022). Techno-Economic Assessment and Potential Greenhouse Gas Emission Reduction of Standalone Solar PV and Hybrid Solar PV-Diesel Generator Systems in Fiji Islands. *International Journal on Energy Conversion* Vol. 10. No. 4: 124-132 (Italy) (Contribution: 30%).
  84. Oyewola O.M., Olasinde M.O., **Ajide O.O.** and Ismail O.S. (2022). Examination of Twisted Elliptical Tube Heat Enhancement within the Mixed Convective Zone. *International Review of Mechanical Engineering* Vol. 16. No. 9: 467-482 (Italy) (Contribution: 30%).
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  86. Oyewola, O.M., Ismail, O.S., Olasinde, M.O. and **Ajide, O.O.** (2022). Numerical Simulation of Mixed Convective Flow over Triangularly Arranged Cylinders. *Frontiers in Heat and Mass Transfer* Vol. 18, Issue 30: 1-8. (United States of America) (Contribution: 30%).
  87. Oyewola, O.M., **Ajide, O.O.**, Osunbunmi, I.S and Oyewola, Y.V. (2022). Examination of Students' Academic Performance in Selected Mechanical Engineering Courses Prior-to-and-During COVID-19 Era. *Emerging Science Journal* Vol. 6, Issue 5: 1-14. (Italy) (Contribution: 45%).
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  89. Ogbezode, J., **Ajide, O.O.**, Ofi, O. and Oluwole, O.O. (2022). An Overview of the Reduction-Smelting Process of Iron Oxides in Modern-Day Iron Making Technology. *Research and*

Development in Material Science Vol. 17. Issue 4:1992-1994 (United States of America) (Contribution: 45%).

90. Oyewola, O.M., Akinwonmi, A.S., **Ajide, O.O.** and Salau, T.A.O. (2022). Effect of Swirl on Temperature Decay Function in Straight Blade Liquid Fuel Swirl Burner. *International Journal of Heat and Technology* Vol. 40. Issue 2:527-534. (Italy) (Contribution: 30%).
91. Oyewola, O.M., Singh, P.M., Akinwonmi, A.S., **Ajide, O.O.** and Salau, T.A.O. (2022). Thermal Characterization of Straight and Curve Edge Blade Liquid Fuel Swirl Burner. *Eureka: Physics and Engineering* Vol. 2022. No. 3:11-19. (Estonia) (Contribution: 35%).
92. **Ajide, O.O.**, Anifalaje, O.O., Akande, I.G., Musa, F.A., Fayomi, O.S.I., Oluwole, O.O., Oluwasegun, K.M. and Ajao, O.J. (January, 2023). Effect of Post-Weld Heat-Treatment on Corrosion and Microstructure Properties of Electric Arc Welded Mild Steels. *Portugaliae Electrochimica Acta* Vol. 41: 47-56. (Portugal) (Contribution: 50%).
93. Singh, R.K., Guraja, S.S.S., **Ajide, O.O.**, Owolabi, G.M. and Kumar, N. (January, 2023). Investigation of Initial Metallurgical Factors on the Dynamic Impact Response and Adiabatic Shear Bands Formation on the 6061 Al Alloy. *Materials Science & Engineering A (Elsevier)* Vol. 865. Issue 144636:1-14. (Netherlands) (Contribution: 40%).
94. Oyewo, A.T., Oluwole, O.O., **Ajide, O.O.**, Omoniyi, T.E., Akhter, P., Hamayun, M.H., Kang, B. S., Park, Y. and Hussain, M. (January, 2023). Physico-chemical, Thermal and Microstructural Characterization of Four Common Banana Pseudo-Stem Fiber Cultivars in Nigeria. *Journal of Natural Fibers (Taylor & Francis)* Vol. 20. Issue 1 (2167031):1-16 (United States of America) (Contribution: 35%).
95. **Ajide, O.O.**, Adedokun, O.C., Idusuyi, N., Kumar, N., Aogo, O.A., Ajao, O.J., Adebayo, A.S., Sexena, K.K., Joshi, A. and Prakash, C. (February, 2023). Examining the Mechanical Response and Microstructural Evolution of Heat-Treated Al-5Si-3Cu Alloy for Automotive Applications. *Advances in Materials and Processing Technologies (Taylor & Francis)*. <https://doi.org/10.1080/2374068X.2023.2184602>: 1-13. (United Kingdom) (Contribution: 50%).
96. Oyewo, A.T., Oluwole, O.O., **Ajide, O.O.**, Omoniyi, T.E., Kim, H., Choi, Y. J., Park, Y. and Hussain, M. (February, 2023). Optimization of the Factors Influencing Biodegradation and Thermal Stability of Banana Pseudo Stem Fibers in Nigeria. *Journal of Natural Fibers (Taylor & Francis)* Vol. 20. Issue 1 (2181909):1-15 (United States of America) (Contribution: 40%).
97. Ajala, M.O., **Ajide, O.O.** and Idusuyi, N. (June, 2023). Development and Evaluation of Spirometric In Situ Corrosion Monitoring System. *International Journal of Mechanical and Civil Engineering* Vol. 6, Issue 1: 26: 39 (Nigeria) (Contribution: 45%).

98. **Ajide, O.O.**, Adalakun, T.R., Akande, I.G., Olugasa, T.T. and Kumar, N. (July, 2023). Investigation of Mechanical, Corrosion and Microstructural Behaviour of Heat Treated Cr-modified Al-Mg-Si Alloy. *Journal of Engineering Research and Reports* Vol. 25. Issue 5: 55-70 (United Kingdom) (Contribution: 50%).
99. Ajide, O.O. (July, 2023). Synergistic Influence of Banana Pseudo Stem Fibre and Synthetic Fibre on Mechanical, Thermal Stability and Tribological Properties of Epoxy-Based Composites. *Current Journal of Applied Science and Technology* Vol. 42. Issue 18: 25-41 (United Kingdom) (Contribution: 100%).
100. **Ajide, O.O.**, Amunachugo, P., Aogo, O.A. and Akande, I.G. (July, 2023). Influence of Deposition Time Variation and Mass Concentration of MgO on the Corrosion Response and Microstructure of Zn-MgO-Al<sub>2</sub>O<sub>3</sub> Electroplated Mild Steel. *European Chemical Bulletin* Vol. 12. Issue 10: 8270-8294 (Hungary) (Contribution: 60%).
101. Oyewo, A.T., Oluwole, O.O., **Ajide, O.O.**, Omoniyi, T.E. and Hussain, M. (2023). Banana Pseudo Stem Fiber, Hybrid Composites and Applications: A Review. *Hybrid Advances* 4:100101.

(f) Books, Chapters in Books and Articles already accepted for publication: Nil

(g) Technical Reports and Monographs: Nil

## XI Major Conferences/Workshops Attended in the last 5 years (with Papers Read)

- i. Springer Proceedings, 5th International Conference on Inventive Materials Science and Applications (ICIMA 2022), Advances in Sustainability Science and Technology. Springer, (Singapore), 6-7 May, Coimbatore, India.  
Paper Read: **Ajide, O.O.**, Dada, T.O., Idusuyi, N., Musa, F.A., Aogo, O.A., Adebayo, A.S. and Kumar, N. (2022). Influence of Casting Moulds on the Tensile and Corrosion Characteristics of Palm Kernel Shell Ash Reinforced Al6063-SiC Composite.
- ii. 5-Day Professional and Communication Training/Workshop for Scientists Organised by Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy. 23-27 May, 2022.
- iii. Newborn Essential Solutions and Technologies (NEST360) Faculty Development Workshop. The workshop was hosted by Rice360 Institute for Global Health Technologies, Rice University Houston, Texas, USA. 14-18 March, 2022.
- iv. 31st Engineering Assembly. Theme: Entrenching and Strengthening Engineering Practitioners' Code of Conduct for Resilient Engineering Practice in Nigeria. The assembly programme was hosted by COREN at the International Conference Centre, Abuja, Nigeria. 7-9, August 2023
- v. 30th Engineering Assembly. Theme: Domestication and Development of Codes, Standards and Regulations as a Panacea for Engineering Infrastructures Failures in Nigeria. The assembly programme was hosted by COREN at the International Conference Centre, Abuja, Nigeria. 8-10, August 2022.
- vi. COREN Regional Workshop on Implementation of Outcome-Based Education (OBE) in Engineering Programmes in Nigerian Universities. The workshop was hosted by Council for the Regulation of Engineering in Nigeria, Nigeria. 31 January- 3 February, 2022.
- vii. CPDPGCS Training Workshop/Meeting for Provosts, Deans, Deputy Provost, Deputy Deans/Sub-Deans of postgraduate colleges/schools. The workshop was hosted by Committee of Provosts and Deans of Postgraduate Colleges and Schools (CPDPGCS) of Nigerian Universities for the Regulation of Engineering in Nigeria, Nigeria. 1-3 November, 2021.
- viii. Training Retreat/Workshop for Deans, Directors and Sub-Deans with the Postgraduate College Management Staff hosted by the Postgraduate College, University of Ibadan, Nigeria. 2-5 September, 2021.
- ix. SCIENCE CITE International Conference on Engineering & Technology (*ICET-20*). 27 April, 2020, Gbarnga, Liberia.

Paper Read: **Ajide, O.O.**, Ogochukwu, C.D., Akande, I.G., Petinrin, M.O., Ismail, O.S., Oluwole, O.O., and Oyewola, O.M. (2020). Production and Characterisation of Al-Mg-Cr Alloy for Machine Tool Applications.

- x. Capacity Building Workshop for Early Career and Postgraduate Researchers in Science and Technology, on University of Ibadan Collaborative Academic Resuscitation and Transformation (UI-CART) Project in Science and Technology. The workshop was held at Faculty of Science Lecture Theater, Lakeside, University of Ibadan, May 14- 16, 2019.
- xi. Training Workshop on Solar Photovoltaic Installation Supervision (SPVIS) programme organised by GIZ German Government in collaboration with Nigerian Energy Support Programme (NESP) held at Lagos Energy Academy (LEA), October 15-October 27 & November 5- November 17, 2018.

Signature and Date:

04 September, 2023

**Dr O. O. Ajide**