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## **International Journals Published:**

- 1. Caldeira RH, **Gnanavelbabu A**., "Solving the flexible job shop scheduling problem using an improved Jaya algorithm. Computers & Industrial Engineering, published by ELSEVIER **(2019)**; Vol 137,pp. 1–16.
- 2. Loganathan P, **Gnanavelbabu A** and Rajkumar K,"Analysis and characterization of friction behaviour on AA7075/ZrB2 composite under dry sliding condition", Materials Research Express, published by IOP Science. **(2019)**, Vol. 6, Issue 2, pp.1-14.
- 3. Rajkumar K, **Gnanavelbabu A** and Nambiraj K,"Accelerated Testing Model Prediction of Fatigue Life of AA5083-H111—AA6061-T6 Friction Stir Weldment", Advances in Manufacturing Processes, Part of the Lecture Notes in Mechanical Engineering book series (LNME) published by Springer. **(2019)**, pp. 573-581.
- 4. **Gnanavelbabu A**, Rajkumar K and Saravanan P, "Investigation on the Cutting Quality Characteristics of Abrasive Waterjet Machining on AA6061-B<sub>4</sub>C-hBN Hybrid Metal Matrix Composites", Materials and Manufacturing Process, published by Taylor and Francis. (2018), Vol. 33, Issue 12, pp.1313-1323.
- 5. **Gnanavelbabu A**, Saravanan P, Rajkumar K, Karthikeyan S and Baskaran R, "Optimization of WEDM Process Parameters on Multiple Responses in Cutting of Ti-6Al-4V", Materials Today: Proceedings, ELSEVIER. **(2018)**, Vol. 5, Issue 13, pp. 27072-27080.
- 6. **Gnanavelbabu A**, Saravanan P, Rajkumar K and Sabarinathan P, "Mechanical strengthening effect by various forms and orientation of glass fibre reinforced isopthalic polyester polymer composite" Materials Today: Proceedings, ELSEVIER. **(2018)**, Vol. 5, Issue 13, pp. 26850-26859.
- 7. Mathiyazhagan K, **Gnanavelbabu A**, Lokesh Prabhuraj B,"A sustainable assessment model for material selection in construction industries perspective using hybrid MCDM approaches" Journal of Advances in Management Research, published by emerald Insight. **(2018)**, https://doi.org/10.1108/JAMR-09-2018-0085.
- 8. Rajkumar K, **Gnanavelbabu A**, Solaivenkatesan M, Rajagopalan K,"Cooperating Function of Graphite in Reducing Frictional Wear of Aluminium Boron Carbide composite" Materials Today: Proceedings, ELSEVIER. **(2018)**, Vol. 5, Issue 14, pp. 27801-27809.

- 9. Mugendiran V and **Gnanavelbabu A**, "Analysis of Formability and Twist Angle in AA5052 Alloy by Single Point Incremental Forming Process" Indian Journal of Engineering and Materials Sciences. **(2018)**, Vol. 25, pp. 163-168.
- 10. Pandiaraj P, **Gnanavelbabu A** and Saravanan P, "Experimental and Statistical Analysis of MgO Nanofluids for Thermal Enhancement in a Novel Flat Plate Heat Pipes", International Journal of Nanoscience. **(2018)**, Vol. 17, Issue 1-2, pp. 181-189.
- 11. Saravanan P, **Gnanavelbabu A** and Pandiaraj P, "Effect of Pre-Annealing on Thermal and Optical Properties of ZnO and Al–ZnO Thin Films", International Journal of Nanoscience. **(2018)**, Vol. 17, Issue 1-2, pp. 171-180.
- 12. Sankar M, **Gnanavelbabu A**, Rajkumar K and Thushal N A, "*Electrolytic Concentration Effect on the Abrasive Assisted- Electrochemical Machining of Aluminium-Boron Carbide Composite*", Materials and Manufacturing Process, published by Taylor and Francis. (**2017**), Vol. 32, Issue 6, pp.687-692.
- Mugendiran V and Gnanavelbabu A, "Comparison of plastic strains on AA5052 by single point incremental forming process using digital image processing", Journal of Mechanical Science and Technology, published by Springer London. (2017), Vol. 31, Issue 6, pp. 2943-2949.
- 14. Sankar M, **Gnanavelbabu A** and Rajkumar K, "Parametric Optimization of Abrasive Assisted Electro Chemical Machining of Al6061-B4C-Gr using Taguchi-Grey Technique", Journal of the Balkan Tribological Association. (2017), Vol. 23, Issue 1, pp. 67-87.
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- Arunagiri P, Gnanavelbabu A and Dhanasekar D, "Implementation of Robotic Welding for the Improvement of Production Systems", International Journal of Engineering Trends and Technology. (2017), Vol. 49, No. 05, pp. 304-309.
- 17. **Gnanavelbabu A**, Arunagiri P, Bharathiraja G, and Jayakumar V, "Reduction of Operator's Loading and Unloading Time using Lean Systems for Productivity Improvement", International Journal of Mechanical Engineering and Technology. (2017), Vol. 8, No. 10, pp. 207-216.
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- 19. Arunagiri P and **Gnanavelbabu A**, "Identification of Major lean waste and its Contributing Factors using the Fuzzy Analytical Hierarchy Process", Transactions of the Canadian Society for Mechanical Engineering. (2016), Vol.40, No.3, pp. 371-382.