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List of Publications:

1. Devanathan C., **Suresh Babu A.**, Giri R., Azad A., "Predicting the Tensile Strength of Metal Matrix Composites Joined by Friction Stir Welding and Optimization of Parameters using Firefly Algorithm", Journal of the Chinese Society of Mechanical Engineers, published by Chinese Society of Mechanical Engineers . Vol. 41, Issue 4, pp. 513 - 520 (2020).
2. **A. Suresh Babu**, M. Jaivignesh, S. Srinivasan , M. Sugavaneswaran, "Design of Functional Gradient Porous Structure and its Fabrication using DMLS Process ", Materials Today: Proceedings , published by Elsevier. Vol. 24, pp. 1561-1569 (2020).
3. Jaivignesh M. **Suresh Babu A.** Arumaikkannu G., "In-vitro Analysis of Titanium Cellular Structures Fabricated by Direct Metal Laser Sintering", Materials Today: Proceedings, published by Elsevier. Vol. 22, Issue 4, pp. 2372-2377 (2020).
4. **Suresh Babu A.**, Jaivignesh M., Poovarasan D., " Mechanical and Crystallization Behaviour of Sisal Fiber and Talc Reinforced Polylactic Acid Composites", Advances in Unconventional Machining and Composites , Lecture Notes on Multidisciplinary Industrial Engineering, published by Springer, Singapore. pp. 749-756 (2020).
5. Arivukkarasan S., Stalin B., **Suresh Babu A.**, Pandiyarajan, "Analysis on Mechanical Behaviour of Binary and Hybrid Al2014 Metal Matrix Composites", Lecture Notes in Mechanical Engineering, published by Springer, Singapore. pp. 319-325 (2019).
6. Devanathan C, **Suresh Babu A**, Shankar.E, "Friction Stir Welding of Aluminum alloys using Coated and Non Coated Tool ", Materials Today: Proceedings , published by Elsevier. Vol. 16, Issue 2, pp. 889-896 (2019).

7. Devanathan C., **Suresh Babu A.**, Haribabu B, Shankar E, "Surface Composites Preparation of Al5052 Reinforced with Al₂O₃ by Friction Stir Processing", International Journal of Recent Technology and Engineering (IJRTE), published by Blue Eyes Intelligence Engineering & Sciences Pub. Vol. 8, Issue 2, pp. 3979-3983 (2019).
8. **Suresh Babu A.**, Gowthamraj S and Jaivignesh M, "A Comparative Study on Mechanical Properties of Kenaf Fiber-Reinforced Polyester Composites Prepared by VARI, RTM and CM Techniques", IOP Conference Series: Materials Science and Engineering, published by IOP Publishing Ltd. Vol. 577, Issue 1, pp. 1-9 (2019).
9. Arunkumar N E , **Suresh babu A.**, "Influence of Input Parameters in Enhancing the Machinability of Monel Alloy using Near- Dry WEDM", Materials and Manufacturing Processes, published by Taylor & Francis. Vol. 33, Issue 1, pp. 85-92 (2018).
10. **Suresh Babu A.**, Nagarajan T.T., Palanivelu K. Nayak S.K., "Mechanical and thermal properties of epoxy composites reinforced with carbon and pineapple leaf fiber", Journal of Polymer Materials, published by Print Publications. Vol. 35, Issue 1, pp. 61-71 (2018).
11. **Suresh Babu A.**, Jaivignesh M, Dhinakaran S, Vengatesan S, Vimal Prakash C, Divakaran Ramasamy R, "Effect of Equal Channel Angular Pressing on Microstructure and Hardness of Al (2014) – Nickel Coated Alumina Composites", Materials Today: Proceedings, published by Elsevier. Vol. 5, Issue 2, pp. 6821-6830 (2018).
12. Jaivignesh M, **Suresh Babu A.**, Dhanalakshmi S, Shanmuga Sundaram K, "Evaluation of Mechanical Properties of Al (2014)-Nickel Coated SiC Composites Subjected to Equal Channel Angular Pressing ", Journal of Advanced Microscopy Research (JAMR), published by American Scientific Publishers. Vol. 13, pp. 282-292 (2018).
13. **Suresh Babu A.**, Binish K. M. , Jaivignesh M., Sugavaneswaran M., "Modelling of Functional Gradient Porous Structure and its Fabrication using Additive Manufacturing Process", Materials Today: Proceedings, published by Elsevier Ltd.. Vol. 5, pp. 24558-24567 (2018).
14. **Suresh Babu A.** , Jaivignesh M. , Anbarasu M, "Wear and Corrosion Behaviour of Aluminium 6061 Hybrid Metal Matrix Composite", International Innovative Research Journal of Engineering and Technology, published by Melange Publications. Vol. 4, pp. 12-17 (2018).

15. **Suresh Babu A.** , Jaivignesh M. , Vishal R. ,Jagatheeson B. , Gokul Chandra Kumar R., "Evaluation of Grain size and Hardness of Equal Channel Angular Pressed Al (2014)-SiC-Al₂O₃ Metal Matrix Composites", International Innovative Research Journal of Engineering and Technology, published by Melange Publications. Vol. 4, pp. 8-11 (2018).
16. M. Jaivignesh, **A. Suresh Babu**, G. Arumaikkannu, "Effect of Pore Orientation on Flexural Strength of Ti64 Cellular Structures Fabricated by DMLS Process for Mandibular Implant", Additive Manufacturing Journal, published by Additive Manufacturing Society of India . Vol. 1, Issue 2, pp. 44-50 (2018).
17. Nagarajan T.T., **Suresh Babu A.**, Palanivelu K, Nayak S.K., "Mechanical and Thermal Properties of PALF Reinforced Epoxy Composites", Macromolecular Symposia, published by John Wiley & Sons. Vol. 361, Issue 1, pp. 57-63 (2016).
18. N. E. Arun Kumar, **A. Suresh Babu** , D. Murali, "A study on parametric optimization of wire Electrical discharge machining using response Surface methodology", International Journal of Chemical Sciences, published by sadguru publications. Vol. 14, Issue 2, pp. 1051-1059 (2016).
19. Athimoolam M, Moorthy T V, **Suresh babu A**, "Empirical modelling and Experimental Investigation of the Amine treated Nanoclay Reinforced Epoxy -Polythene Blended Resin Composites", Polymer and Polymer composites, published by SAGE publishing. Vol. 24, Issue 7, pp. 539-546 (2016).
20. R. Saravanan, **A. Suresh Babu**, and T. Maridurai, "Influence of Surface modified MWCNT on Mechanical and Thermal Properties of Carbon Fiber/Epoxy Resin Hybrid Nanocomposite", Digest Journal of Nanomaterials and Biostructures, published by National Institute of Materials Physics, ROMANIA. Vol. 11, Issue 4, pp. 1303-1309 (2016).
21. Athimoolam M., Moorthy T. V., **Suresh Babu A** and Logesh Kumar, "Compression Test on Epoxy-Polyurethane Blended Resin, with Nanoclay Reinforced Composite Pipeline and Finite Element Analysis", Indian Journal of Science and Technology, Vol. 9, pp. 1-6 (2016).

22. V. Muthukumar, **A. Suresh Babu**, R. Venkatasamy, N. Senthil Kumar, "An Accelerated Particle Swarm Optimization Algorithm on Parametric Optimization of WEDM of Die-Steel", Journal of The Institution of Engineers (India): Series C, published by Springer International Publishing AG. Vol. 96, Issue 1, pp. 49-56 (2015).
23. Ajith Damodaran, Hossein Mansour, Larry Lessard, Gary Scavone, **A. Suresh Babu**, "Application of composite materials to the chenda, an Indian percussion instrument", Applied Acoustics, published by Elsevier. Vol. 88, pp. 1-5 (2015).
24. S. Dhanalakshmi, M. Jaivignesh, **A. Suresh Babu** and K. Shanmuga Sundaram, "Microstructural and Mechanical Behaviour of Aluminium Matrix Composites Reinforced with Coated SiC Particles Fabricated by Stir Casting", Applied Mechanics and Materials, published by Transtech Publications. pp. 301-307 (2015).
25. Selwyn Jebadurai D, **Suresh Babu A**, "Influence of functionalized multi-walled carbon nanotubes on mechanical properties of glass fiber reinforced polyester composites", Indian Journal of Engineering & Materials Sciences, published by NISCAIR in association with the Indian National S. Vol. 22, pp. 167-174 (2015).
26. Ajith Damodaran, Larry Lessard, **Suresh Babu A**, "An Overview of Fibre-Reinforced Composites for Musical Instrument Soundboards", Acoustic Australia, published by Springer. Vol. 43, Issue 1, pp. 117-122 (2015).
27. Saravanan M., **Suresh Babu A**, "Parametric optimization of increasing corner accuracy in WEDM on Inconel 625", Journal of Chemical and Pharmaceutical Sciences, pp. 443-447 (2015).
28. C. Devanathan, **A. Suresh Babu**, Dominic Roystan, M.S. Balaguru, "Effect of Tool Rotational Speed on Mechanical Properties of Aluminium Matrix composites Welded by Friction Stir Welding", International Journal of Applied Engineering Research, published by Research India Publications. Vol. 10, Issue 55, pp. 3850-3854 (2015).
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