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List of Publications for the last 5 years:

1. S Ajith Arul Daniel, P Shenbaga Velu, R Kumar, S Vijay Ananth, Numerical analysis of single cylinder engine crankshaft, AIP Conference Proceedings, Vol. 2283, pp. 020116, 2020.
2. R Tharmaraj, N Rajesh Jesudoss Hynes, P Shenbaga Velu, Investigation on friction stud welded AMC/AISI 304 steel joints with ceramic intercoating, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 42, pp. 1-8, 2020.
3. P. Shenbaga Velu N. Rajesh Jesudoss Hynes, N. J. Vignesh, Low-speed friction riveting: a new method for joining polymer/metal hybrid structures for aerospace applications, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 42, 2020.
4. P Shenbaga Velu, NJ Vignesh, N Rajesh Jesudoss Hynes, Surface Characteristics When Solid State Welding of Aluminium Alloys to Magnesium Alloys, Surface Engineering of Modern Materials, pp. 81-101, 2020.
5. P Shenbaga Velu, N Rajesh Jesudoss Hynes, NJ Vignesh, Joining of AA 6061/Ti-6Al-4V with zinc interlayer using friction welding process, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 41, pp. 537, 2019.
6. Shenbaga Velu, N. Rajesh Jesudoss Hynes (2019), 'Handbook 2 of Elsevier's Handbook series 'Welding and Deforming'', Advanced Joining of Dissimilar Alloys using Solid State Welding Processes.
7. MS Kumar, S Ragunathan, P Shenbaga Velu, M Suresh, VR Srinivashan, P Kumaravel, Effect of zinc nickel coating on properties of Nitrided AISI 1040 steel, Materials Research Express, Vol. 6, pp. 086547, 2019.
8. P. Shenbaga Velu N. Rajesh Jesudoss Hynes, Numerical simulation of friction welding of aluminium/titanium joints, Materials Research Express, 2018.

9. N Rajesh Jesudoss Hynes, A Jeffrey Markus Solomon, E Kathires, D Brighton, P Shenbaga Velu, Design and development of flapping wing micro air vehicle, AIP Conference Proceedings, Vol. 1953, pp. 140104, 2018.
10. P Shenbaga Velu, N Rajesh Jesudoss Hynes, Numerical Modeling of Friction welding of Bi-metal joints for Electrical applications, AIP Conference Proceedings, Vol. 1953, pp. 140097, 2018.
11. N Rajesh Jesudoss Hynes, P Shenbaga Velu, Abeyram M Nithin, Friction push plug welding in airframe structures using Ti-6Al-4V plug, Journal of the Brazilian Society of Mechanical Sciences and Engineering, Vol. 40, pp. 158, 2018.
12. PS Velu NRJ Hynes, Microstructural and mechanical properties on friction welding of dissimilar metals used in motor vehicles, Materials Research Express, Vol. 5, pp. 026521, 2018.
13. P. Shenbaga Velu N. Rajesh Jesudoss Hynes, Effect of rotational speed on Ti-6Al-4V-AA 6061 friction welded joints, Journal of Manufacturing Processes, Vol. 32, pp. 288-297, 2018.
14. N Rajesh Jesudoss Hynes, R Kumar, P Shenbaga Velu, J Angela Jennifa Sujana, Optimization of friction stud welding process parameters by integrated Grey-Fuzzy logic approach, Journal of applied research and technology, Vol. 16, pp. 4, 2018.
15. N Rajesh Jesudoss Hynes, P Shenbaga Velu, Simulation of friction welding of alumina and steel with aluminum interlayer, The International Journal of Advanced Manufacturing Technology, Vol. 93, pp. 121-127, 2017.
16. N Rajesh Jesudoss Hynes, P Shenbaga Velu, R Kumar, M Karthick Raja, Investigate the influence of bonding temperature in transient liquid phase bonding of SiC and copper, Ceramics International, Vol. 43, pp. 7762-7767, 2017.
17. N Rajesh Jesudoss Hynes, R Tharmaraj, P Shenbaga Velu, R Kumar, Finite element based simulation on friction stud welding of metal matrix composites to steel, AIP Conference Proceedings, Vol. 1728, pp. 020556, 2016.
18. N Rajesh Jesudoss Hynes, R Kumar, R Tharmaraj, P Shenbaga Velu, Production of aluminium metal matrix composites by liquid processing methods, AIP conference proceedings, Vol. 1728, pp. 020558, 2016.
19. N Rajesh Jesudoss Hynes, P Shenbaga Velu, R Tharmaraj, R Kumar, Numerical investigation on friction welding of alumina/AA 6063 T6 joints, AIP Conference Proceedings, Vol. 1728, pp. 020550, 2016.

20. P. Shenbaga Velu and N. Rajesh Jesudoss Hynes, Numerical analysis of friction welded titanium joints, Journal of Achievements in Materials and Manufacturing Engineering, Vol.76, pp. 26-29, 2016.
21. N Rajesh Jesudoss Hynes, P Shenbaga Velu, Thermo Mechanical Modelling of Friction Welding using Finite Element Method (FEM), European Journal of Advances in Engineering and Technology, Vol.2, pp. 29-32, 2015.
22. N Rajesh Jesudoss Hynes, P Shenbaga Velu, Simulation on Friction Welding Of MgAZ31/AA 6061 T6 Joints, Recent Advances in Computer Science, Recent Advances in Computer Engineering Series, Vol.32, pp. 524-528, 2015.