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List of Publications for the last 5 years:

1. Ajithram, A., Jappes, J. W., & Brintha, N. C. (2020). Investigation on utilization of water hyacinth aquatic plants towards various bio products–Survey. *Materials Today: Proceedings*.
2. Brintha, N. C., Jappes, J. W., Christo, N. J., & Khan, M. A. (2020). Adopting cloud computing for service integration–Wind mill blade manufacturing SMEs in India. *Materials Today: Proceedings*.
3. Chellaganesh, D., Khan, M. A., & Jappes, J. W. (2020). Thermal barrier coatings for high temperature applications–A short review. *Materials Today: Proceedings*.
4. Ajithram, A., Jappes, J. W., & Brintha, N. C. (2020). Water hyacinth (*Eichhornia crassipes*) natural composite extraction methods and properties–A review. *Materials Today: Proceedings*.
5. Bennet, C., Mayandi, K., Jappes, J. W., Rajini, N., & Siva, I. (2020). Tribological studies of surface-modified sansevieria cylindrica fiber-reinforced polyester composites. *Tribology of Polymer Composites: Characterization, Properties, and Applications*, 213.
6. Jappes, J. W., Brintha, N. C., Khan, M. A., & Christo, N. J. (2020). Effect of modified method of coating on particle incorporation and wear resistance of nickel–phosphorus–diamond composite coatings. *Materials Today: Proceedings*.
7. Brintha, N. C., Jappes, J. W., & Vignesh, M. S. (2020, August). Managing & Detecting Fishy Nodes in MANET using Cloud Concepts. In *2020 Third International Conference on Smart Systems and Inventive Technology (ICSSIT)* (pp. 166-169). IEEE.
8. Chellaganesh, D., Khan, M. A., & Jappes, J. W. (2020). Hot corrosion behaviour of nickel–iron-based superalloy in gas turbine application. *International Journal of Ambient Energy*, 41(8), 901-905.

9. Thirukumaran, M., Jappes, J. W., Siva, I., Ramanathan, R., & Brintha, N. C. (2020). 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*, 34(6), 635-650.
10. Raj, B. A., Jappes, J. W., Khan, M. A., Dillibabu, V., & Brintha, N. C. (2020). Direct metal laser sintered (DMLS) process to develop Inconel 718 alloy for turbine engine components. *Optik*, 202, 163735.
11. Durai, C., Khan, M. A., Jappes, J. W., Ghazaly, N. M., & Mashinini, P. M. (2020). Solid particle erosion studies on thermally deposited alumina–titania coatings over aluminium alloy. *International Journal of Minerals, Metallurgy and Materials*.
12. Brintha, N. C., Benedict, S., & Jappes, J. W. (2020). Resource allocation in cloud manufacturing using bat algorithm. *International Journal of Manufacturing Technology and Management*, 34(3), 296-310.
13. Ajithram, A., Jappes, J. W., Kumar, T. S. M., Rajini, N., Rajulu, A. V., Rangappa, S. M., & Siengchin, S. (2020). Water Hyacinth for Biocomposites—An Overview. In *Biofibers and Biopolymers for Biocomposites* (pp. 171-179). Springer, Cham.
14. Khan, M. A., Chellaganesh, D., Uthayakumar, M., Jappes, J. W., & Duraiselvam, M. (2020). Electrochemical Behaviour and Surface Studies on Austenitic Stainless Steel and Nickel-Based Superalloy Dissimilar Weld Joints. In *Materials Forming, Machining and Post Processing* (pp. 251-266). Springer, Cham.
15. Premkumar, T., Siva, I., Neis, P. D., Amico, S. C., Ferreira, N. F., & Jappes, J. W. (2019). Experimental design and theoretical analysis on the various tribological responses of curauá/polyester composites. *Materials Research Express*, 6(12), 125337.
16. Raj, B. A., Jappes, J. W., Khan, M. A., Dillibabu, V., & Brintha, N. C. (2019). Studies on heat treatment and electrochemical behaviour of 3D printed DMLS processed nickel-based superalloy. *Applied Physics A*, 125(10), 722.
17. Thirukumaran, M., Jappes, J. W., Siva, I., Kumar, S. A., & Amico, S. C. (2019). Indentation Creep Response and Rupture Mechanisms in GLARE: Experimental and Statistical Evaluation. *Journal of Testing and Evaluation*, 49(3).
18. Anbazhagan, V. N., Raj, R. E., & Jappes, J. T. (2019). Development and characterization of novel fiber-metal-laminate (FML) using aluminium sheet and ceramic mat. *Materials Express*, 9(4), 358-364.

19. Chellaganesh, D., Khan, M. A., & Jappes, J. W. (2019). High temperature oxidation behavior of thermally sprayed alumina—titania coatings on nickel based superalloys. *Materials Research Express*, 6(8), 086521.
20. Brum da Silva, A. M., Luz, S. M. D., Siva, I., Winowlin Jappes, J. T., & Amico, S. C. (2019). Effect of silane treatment on the Curaua fibre/polyester interface. *Plastics, Rubber and Composites*, 48(4), 160-167.
21. Uthayakumar, M., Babu, K. V., Kumaran, S. T., Kumar, S. S., Jappes, J. W., & Rajan, T. P. D. (2019). Study on the machining of Al–SiC functionally graded metal matrix composite using die-sinking EDM. *Particulate Science and Technology*, 37(1), 103-109.
22. da Silva, A. M. B., da Luz, S. M., Siva, I., Jappes, J. T. W., & Amico, S. C. (2019). An Overview on Plant Fiber Technology: An Interdisciplinary Approach. In *Sustainable Polymer Composites and Nanocomposites* (pp. 977-999). Springer, Cham.
23. Premkumar, T., Irulappasamy, S., Rajesh, S., Jappes, J. W., & Amico, S. C. (2019). Investigation to Appraise the Abrasive Water Jet Response of Curaua/Basalt Hybrid Polyester Composites. *International Journal of Manufacturing, Materials, and Mechanical Engineering (IJMMME)*, 9(1), 13-29.
24. Siva, I., Thirukumaran, M., Jappes, J. T., Suresha, B., Kumar, S. A., & Sunil, B. R. (2018). Glass Fiber Hybrid Effects in Assessing the Abrasive Wear Mechanisms of Naturally Woven Fabric/Polymer Composites Under Dry Conditions. *Synthesis and Tribological Applications of Hybrid Materials*, 83.
25. Thirukumaran, M., Siva, I., Jappes, J. W., & Manikandan, V. (2018). Forming and drilling of fiber metal laminates—A review. *Journal of Reinforced Plastics and Composites*, 37(14), 981-990.
26. Senthilkumar, K., Siva, I., Rajini, N., & Jappes, J. W. (2018). Suchart Siengchin 2 1Kalasalingam University, Krishnankoil, Tamil Nadu, India, 2King Mongkut's University of Technology North Bangkok, Bangkok, Thailand. *Sustainable Composites for Aerospace Applications*, 35.
27. Chellaganesh, D., Khan, M. A., Ashif, A. M., Ragul Selvan, T., Nachiappan, S., & Winowlin Jappes, J. T. (2018). Hybrid Composite Material and Solid Particle Erosion Studies. *MS&E*, 346(1), 012014.
28. Bennet, C., Rajini, N., Jappes, J. T., & Siengchin, S. (2018). Effect of Curing Temperature on Mechanical Properties of Sansevieria Cylindrica Polyester Composites. *Advanced Science, Engineering and Medicine*, 10(3-4), 416-419.

29. Mayandi, K., Rajini, N., Jappes, J. T., Siengchin, S., & Abilash, M. S. (2018). Effect of Chemical Treatment on Tensile and Flexural Performance of Cyperus Pangorei Fibre Reinforced Polyester Composites. *Advanced Science, Engineering and Medicine*, 10(3-4), 476-479.
30. Chellaganesh, D., Khan, M. A., Jappes, J. W., & Sathiyarayanan, S. (2018). Cyclic oxidation and hot corrosion behavior of nickel–iron-based superalloy. *High Temperature Materials and Processes*, 37(2), 173-180.
31. Senthil Muthu Kumar, T., Rajini, N., Jawaidd, M., Varada Rajulu, A., & Winowlin Jappes, J. T. (2018). Preparation and Properties of Cellulose/Tamarind Nut Powder Green Composites: (Green composite using agricultural waste reinforcement). *Journal of Natural Fibers*, 15(1), 11-20.
32. Leon, S. J., Jappes, J. W., & Sahayaraj, M. E. (2018). Comparison of electroless Ni-P/Ni-B on corrosion performance. *International Journal of Engineering & Technology*, 7(1.9), 88-92.
33. Thirukumaran, M., Jappes, J. W., Siva, I., Amico, S. C., & Davim, J. P. (2018). 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*, 10(1/2), 17-27.
34. Poomarimuthukumar, G., Siva, I., Thirukumaran, M., & Jappes, J. W. (2018). A short review on fretting wear behaviour of Al7075. *International Journal of Computer Aided Engineering and Technology*, 10(6), 698-702.
35. Senthilkumar, K., Siva, I., Rajini, N., Jappes, J. W., & Siengchin, S. (2018). Mechanical characteristics of tri-layer eco-friendly polymer composites for interior parts of aerospace application. In *Sustainable Composites for Aerospace Applications* (pp. 35-53). Woodhead Publishing.
36. Kalusuraman, G., Siva, I., Jappes, J. W., Gao, X. Z., & Amico, S. C. (2018). Fibre loading effects on dynamic mechanical properties of compression moulded luffa fibre polyester composites. *International Journal of Computer Aided Engineering and Technology*, 10(1-2), 157-165.
37. Milan, S., Christopher, T., & Jappes, J. W. (2018). Investigation on mechanical properties and chemical treatment of litterous fibre reinforced polymer composites. *International Journal of Computer Aided Engineering and Technology*, 10(1-2), 102-110.

38. Kalirasu, S., Rajini, N., Rajesh, S., Jappes, J. W., & Karuppasamy, K. (2017). AWJM Performance of jute/polyester composite using MOORA and analytical models. *Materials and Manufacturing Processes*, 32(15), 1730-1739.
39. Khan, M. A., Prasad, N. R., Krishnan, S. N., Raja, S. K., Jappes, J. W., & Duraiselvam, M. (2017). Laser-treated austenitic steel and nickel alloy for human implants. *Materials and Manufacturing Processes*, 32(14), 1635-1641.
40. Rajini, N., Winowlin Jappes, J. T., Siva, I., Varada Rajulu, A., & Rajakarunakaran, S. (2017). Fire and thermal resistance properties of chemically treated ligno-cellulosic coconut fabric–reinforced polymer eco-nanocomposites. *Journal of Industrial Textiles*, 47(1), 104-124.
41. Siva, I., Jappes, J. T. W., & Suresha, B. (2012). Investigation on mechanical and tribological behavior of naturally woven coconut sheath-reinforced polymer composites. *Polymer composites*, 33(5), 723-732.
42. Kalusuraman, G., Siva, I., Jappes, J. W., & Amico, S. C. (2017). Effect of starch treatment and hybridisation on the mechanical properties of natural fibre composites. *International Journal of Computer Aided Engineering and Technology*, 9(2), 261-269.
43. Babu, K. V., Uthayakumar, M., Jappes, J. W., & Rajan, T. P. D. (2017). Optimization of drilling process on Al-SiC Composite using grey relation analysis. In *Materials Science and Engineering: Concepts, Methodologies, Tools, and Applications* (pp. 392-406). IGI Global.
44. Senthilkumar, K., Siva, I., Jappes, J. T., Amico, S. C., Cardona, F., & Sultan, M. T. H. (2016, October). Effect of inter-laminar fibre orientation on the tensile properties of sisal fibre reinforced polyester composites. In *IOP Conference series: materials science and engineering [recurso eletrônico]. [Bristol, UK]. Vol. 152,(2016), paper 012055, 5 f.*
45. Kalusuraman, G., Siva, I., Jappes, J. W., & Kumar, S. A. (2016). Effects of fiber surface modification on the friction coefficient of luffa fiber/polyester composites under dry sliding condition. *Journal of Polymer Engineering*, 36(8), 837-846.
46. Sahayaraj, M. E., Jappes, J. W., Siva, I., & Rajini, N. (2016). Investigation on corrosion performance of multilayer Ni-P/TiO₂ composite coating on steel. *Science and Engineering of Composite Materials*, 23(3), 309-314.
47. Brintha, N. C., Jappes, J. W., & Benedict, S. (2016, February). A Modified Ant Colony based optimization for managing Cloud resources in manufacturing sector. In *2016 2nd International Conference on Green High Performance Computing (ICGHPC)* (pp. 1-6). IEEE.

48. Mayandi, K., Rajini, N., Pitchipoo, P., Jappes, J. W., & Rajulu, A. V. (2016). Extraction and characterization of new natural lignocellulosic fiber *Cyperus pangorei*. *International Journal of Polymer Analysis and Characterization*, 21(2), 175-183.
49. Babu, K. V., Jappes, J. W., Rajan, T. P. D., & Uthayakumar, M. (2016). Dry sliding wear studies on SiC reinforced functionally graded aluminium matrix composites. *Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications*, 230(1), 182-189.
50. Kumar, K. S., Siva, I., Rajini, N., Jappes, J. W., & Amico, S. C. (2016). Layering pattern effects on vibrational behavior of coconut sheath/banana fiber hybrid composites. *Materials & Design*, 90, 795-803.
51. Rajini, N., Jappes, J. W., Karthikeyan, S., & Rajulu, A. V. (2016). Effect of Nanoclay on the Dielectric, Transport, Thermal and Fire Properties of Coconut Sheath/MMT Clay Polyester Hybrid Composites. In *Nanoclay Reinforced Polymer Composites* (pp. 127-150). Springer, Singapore.
52. Mayandi, K., Rajini, N., Pitchipoo, P., Jappes, J. W., & Siva, I. (2015). Mechanical performance of *Cissus quadrangularis*/polyester composite. *Materials Today Communications*, 4, 222-232.
53. Kalirasu, S., Rajini, N., Winowlin Jappes, J. T., Uthayakumar, M., & Rajesh, S. (2015). Mechanical and machining performance of glass and coconut sheath fibre polyester composites using AWJM. *Journal of Reinforced Plastics and Composites*, 34(7), 564-580.
54. Bennet, C., Rajini, N., Siva, I., Jappes, J. T. W., & Amico, S. C. (2015). Effect of curing temperature and layering pattern on performance studies: a novel hybrid composite. *Journal of Polymer Engineering*, 35(2), 127-134.
55. Mayandi, K., Rajini, N., Pitchipoo, P., Sreenivasan, V. S., Jappes, J. W., & Alavudeen, A. (2015). A comparative study on characterisations of *Cissus quadrangularis* and *Phoenix reclinata* natural fibres. *Journal of Reinforced Plastics and Composites*, 34(4), 269-280.
56. Bennet, C., Rajini, N., Jappes, J. W., Siva, I., Sreenivasan, V. S., & Amico, S. C. (2015). Effect of the stacking sequence on vibrational behavior of *Sansevieria cylindrica*/coconut sheath polyester hybrid composites. *Journal of Reinforced Plastics and Composites*, 34(4), 293-306.

57. Brintha, N. C., Benedict, S., & Jappes, J. W. (2015). Machining parameter optimisation of Al/SiCp composite materials using artificial neural networks. *International Journal of Computer Aided Engineering and Technology*, 7(1), 2-14.
58. Bennet, C., Siva, I., Jappes, J. W., & Rajini, N. (2015). Effect of process parameters in chemical modifications on mechanical properties of Sansevieria cylindrica/polyester composite using Taguchi technique. *International Journal of Computer Aided Engineering and Technology*, 7(1), 15-28.