

List of Publications

- 1) Thirukumaran, M., **Jappes, J. W.**, Siva, I., Ramanathan, R., & Brintha, N. C. On the interfacial adhesion of fiber metal laminates using surface modified aluminum 7475 alloy for aviation industries—a study. *Journal of Adhesion Science and Technology*, Vol. 34 No. 6, pp635-650, 2020
- 2) Brintha, N. C., Benedict, S., & **Jappes, J. W.** Resource allocation in cloud manufacturing using bat algorithm. *International Journal of Manufacturing Technology and Management*, Vol. 34 No. 3, pp296-310, 2020
- 3) Ajithram, A., **Jappes, J. W.**, Kumar, T. S. M., Rajini, N., Rajulu, A. V., Rangappa, S. M., & Siengchin, S. Water Hyacinth for Biocomposites—An Overview. In *Biofibers and Biopolymers for Biocomposites*. pp. 171-179, 2020. Springer, Cham.
- 4) B A Raj, **JTW Jappes**, MA Khan, V Dillibabu, NC Brintha Direct metal laser sintered (DMLS) process to develop Inconel 718 alloy for turbine engine components, *Optik* Vol. 202, 2020, 163735
- 5) T Premkumar, I Siva, Patric D Neis, Sandro C Amico, Ney F Ferreira, **JT WinowlinJappes**, Experimental design and theoretical analysis on the various tribological responses of curauá/polyester composites, *Materials Research Express*, Vol. 6, No. 12, 2019
- 6) M Thirukumaran, **JT WinowlinJappes**, I Siva, Rajajeyaganthan Ramanathan, NC Brintha, On the interfacial adhesion of fiber metal laminates using surface modified aluminum 7475 alloy for aviation industries—a study, *Journal of Adhesion Science and Technology*, 2019, pp 1-6
- 7) B Anush Raj, **JT WinowlinJappes**, M Adam Khan, V Dillibabu, NC Brintha, Studies on heat treatment and electrochemical behaviour of 3D printed DMLS processed nickel-based superalloy, *Applied Physics A*, 2019, Vol. 125, Issue 10.
- 8) Brintha NC and **WinowlinJappes JT**. ‘Analysis of programming tools and techniques in 3D printing technology’, *Key Engineering Materials*. (Accepted for publication), 2019
- 9) M Thirukumaran, **JT WinowlinJappes**, I Siva, , Sandro C Amico, S Anand Kumar, Sandro C Amico. Indentation Creep Response and Rupture Mechanisms in GLARE: Experimental and Statistical Evaluation, *Journal of Testing and Evaluation*, Vol. 49 No.3, 2019
- 10) Alan, Sandra, I Siva, **JT WinowlinJappes** and Sandro Campos Amico. Effect of silane treatment on the Curauafibre/polyester interface, *Plastics, Rubber and Composites*, 2019
- 11) VN Anbazhagan, R Edwin Raj, **JT Jappes**. Development and characterization of novel fiber-metal-laminate (FML) using aluminium sheet and ceramic mat, *Materials Express*, Vol. 9 No. 4, pp358-364, 2019
- 12) M. Uthayakumar, ST. Kumaran, SS. Kumar, **JT. WinowlinJappes**, TPD. Rajan. A study on the machining of Al–SiC functionally graded metal matrix composite using die– sinking EDM, *Particulate Science and Technology*, Vol. 37 No. 1, pp 103-109, 2017
- 13) D Chellaganesh, MA Khan, **JTW Jappes**. High temperature oxidation behavior of thermally sprayed alumina—titania coatings on nickel based super alloys, *Materials Research Express* (Accepted), 2019
- 14) Brintha, NC, Shajulin Benedict and **WinowlinJappes, JT**. Resource allocation in cloud manufacturing using bat algorithm. *International Journal of Manufacturing Technology and Management (IJMTM)*, Inderscience publishers. (Accepted), 2019

- 15) M Thirukumaran, I Siva, **JTW Jappes**, V Manikandan. Forming and drilling of fiber metal laminates—A review, *Journal of Reinforced Plastics and Composites*, Vol. 37 No. 14, pp981- 990, 2018
- 16) M. Thirukumaran, **JT. Winowlin Jappes**, I. Siva, Sandro C Amico, J. PaluoDavim, “Investigation of Margin effect to minimize delamination during drilling of Differently Stacked GFRP-Aluminum Fiber Metal Laminates (3/2 GLARE)”, *Journal of Manufacturing Technology Research*, Vol. 10 No. 1/2, pp17-27
- 17) C Bennet, N Rajini, **JT Jappes**, S Siengchin (2018), Effect of Curing Temperature on Mechanical Properties of SansevieriaCylindrica Polyester Composites, *Advanced Science, Engineering and Medicine* Vol. 10 No. 3, pp416-419.
- 18) Chellaganesh D, Adam Khan M, **WinowlinJappes JT**, Sathiyarayanan S (2018), Cyclic oxidation and hot corrosion behavior of nickel – iron based superalloy, *High Temperature Material and Processes*, Vol. 37 No.2, pp173-180
- 19) SJ Leon, **JTW Jappes**, ME Sahayaraj. Corrosion Performance of Annealed Electroless Ni-B-ZrSiO 4 Coatings on Mild Steel, *Journal of Advanced Research in Dynamical and Control Systems*, 2018
- 20) K. Senthilkumar, I. Siva, N. Rajini, **J.T. WinowlinJappes**, SuchartSiengchin. Mechanical characteristics of tri-layer eco-friendly polymer composites for interior parts of aerospace application, *Sustainable Composites for Aerospace Applications*, 2018
- 21) Kalusuraman G, Siva I, **Winowlin JT**, Amico SC, Gao XZ. Fiber Loading Effects on Dynamic Mechanical Properties of Compression Molded Luffa Fiber Polyester Composites, *International Journal of Computer Aided Engineering and Technology*, Vol. 10 No.1-2, pp157-165, 2018
- 22) K Mayandi, N Rajini, **JT Jappes**, S Siengchin, MS Abilash (2018), Effect of Chemical Treatment on Tensile and Flexural Performance of CyperusPangoreiFibre Reinforced Polyester Composites, *Advanced Science, Engineering and Medicine* Vol. 10 No. 3, pp476-479
- 23) D Chellaganesh, M Adam Khan, **JT WinowlinJappes**. Hot corrosion behaviour of nickel–iron-based superalloy in gas turbine application, *International Journal of Ambient Energy*, pp 1-5
- 24) D Chellaganesh, M Adam Khan, A Mohamed Ashif, T RagulSelvan, S Nachiappan and **J T WinowlinJappes**. Hybrid Composite Material and Solid Particle Erosion Studies, *IOP Conf. Series: Materials Science and Engineering*. 2018
- 25) G. Poomarimuthukumar, I. Siva, M. Thirukumaran, **JT. WinowlinJappes**. A short review on Fretting wear behaviour of Al7075, *Int J Computer Aided Engineering and Technology*, Vol. 10 No.6, 2018
- 26) S. Milan, T. Christopher, **J.T. WinowlinJappes**. Investigation on Mechanical Properties and Chemical Treatment of Litterous Fiber Reinforced Polymer Composites, *International Journal of Computer Aided Engineering and Technology*, Vol. 10 No.1-2, pp102-110, 2018
- 27) M. Uthayakumar, ST. Kumaran, SS. Kumar, **JT. WinowlinJappes**, TPD. Rajan . A study on the machining of Al–SiC functionally graded metal matrix composite using die– sinking EDM, *Particulate Science and Technology*, Vol. 37 No. 1, pp 103-109,2017
- 28) S. Milan, T. Christopher, **J.T. WinowlinJappes**. Investigation on Mechanical Properties and Chemical Treatment of Litterous Fiber Reinforced Polymer Composites, *Int J Computer Aided Engineering and Technology*, Vol. 10 No. 1-2, pp 102-110, 2018
- 29) D Chellaganesh, M Adam Khan, A Mohamed Ashif, T RagulSelvan, S Nachiappan and **J T WinowlinJappes**. Hybrid Composite Material and Solid Particle Erosion Studies, *IOP Conf. Series: Materials Science and Engineering* Vol. 346, 2018
- 30) G. Poomarimuthukumar, I. Siva, M. Thirukumaran, **JT. WinowlinJappes**. A short review on Fretting wear behaviour of Al7075, *Int J Computer Aided Engineering and Technology*, Vol. 10 No.6, pp 698-702, 2018

- 31) M. Adam Khan, N. Ram Prasad, S. Navaneetha Krishnan, S. Karthic Raja, **JT. WinowlinJappes**, M. Duraiselvam. Laser treated austenitic steel and nickel alloy for human implants, *Materials and Manufacturing Processes*, Vol 32, pp 1635-1641, 2017
- 32) N. Rajini, **JT. WinowlinJappes**, I. Siva, A. VaradaRajulu, S. Rajakarunakaran. Fire and thermal resistance properties of chemically treated ligno-cellulosic coconut fabric– reinforced polymer eco-nanocomposites, *J. of Industrial Textiles*, Vol. 47 No. 1, pp 104-124, 2017
- 33) NC. Brintha, S. Benedict, **JTW. Jappes**. A Bio-Inspired Hybrid Computation for Managing and Scheduling Virtual Resources using Cloud Concepts, *Applied Mathematics & Information Sciences*, Vol. 11 No. 2, pp 565-572, 2017
- 34) T. SenthilMuthu Kumar, N. Rajini, HuafengTian, A. VaradaRajulu, **JT. WinowlinJappes**, SuchartSiengchin. Development and analysis of biodegradable poly (propylene carbonate)/tamarind nut powder composite films, *International Journal of Polymer Analysis and Characterization*, Vol. 22 No. 5, pp 415-423, 2017
- 35) T. SenthilMuthu Kumar, N. Rajini, M. Jawaaid, A. VaradaRajulu, **JT. WinowlinJappes**. Preparation and Properties of Cellulose/Tamarind Nut Powder Green Composites: (Green composite using agricultural waste reinforcement), *Journal of Natural Fibers*, 2017
- 36) S. Karthikeyan, N. Rajini, M. Jawaaid, **JT. WinowlinJappes**, MTH. Thariq, S. Siengchin, Jacob Sukumaran . A review on tribological properties of natural fiber based sustainable hybrid composite, *Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology*, 2017
- 37) G. Kalusuraman, I. Siva, **J.T. WinowlinJappes**, S.C. Amico. Effect of starch treatment and hybridization on the mechanical properties of natural fiber composites, *Int J Computer Aided Engineering and Technology*, Vol. 9 No. 2, pp 261-269, 2017
- 38) S. Kalirasu, N. Rajini, S. Rajesh, **JTW. Jappes**, K. Karuppasamy, AWJM Performance of jute/polyester composite using MOORA and analytical models, *Materials and Manufacturing Processes*, pp 1-10, 2017
- 39) M. Edwin Sahayaraj, **JT. WinowlinJappes**, I. Siva, N. Rajini. Investigation On Corrosion Performance Of Multi-Layer Ni-P/Tio2 Composite Coating On Steel, *Science and Engineering of Composite Materials*, Vol. 23 No. 30, pp 309-314, 2016
- 40) K. Mayandi, N. Rajini, P. Pitchipoo, **JT. WinowlinJappes**, AV. Rajulu. Extraction and characterization of new natural lignocellulosic fiber Cyperuspangorei, *International Journal of Polymer Analysis and Characterization*, Vol. 21 No. 2, pp 175-183, 2016
- 41) KS. Kumar, I. Siva, N. Rajini, **JT. WinowlinJappes**, S.C. Amico. Layering pattern effects on vibrational behavior of coconut sheath/banana fiber hybrid composites, *Materials & Design*, Vol. 90, pp 795-803, 2016
- 42) N. Rajini, **JT. WinowlinJappes**, S. Karthikeyan, AV. Rajulu. Effect of Nanoclay on the Dielectric, Transport, Thermal and Fire Properties of Coconut Sheath/MMT Clay Polyester Hybrid Composites, *Nanoclay Reinforced Polymer Composites*, pp 127-150, 2016
- 43) K. Mayandi, N. Rajini, P. Pitchipoo, **JT. WinowlinJappes**, A. VaradaRajulu. Properties of untreated and chemically treated Cissusquadrangularis natural fibers and their composites with polyester as the matrix, *Polymer composites*, 2016
- 44) K. Senthilkumar, I. Siva, **JT. WinowlinJappes**, SC. Amico, F. Cardona, MTH. Sultan Effect of inter-laminar fibre orientation on the tensile properties of sisal fibre reinforced polyester composites, *Materials Science and Engineering*, 2016
- 45) S. Karthikeyan, N. Rajini, DB. Patrick, S. Saravanasankar, **JT. WinowlinJappes**, Jacob Sukumaran. Eco-friendly mono-layered PTFE blended polymer composites for dry sliding tribo – systems, *Tribology International*, Vol. 102, pp 569–579, 2016

- 46) K. Mayandi, N. Rajini, P. Pitchipoo, **JT. WinowlinJappes**, I. Siva. Mechanical performance of Cissusquadrangularis/polyester composite, Materials Today Communications, Vol. 4, pp 222-232, 2015
- 47) K. VinothBabu, M. Uthayakumar, **JT. WinowlinJappes**, TPD.Rajan. Optimization of Drilling Process on Al-SiC Composite using Grey Relation Analysis, International Journal of Manufacturing, Materials, and Mechanical Engineering, 2015
- 48) N.C.Brintha, Shajulin Benedict and **J.T.WinowlinJappes** . An Approach for Management and Scheduling of Resources in Printing and Packaging Enterprise using Cloud Manufacturing, International Journal of Printing, International Journal of Packaging & Allied Sciences, Vol.4, No. 5, pp.2983-2993, 2016
- 49) S. Kalirasu, N. Rajini, **JT. WinowlinJappes**, M. Uthayakumar, S. Rajesh. Mechanical and machining performance of glass and coconut sheath fibre polyester composites using AWJM, Journal of Reinforced Plastics and Composites, Vol 34 No.7, pp 564-580, 2015
- 50) K. Mayandi, N. Rajini, P. Pitchipoo, VS. Sreenivasan, **JT. WinowlinJappes**, A. Alavudeen. A comparative study on characterisations of Cissusquadrangularis and Phoenix reclinata natural fibres, Journal of Reinforced Plastics and Composites, Vol. 34 No. 4, pp 269-280, 2015
- 51) K. Senthilkumar, I. Siva, **JT. WinowlinJappes**, M. Vikneshwararaj, P. Karthick, P. Devakumar Influence of orientation on tensile and flexural properties of sisal fiber polyester composite, Journal of Chemical and Pharmaceutical Sciences, Vol. 7, pp 172-174, 2015
- 52) C. Bennet, N. Rajini, **JT. WinowlinJappes**, I. Siva, VS. Sreenivasan, SC. Amico. Effect of the stacking sequence on vibrational behavior of Sansevieriacylindrica/coconut sheath polyester hybrid composites, Journal of Reinforced Plastics and Composites, Vol. 34 No. 4, pp 293-306, 2015
- 53) S. Milan, T. Christopher, **JT. WinowlinJappes**, I. Siva. Investigation on Mechanical Properties and Chemical Treatment of Sea Grass Fiber Reinforced Polymer Composites, Journal of Chemical and Pharmaceutical Sciences, Vol 974, 2115, 2015
- 54) G. Kalusuraman, I. Siva, **JT. WinowlinJappes**, S. Anand Kumar, Effects of fiber surface modification on the friction coefficient of luffa fiber/polyester composites under dry sliding condition, Journal of Polymer Engineering, 2015
- 55) C. Bennet, N. Rajini, I. Siva, **JT. WinowlinJappes**, S.C. Amico. Effect of Curing Temperature and Layering Pattern on Performance Studies : A Novel Hybrid Composite, Journal of Polymer Engineering, Vol. 35 No.2, pp 127-134, 2015
- 56) C. Bennet, I. Siva, **JT. WinowlinJappes**, N. Rajini. Effect of Process Parameters in Chemical Modifications on Mechanical Properties of SansevieriaCylindrica/Polyester Composite Using Taguchi Technique, International Journal of Computer Aided Engineering and Technology, Vol. 7 No. 1, pp 15-28, 2015
- 57) Brintha N.C, Shajulin Benedict, **WinowlinJappes J.T.** Machining Parameter Optimization of Al/SiCp Composite Materials Using Artificial Neural Networks, International Journal of Computer Aided Engineering and Technology, Vol. 7 No.1, pp 2-14, 2015
- 58) N.C.Brintha, Shajulin Benedict and **J.T.WinowlinJappes**. An Improved Cloud Based Solution for Cloud Manufacturing, International Journal of Chemical and pharmaceutical Sciences, Vol 2, pp 289-292, 2015