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List of Publications

- 1. A Rajesh Kannan, N Siva Shanmugam, G Sreedhar, Studies on corrosion behavior of AISI 316L cold metal transfer weldments in physiological solutions, Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 234(6), 644-656, 2020 Impact factor 1.606
- **2.** A Karpagaraj, N Rajesh Kumar, N Thiyaneshwaran, N Siva Shanmugam, Murali Mohan Cheepu, R Sarala, *Experimental and numerical studies on gas tungsten arc welding of Ti–6Al–4V tailor-welded blank*, <u>Journal of the Brazilian Society of Mechanical Sciences and Engineering</u>, 42(10), 1-11, 2020 **Impact factor 1.755**
- 3. Pranav Praveen Nikam, D Arun, K Devendranath Ramkumar, N Sivashanmugam, *Microstructure characterization and tensile properties of CMT-based wire plus arc additive manufactured ER2594*, Materials Characterization, 110671, 2020 Impact factor 3.562
- **4.** N Pravin Kumar, N Siva Shanmugam, Some studies on nickel based Inconel 625 hard overlays on AISI 316L plate by gas metal arc welding based hardfacing process, Wear, 456, 203394, 2020 **Impact factor 4.108**
- 5. CK Krishnadasan, N Siva Shanmugam, B Sivasubramonian, B Nageswara Rao, R Suresh, Analytical studies and numerical predictions of stresses in shear joints of layered composite panels for aerospace applications, Composite Structures, 112927, 2020 Impact factor 5.138

- **6.** A Karpagaraj, N Rajesh Kumar, K Sankaranarayanasamy, N Siva Shanmugam, Muralimohan Cheepu, *Simulation and Experimental Studies on Arc Efficiency and Mechanical Characterization for GTA-Welded Ti–6Al–4V Sheets*, <u>Arabian Journal for Science and Engineering</u>, 2020 **Impact factor-1.711**
- **7.** R Duraisamy, S Mohan Kumar, A Rajesh Kannan, N Siva Shanmugam, K Sankaranarayanasamy, MR Ramesh, *Tribological performance of wire arc additive manufactured 347 austenitic stainless steel under unlubricated conditions at elevated temperatures*, <u>Journal of Manufacturing Processes</u> 56, 306-321, **Impact factor-4.086.**
- **8.** R Pramod, S Mohan Kumar, B Girinath, A Rajesh Kannan, N Pravin Kumar, N Siva Shanmugam *Fabrication, characterisation, and finite element analysis of cold metal transfer–based wire and arc additive–manufactured aluminium alloy 4043 cylinder, Welding in the World, 1-15, Impact factor-1.589.*
- **9.** A Rajesh Kannan, S Mohan Kumar, N Pravin Kumar, N Siva Shanmugam, AS Vishnu, Yasam Palguna *Process-microstructural features for tailoring fatigue strength of Wire Arc Additive Manufactured Functionally Graded Material of SS904L and Hastelloy C-276 Materials Letters, 127968, Impact factor-3.204.*
- **10.** R Pramod, N Siva Shanmugam, CK Krishnadasan, *Studies on cold metal transfer welding of aluminium alloy 6061-T6 using ER 404*, <u>Proceedings of the Institution of Mechanical Engineers</u>, <u>Part L: Journal of Materials: Design and Applications</u>, https://doi.org/10.1177%2F1464420720917175, 2020, **Impact factor-1.568.**
- 11. A Rajesh Kannan, N Siva Shanmugam, V Rajkumar, M Vishnukumar, *Insight into the microstructural features and corrosion properties of Wire Arc Additive Manufactured Super Duplex Stainless Steel (ER2594)*, Materials Letters, Pages 127680, 2020, Impact factor-3.204.
- **12.** S Mohan Kumar and N Siva Shanmugam, *Effect of heat input and weld chemistry on mechanical and microstructural aspects of double side welded austenitic stainless steel 321 grade using tungsten inert gas arc welding process, Material Science & Engineering Technology, Vol. 51, Issue 3, Pages 349-367, 2020, Impact factor-0.556.*
- **13.** B Girinath, N Siva Shanmugam and C Sathiyanarayanan, *Studies on influence of torch orientation on microstructure, mechanical properties and formability of AA5052 CMT welded blanks*, <u>Archives of Civil and Mechanical Engineering</u>, Vol. 20, Issue 1, Pages 1-22, 2020, **Impact factor-2.846.**
- **14.** R Pramod, S Mohan Kumar, N Siva Shanmugam and S Arungalai Vendan, *Formability studies on plasma arc welded duplex stainless steel 2205 sheet*, Material Science & Engineering Technology, Vol. 51, Issue 2, Pages 163-173, 2020, **Impact factor-0.556.**
- 15. M Arunkumar, V Dhinakaran and N Siva Shanmugam, *Numerical prediction of temperature distribution and residual stresses on plasma arc welded thin titanium sheets*, International Journal of Modelling and Simulation, https://doi.org/10.1080/02286203.2019.1700089, 2019.
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- 17. S Mohan Kumar and N Siva Shanmugam, *Finite element simulation for tensile and impact test of activated TIG welding of AISI 321 austenitic stainless steel*, <u>Proceedings of the Institution of Mechanical Engineers</u>, <u>Part L: Journal of Materials: Design and Applications</u>, Vol. 223, Issue 11, Pages 2323-2334, 2019, **Impact factor-1.568**.
- **18.** R Pramod, CK Krishnadasan, N Siva Shanmugam, *Design and finite element analysis of metal-elastomer lined composite over wrapped spherical pressure vessel*, Composite Structures, Vol. 224, Pages 111028, 2019, **Impact factor-4.829.**
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- **21.** B. Girinath, N. Siva Shanmugam and K. Sankaranarayanasamy, *Weld bead graphical prediction of cold metal transfer weldment using ANFIS and MRA model on MATLAB platform*, Simulation: Transactions of the Society for Modeling and Simulation International, Vol. 95 Issue 8, Pages 725-736, 2019, **Impact factor-1.455.**
- **22.** R Duraisamy, S Mohan Kumar, A Rajesh Kannan, N Siva Shanmugam and K Sankaranarayanasamy *Reliability and sustainability of wire arc additive manufactured plates using ER 347 wire-mechanical and metallurgical perspectives*, Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, https://doi.org/10.1177%2F0954406219861136, 2019 Impact factor 1.359.
- 23. A. Karpagaraj, N. Siva Shanmugam and K. Sankaranarayanasamy *Experimental investigations and numerical prediction on the effect of shielding area and post flow time in the GTAW of CP Ti sheets* The International Journal of Advanced Manufacturing Technology, Vol. 101 Issue 9-12, Pages 2933-2945, 2019, Impact factor- 2.496
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- 25. V Dhinakaran, R Patil, G Sriram and NS Shanmugam, *Studies on crack propagation in plasma arc welded Ti-6Al-4V joint during erichsen cupping test*, <u>International Journal of Recent Technology and Engineering</u>, 2019, Vol.8, Issue 1, Pages 79-83, 2019.
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- **32.** S. Mohan Kumar and N. Siva Shanmugam *Studies on the weldability, mechanical properties and microstructural characterization of activated flux TIG welding of AISI 321 austenitic stainless steel*, <u>Material research express</u>, Vol. 5 No. 10, 2018, Pages 106524 **Impact factor 1.449.**
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- **37.** N Pavan Kumar, Praveen K Devarajan, S Arungalai Vendan and N Shanmugam, Prediction of bead geometry in cold metal transfer welding using back propagation neural network, The International Journal of Advanced Manufacturing Technology, Vol. 93 Issue 1-4, Pages 385-392, 2017, **Impact factor- 2.496.**
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- **44.** K. Devendranath Ramkumar, Debidutta Mishra, B. Ganesh Raj, M.K. Vignesh, G. Thiruvengatam, S.P. Sudharshan, N. Arivazhagan, N. Sivashanmugam and Arul Maximus Rabel, *Effect of optimal weld parameters in the microstructure and mechanical properties of autogeneous gas tungsten arc weldments of super-duplex stainless steel UNS S32750, Materials & Design (1980-2015), Vol. 66, Part A, 2015, pp. 356-365 Impact Factor 4.364*
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