

FATOBA Olawale Samuel

PROFILE

Technically Oriented, Good Communication & Interpersonal Relationship, Flexible, Disciplined, Resourceful, Ability to Work under minimal Supervision and teach across a broad range of courses in Metallurgical and Materials Engineering

EDUCATION

2013-2016: **Tshwane University of Technology, Pretoria, South Africa. (PhD: Metallurgical and Materials Engineering: Summa Cum Laude).**

2006 -2008 University of Lagos, Lagos, Nigeria
Master of Science (Metallurgical and Materials Engineering, Distinction).

2003 -2005 Federal University of Technology, Akure, Nigeria
Master of Science (Mechanical Engineering).

1995- 2001 Ladoke Akintola University of Technology, Ogbomoso, Nigeria.
Bachelor of Technology Hons. (Mechanical Engineering).

Training: *World Bank/Unilag STEP-B Project: Training on ICT Tools for Teaching at the post-Basic Level, July 2010-2011*

CITS: Computer/Information Technology Literacy Training - UNILAG: 2008.

CSIR: Laser Safety and Precautions-2013.

Tshwane University of Technology: Methodology; Electronic Database and Basic Endnote X6 Training 2013.

Tshwane University of Technology: Fundamentals of TEM, SEM and Sample Preparation For Nano-Characterisation-2014.

SKILLS

Finite Element Method (FEM) Modelling
Design Expert Software
Artificial Neural Network Modelling
SPSS
ANSYS 16.1
Abaqus
Genetic Algorithm
Comsol Multiphysics 5.2b
Response Surface Methodology
Taguchi Optimization Method
Finite Difference Method
Python
C++
Java

Professional Affiliation

COREN: Council for the Regulation of Engineering in Nigeria (R18530)
NSE: Nigeria Society of Engineers (MNSE-21898)
CORRISA: Corrosion Institute of South Africa (2221).
SAIMM: South Africa Institute of Mining and Metallurgy (706230).
NACE International
ECSA: Engineering Council of South Africa (Awaiting)
SACE: South African Council for Educators (FC12437924)

WORK EXPERIENCE

Sept 2016-Till Date: University of Johannesburg, Department of Mechanical Engineering
Science, Johannesburg, South Africa (Assistant Professor)

Feb. 2013- Aug.2016: Tshwane University of Technology, Pretoria (Part-Time Lecturer)
Courses Taught:
(Ferrous Alloy Technology II & III) (FAT 201T and FAT 311T)
(Mineral Processing II: MNP 20YT)
(Quality Control: QCL 211T)

Undergraduate and Postgraduate Supervision (Mentoring)

- Co-Supervised 60 B.Tech students (2013-2016): Tshwane University of Technology, Department of Chemical, Metallurgical and Materials Engineering.
- Co-Supervising 14 Masters and 6 Doctoral Students (2016-Till Date): Tshwane University of Technology, Department of Chemical, Metallurgical and Materials Engineering & University of Johannesburg, Department of Mechanical Engineering.

- Supervising and Co-Supervising 36 B.Tech students (2017-Till Date): Tshwane University of Technology, Department of Chemical, Metallurgical and Materials Engineering, Pretoria.

Oct. 2007 – Jan. 2013 University of Lagos, Akoka, Lagos State, Nigeria.
Metallurgical & Materials Engineering Dept. (Lecturer 1)
Courses:

- *Electrochemistry and Corrosion (MME 311)*
- *Fuel, Furnace and Refractory (MME 511)*
- *Introduction to Crystallography (MME 304)*
- *Applied Mathematics (FMAT 104)*
- *Chemical Metallurgy (MME 401)*
- *Engineering Mathematics (GEG 103 & 104)*
- *Transport Phenomena in Material Processing (MME 505)*
- *Engineering Thermodynamics (MME 301)*
- *Iron and Steel Making (MME 501)*
- *Welding Engineering (MME 512)*

Undergraduate and Postgraduate Supervision:

- Supervised 60 undergraduate students (2007-2013): University of Lagos, Nigeria.
- Supervised 25 undergraduate students (2005-2007): Lagos State Polytechnic, Nigeria.
- Co-supervised 5 Masters Students (2007-2013): University of Lagos, Nigeria.

Other Responsibilities:

Level Examination Officer (Course Adviser)

- *Year 1 Students, 2008/2009 Session*
- *Year 2 Students 2009/2010 Session*
- *Year 3 Students 2010/2011 Session*
- *Year 4 Students 2011/2012 Session*
- *Year 5 Students 2012 Session.*

Admission Officer: *Metallurgical & Materials Engineering Department, 2010*

Secretary: *Curriculum Review Committee, Metallurgical & Materials Engineering Department, 2010.*

Member: *Orientation Committee, Metallurgical & Materials Engineering Department. (2011).*

Member: *Curriculum Development. Tshwane University of Technology, Pretoria (2015-2017)*

Sept. 2005- Sept. 2007: Lagos State Polytechnique, Ikorodu, Lagos, Nigeria.

Post: Lecturer: *Mechanical Engineering Technology.*

- *Engineering Drawing*
- *Engineering Materials*
- *Iron and Steel Technology.*
- *Macchine Design.*
- *Engineering Thermodynamics.*

Sept. 2004-Aug. 2005: National College Gbagada., Gbagada, Lagos. [Principal/Tutor].

- *Engineering Materials*
- *Engineering drawing*
- *Engineering Physics*
- *Automobile Engineering.*
- *CCNA modules*

Jan. 2002-Aug. 2004: Paterson Zochonist (PZ), Aba, Abia state, Nigeria.

Post: Maintenance Engineer.

- *Monitoring of Boiler, Evaporator and production line.*
- *Planning and undertaking scheduled maintenance.*

**October 1999-May 2000: International Petroleum Company (IPCO), Victoria Island, Lagos.
Industrial Trainee:**

- *Monitoring and Controlling of Process parameters*
- *Formation of Data Base for Site Reports.*
- *Monitoring and Evaluation of pipelines welding.*

THESES & PUBLICATIONS

Dissertation/Thesis:

- *(B.Tech. Hons) Design and Construction of Low Cost Deep Freezer Using Local Materials as Insulators-2001*
- *(M.Sc. Mechanical Eng.) Design and Construction of Local Pepper Grinding Machine-2005*
- *(M.Sc. Metallurgical and Materials Eng.) Mechanism Controlling Thermal Conductivity and Coefficient of Thermal Expansion of Copper Metal Matrix Composite- 2008*
- *Ph.D) Determination of Surface Degradation Mechanisms in Laser Alloyed Steel Composite Coatings (2016).*

PRESTIGE AWARDS RECEIVED

- ❖ University of Johannesburg (UJ) 2017 Top publication Award.
- ❖ NRF-Innovation and Scarce Skills Grant 2017.
- ❖ NRF-KIC Travel Grant Award 2016
- ❖ NRF-KIC Travel Grant Award 2017
- ❖ Tshwane University of Technology (TUT) 2016 Top Publication Award
- ❖ Tshwane University of Technology (TUT) 2015 Top Publication Award
- ❖ Tshwane University of Technology (TUT) (Course lecturer with 98% pass rate (2013-2016)
- ❖ Best Graduating M.Sc Student (2008) **Magna Cum Laude (91.2%)**
- ❖ University of Lagos Travel Grant Award 2009
- ❖ Best PhD graduate (2016) **Magna Cum Laude (85%)**
- ❖ Best Presentation Award ICMCF 2016 conference, Toulon, France.
- ❖ University of Lagos, Faculty of Engineering Best Lecturer Award (2011).
- ❖ Best Undergraduate Final Year Project (2001).

REFEREE

Prof. Richard Mbaya

Professor

Department of Chemical, Metallurgical and Materials Engineering,

Tshwane University of Technology,

Pretoria-South Africa.

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Prof. Esther T. Akinlabi

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South Africa.

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Prof. Joshua Okeniyi

Professor

Department of Mechanical Engineering,

Covenant University,

Ota-Nigeria.

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SELECTED PUBLICATION LISTS

1. **Fatoba O.S.**, Esezobor D.E., Akanji O.L., Fatoba A.J., Macregor D., Etubor J. (2014): The study of the antimicrobial properties of selected engineering materials surfaces. **Journal of Minerals and Materials Characterization and Engineering**, 2, 78-87.
2. Bodude M.A., Agbeleye A.A., Honovo H., **Fatoba O.S** (2012). "Corrosion of Oil and Gas pipelines in some selected Oil prospecting environments in Nigeria". **International Journal of Mechanical Computational and Manufacturing Research**, 1(2), 67-78.
3. **O.S. Fatoba**, M.A Bodude, O.L. Akanji, I.O. Adamson I.O., S.C. Agwuncha. (2013). The suitability of seashell, animal bone and Na₂CO₃ as energizers in case carburization of mild steel. **Journal of Basic and Applied Sciences**, 9, 578-586.
4. O.L Akanji., **O.S. Fatoba** and A.S. Aasa (2015). The Influence of Particle Size and Soaking Time on Surface Hardness of Carburized AISI 1018 Steel. **British Journal of Applied Science & Technology**, 7(1), 37-44.
5. **Fatoba, O.S;** Popoola, A.P.I; Aigbodion, V.S (2016). Experimental study of Hardness values and Corrosion Behaviour of Laser Alloyed Zn-Sn-Ti Coatings of UNS G10150 Mild Steel, **Journal of Alloys and Compounds**, 658, 248-254. (Scopus)
6. **Fatoba, O.S;** Popoola, A.P.I; Fedotova, T; Pityana, S.L. (2015) Electrochemical Studies on the Corrosion Behaviour of Laser Alloyed Zn-Sn Coatings on UNS G10150 Steel in 1M HCl Solution. **Silicon**. 7(4), 357-369. (Scopus)
7. **Fatoba, O.S;** Popoola, A.P.I; Fedotova, T. (2015) Characterization and Corrosion behaviour of Zn-Sn Binary Alloy Coatings in 0.5M H₂SO₄ solution. **Journal of Electrochemical Science and Technology**. 6(4), 65-74. (Scopus)
8. Popoola, A.P.I; **Fatoba, O.S;** Nkosi, H.W; Aigbodion, V.S. (2016) Surface Hardening of Aluminium by Laser alloying with Molybdenum and Zirconium powder. **International Journal of Electrochemical Science**, 11, 126-139. (Scopus)
9. **Fatoba, O.S;** Popoola, O; Popoola, A.P.I. (2015) The Effects of Silicon Carbide Reinforcement on the Properties of Cu/SiCp Composites. **Silicon**. 7, 351-356. (Scopus)

10. Popoola A.P.I; **Fatoba O.S**; Popoola O.M; Pityana S.L. (2016) The Influence of Heat Treatment and Process Parameter Optimization on Hardness and Corrosion Properties of Laser Alloyed X12CrNiMo Steel. **Silicon**. **8(4)**, 579-589. (Scopus)
11. Aigbodion, V.S; Popoola, A.P.I; **Fatoba, O.S** (2016). Evaluation of Hardness values and Corrosion Behaviour of Laser Alloyed 20Al-20Sn-60Ti Coatings of UNS G10150 Mild Steel. **International Journal of Advanced Manufacturing Technology**, **86(1-4)**, 291-301 1-11. Doi 10.1007/s00170-015-8111-1. (Scopus).
12. Popoola, A.P.I., **Fatoba, O.S.**, Aigbodion, V.S. And Popoola, O.M. 2017. Tribological Evaluation of Mild Steel with Ternary Alloy of Zn-Al-Sn by Laser Deposition, **International Journal of Advanced Manufacturing Technology**, 89(5-8), 1443-1449. DOI 10.1007/s00170-016-9170-7. (Scopus)
13. Bodude M.A. and **Fatoba O.S** (2015). Investigation on Corrosion of structural steels embedded in Concrete. **Journal of Industrial Research and Technology**, 4(1), 1-8.
14. Esezobor D.E., **Fatoba O.S** (2009): "Mechanism Controlling Thermal Conductivity and Coefficient of Thermal Expansion of Copper Metal Matrix Composite". Proceedings of Material Science and Technology Conference, October 25 -29, 2009, Pittsburgh, Pennsylvania, pp.1795-1807.
15. Adebisi D.I., **Fatoba O.S.**, **Pityana S.L.**, **Popoola A.P.I** (2016): Parameters Optimization, Microstructure and Microhardness of Silicon Carbide Laser Deposited on Titanium Alloy. In Proceedings of International Conference on Surface Modification Technologies, 29th June-1st July, 2016, Milan, Italy, pp.1-6.
16. **Fatoba O.S.**, Popoola A.P.I., Akanji O.L., Bolasodun B.O., Adamson I.O. (2013): "The corrosion behaviour of API 5L X65 Steel in different concentrations of Hydrochloric acid". **International Journal of Engineering Research and Technology**. 2 (10), 1-7.
17. **Fatoba O.S.**, Akanji O.L., Asha D.E (2014). Optimization of Carburized UNS G10170 Steel Process Parameters using Taguchi Approach and Response Surface Model (RSM). **Journal of Minerals and Materials Characterization and Engineering**, 2, 566-578.
18. **Fatoba O.S**; Popoola A.P.I; Farotade G.A; Pityana S.L. (2016). Computational Dynamics of Laser Alloyed Metallic Materials for Improved Corrosion Performance: Computational Dynamics of Laser Alloyed Metallic Materials. DOI:10.4018/978-1-5225-03293.ch008 <http://www.igi-global.com/chapter/computational-dynamics-of-laser-alloyed-metallic-materials-for-improved-corrosion-performance/149842>
19. **Fatoba O.S**; Popoola A.P.I; Pityana S.L; Adesina O.S. (2016). Computational Dynamics of Anti-Corrosion Performance of Laser Alloyed Metallic Materials, Fiber Laser, Dr. Mukul Paul (Ed.), InTech, DOI: 10.5772/62334. Available from: <http://www.intechopen.com/books/fiber-laser/computational-dynamics-of-anti-corrosion-performance-of-laser-alloyed-metallic-materials>.
20. Adesina O.S; Popoola A.P.I; **Fatoba O.S.** (2016). Laser Surface Modification-A focus on the Wear Degradation of Titanium Alloy, Fiber Laser, Dr. Mukul Paul

(Ed.), InTech, DOI: 10.5772/61737. Available from:
<http://www.intechopen.com/books/fiber-laser/>

21. Popoola A.P.I; Farotade G.A; **Fatoba O.S;** Popoola O.M. (2016). Laser Engineering Net Shaping Method in the Area of Development of Functionally Graded Materials (FGMs) for Aero Engine Application-A review, Fiber Laser, Dr. Mukul Paul (Ed.), InTech, DOI: 10.5772/61711. Available from:
<http://www.intechopen.com/books/fiber-laser/>
22. **O.S. Fatoba;** E.T. Akinlabi (2017). The Effects of Rapid Cooling on the Improved Properties of Laser Deposited Metallic Coatings, Dr. Mukul Paul (Ed.) Nova Science Publishers Book Chapter.
https://www.novapublishers.com/catalog/product_info.php?products_id=62603. (Scopus)
23. **O.S. Fatoba;** M.E. Makhatha (2017). Improved Corrosion, Mechanical and Tribological Properties of Ti-6Al-4V Alloy by Direct Laser Deposition, Dr. Mukul Paul (Ed.) Nova Science Publishers Book Chapter.
https://www.novapublishers.com/catalog/product_info.php?products_id=62603. (Scopus)
24. **O.S. Fatoba;** E.T. Akinlabi; M.E. Makhatha (2017). The effect of rapid cooling on the improved surface properties of aluminium based coatings by direct laser deposition, Fiber Laser, Dr. Subbarayan Sivasankaran (Ed.), InTech, <http://dx.doi.org/10.5772/intechopen.71698>
25. **O.S. Fatoba;** E.T. Akinlabi; M.E. Makhatha (2017). Influence of rapid solidification on the thermo-physical and fatigue properties of laser additive manufactured Ti-6Al-4V alloy, Fiber Laser, Dr. Subbarayan Sivasankaran (Ed.), InTech. <http://dx.doi.org/10.5772/intechopen.71697>
26. **Fatoba, O.S;** Popoola, A.P.I. Aigbodion, V.S. (2018) Laser Alloying of Al-Sn Binary Alloy onto Mild Steel: InSitu Formation. Hardness and Anti-Corrosion Properties. **Lasers in Engineering**, 39(3-6), 292-312. (Scopus).
27. **O.S. Fatoba;** E.T. Akinlabi; M.E. Makhatha (2017). Effect of process parameters on the microstructure, hardness and wear resistance properties of Zn-Sn-Ti coatings on AISI 1015 steel: laser alloying technique. **International Journal of Surface Science and Engineering**. 11 (6), 489-511. (Scopus)
28. O.Sanni; API Popoola; OSI Fayomi; **O.S Fatoba** (2017). Silicone oil as corrosion inhibitor for aluminium alloy in saline medium. **International Journal of Microstructure and Materials Properties**. 12 (1-2), 116-125. (Scopus)
29. **O.S Fatoba,** O.S Adesina, G.A Farotade, A.A Adediran (2017). Modelling and Optimization of Laser Alloyed AISI 422 Stainless Steel Using Taguchi Approach and Response Surface Model (RSM). **Current Journal of Applied Science and Technology**, 23(3), 1-16.
30. **O.S. Fatoba;** A.P.I Popoola; V.S. Aigbodion (2018). Electrochemical Studies and Surface Analysis of Laser Deposited Zn-Al-Sn Coatings on AISI 1015 Steel. **International Journal of Surface Science and Engineering**. 12 (1), 40-59. (Scopus). DOI: [10.1504/IJSURFSE.2017.10009146](https://doi.org/10.1504/IJSURFSE.2017.10009146)
31. Makhatha, M.E., **Fatoba, O.S.** & Akinlabi, E.T. (2018). Effects of rapid solidification on the microstructure and surface analyses of laser-deposited

Al-Sn coatings on AISI 1015 steel.

787. <https://doi.org/10.1007/s00170-017-0876-y>. (Scopus)

32. **Fatoba O.S.**, Popoola A.P.I., Aigbodion V.S., Rambau T.G. (2018). Influence of Laser Parameters on the Hardness Studies and Surface Analyses of Laser Alloyed Stellite-6 Coatings on AA 1200 Alloy. **International Journal of Microstructure and Materials Properties. (In press) (Scopus)**
33. Akinlabi O.S., **Fatoba O.S.**, Akinlabi E.T. (2018): Effect of bottoming on material property during sheet forming process through finite element method. IOP Conference Series: Materials Science and Engineering, 328, pp. 1-8. doi:10.1088/1757-899X/328/1/012013
34. Akinlabi S.A., **Fatoba O.S.**, Akinlabi E.T. (2018): Investigating Resulting Residual Stresses during Mechanical Forming Process. IOP Conference Series: Materials Science and Engineering, 328, pp. 1-7. doi:10.1088/1757-899X/328/1/012012
35. **Fatoba O.S.**, Akinlabi S.A; Akinlabi E.T. (2018): Electrochemical Behaviour Study of Laser Metal Deposited Ti-Sn Coatings on ASTM A29 steel in Saline Environment. *Material Science and Engineering Technology*, 49(2), 1-8.
36. **Fatoba O.S.**, Akinlabi S.A; Akinlabi E.T. (2018): The Effects of Sn Addition on the Microstructure and Surface Properties of Laser Deposited Al-Si-Sn Coatings on ASTM A29 Steel. IOP Conference Series: Materials Science and Engineering, 328, pp. 1-11. doi:10.1088/1757-899X/328/1/012016
37. **Fatoba O.S.**, Akinlabi S.A; Akinlabi E.T. (2018). Effects of Rapid Solidification and Fe content on the Microstructure, Surface Properties of Laser Deposited Al-Fe-Si-Mn Coatings. *International Journal of Mechanical and Production Engineering*, 6(2), pp. 17-22.
38. **Fatoba O.S.**, Akinlabi S.A; Akinlabi E.T. (2018). Effect of Fe-Intermetallics on the Hardness and Electrochemical Behaviour of Laser Deposited Sn-Zn Coatings on SAE-AISI 1010 steel. *International Journal of Mechanical and Production Engineering*, 6(2), pp. 10-16
39. Akinlabi S.A; M.P. Mashinini; **Fatoba O.S.**; Akinlabi E.T. (2018). Effect of Grain Size Deformation on Laser Processed Sheet Steel Under High Temperature. *International Journal of Mechanical and Production Engineering*, 6(2), pp. 23-28.
40. Akinlabi S.A; M.P. Mashinini; **Fatoba O.S.**; Akinlabi E.T. (2018). Effect of Processed Parameters on Developed Residual Stresses in a Laser Processed Steel Component. *International Journal of Mechanical and Production Engineering*, 6(2), pp. 5-9.
41. Akinlabi, S.A., **Fatoba O.S.**; Akinlabi, E.T. (2018). Investigating stresses developed during mechanical forming of steel through Finite Element Analysis. Presented at the International Conference on Mechanical Stress Evaluation by Neutron and Synchrotron (MECASSENS 2017, 19th -22nd September 2017, Kruger Park, South Africa. *Materials Research Proceedings*. 4, 29-34. doi: <http://dx.doi.org/10.21741/9781945291678-5>

42. **Fatoba O.S;** Akinlabi, S.A., Akinlabi, E.T. (2018). Numerical Modelling and Performance Effects of Laser Deposited Ti-Al-Sn Coating on ASTM A29 Steel. Presented at the International Conference on Mechanical Stress Evaluation by Neutron and Synchrotron (MECASSENS 2017, 19th -22nd September 2017, Kruger Park, South Africa. Materials Research Proceedings. 4, 135-140. doi: <http://dx.doi.org/10.21741/9781945291678-21>.
43. Gharehbaghi, R., **Fatoba, O.S.,** Akinlabi, E.T. (2018). Experimental Investigation of Laser Metal Deposited Icosahedral Al-Cu-Fe Coatings on Grade Five Titanium Alloy. Proceedings at the 2018 IEEE 9th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2018), Cape town, South Africa, pp. 31-36. doi: 10.1109/ICMIMT.2018.8340416.
44. Gharehbaghi, R., **Fatoba, O.S.,** Akinlabi, E.T. (2018). Influence of Scanning Speed on the Microstructure of Deposited Al-Cu-Fe Coatings on a Titanium Alloy Substrate by Laser Metal Deposition Process. Proceedings at the 2018 IEEE 9th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2018), Cape town, South Africa, pp. 44-49. doi: 10.1109/ICMIMT.2018.8340418.
45. **Fatoba, O.S.,** Akinlabi, E.T. Akinlabi, S.A. (2018). Effects of Fe addition and Process Parameters on the Wear and Corrosion Properties of Laser Deposited Al-Cu-Fe Coatings Ti-6Al-4V Alloy. Proceedings at the 2018 IEEE 9th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2018), Cape town, South Africa, 74-79. doi: 10.1109/ICMIMT.2018.8340424.
46. **Fatoba, O.S.,** Akinlabi, E.T., Akinlabi, S.A. (2018). Numerical Investigation of Laser Deposited Al-Based Coatings on Ti-6Al-4V Alloy. Proceedings at the 2018 IEEE 9th International Conference on Mechanical and Intelligent Manufacturing Technologies (ICMIMT 2018), Cape town, South Africa, 85-90. doi: 10.1109/ICMIMT.2018.8340426.
47. **Fatoba O.S;** Akinlabi, E.T., Akinlabi, S.A. (2018). Laser Metal Deposition Influence on the Mechanical Properties of Steels and Stainless-Steel Composites: A Review. Presented at the ICMPC 8th International Conference on Materials Processing and Characterization (ICMPC 2018), 16th -18th March 2018, Hyderabad, India. **(Accepted)**
48. **Fatoba O.S;** Akinlabi, E.T., Makhatha, M.E. (2018). Effects of Cooling Rate and Silicon Content on Microstructure and Mechanical Properties of Laser Deposited Ti-6Al-4V Alloy. Presented at the ICMPC 8th International Conference on Materials Processing and Characterization (ICMPC 2018), 16th -18th March 2018, Hyderabad, India. **(Accepted)**.
49. **Fatoba O.S;** Akinlabi, S.A., Akinlabi, E.T., Erinosh, M.F. (2018). Influence of Process Parameters on the Mechanical Properties of Laser Deposited Ti-6Al-4V Alloy. Taguchi and Response Surface Model Approach. Presented at the ICMPC 8th International Conference on Materials Processing and Characterization (ICMPC 2018), 16th -18th March 2018, Hyderabad, India. **(Accepted)**.

50. **Fatoba O.S.**; Akinlabi, E.T., Akinlabi, S.A. (2018). Modeling the Anti-Corrosion Performance of Laser Deposited Cu-Zn-Ni Coatings on Ti-6Al-4V alloy. Presented at the International Conference on Composite Materials: Manufacturing, Experimental Techniques, Modelling and Simulation (ICCMEMMS 2018), 1st-3rd March 2018, Jalandhar-Delhi, India. **(Accepted)**.
51. **Fatoba O.S.**; Akinlabi, S.A., Akinlabi, E.T., Makhatha, M.E. (2018). Modeling, Microstructure and Corrosion Resistance of Laser Cladded Al-Si-Fe on A29 1010 Steel. Presented at the International Conference on Composite Materials: Manufacturing, Experimental Techniques, Modelling and Simulation (ICCMEMMS 2018), 1st-3rd March 2018, Jalandhar-Delhi, India. **(Accepted)**
52. **Fatoba O.S.**, Popoola A.P.I., Pityana S.L. (2018). Numerical Simulation of Heat Transfer and Fluid Flow in Coaxial Laser Alloying Process for Direct Metal Deposition. **Journal of Heat Transfer. (Accepted)**.
53. **Fatoba O.S.**, Popoola A.P.I., Pityana S.L. (2018). Modelling the Geometry of a moving Laser Melt Pool and Deposition Track through Energy and Mass Balances. *Optics & Laser Technology. (Accepted)*.
54. **Fatoba O.S.**, Popoola A.P.I., Pityana S.L. (2018). 3D Finite Element Modelling of Laser Alloying by Powder Injection: Effects of Laser Power and Scan Speed. **Journal of Applied Physics. (Accepted)**.

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