

List of publications

1. T.A. Vigneshwara Kumaran, S.A. Nithin Joseph Reddy, S. Jerome, N. Anbarasan, N. Arivazhagan, **M. Manikandan**, M. Sathishkumar. Development of Pulsed Cold Metal Transfer and Gas Metal Arc Welding Techniques on High Strength Aerospace Grade AA7475-T761. Journal of Materials Engineering and Performance. ASM International.
2. M, Sathishkumar; **Manikandan, M.** "Development of Pulsed Current Arc Welding to Preclude Carbide Precipitates in Hastelloy X weldment using ERNiCr-3". Journal of Materials Engineering and Performance. 29, 5395–5408(2020) ASM International.
3. M, Sathishkumar; **Manikandan, M.** "Influence of pulsed current arc welding to preclude the topological phases in the aerospace-grade Alloy X." Journal of Materials: Design and Applications. 23(4), 2020, 637-653.
4. M Natesh, **M. Manikandan.** "Hot Fissuring Mitigation in Arc Welding Of Nickelvax 23 Superalloy". Journal of Manufacturing Processes. 56, 2020, 228-237.
5. M Natesh, **M. Manikandan.** "Influence of filler wires to suppress the microsegregation and to improve mechanical properties of conventional arc welded nickel based superalloy Incoloy 20". Transactions of the Indian Institute of Metals. 73(5), 2020, 1333-1362
6. M, Sathishkumar; **Manikandan, M.** Effect of Welding Speed on Aspect Ratio of Hastelloy X Weldment by Keyhole Plasma Arc Welding (K-PAW). Materials Today: Proceedings 22P4 (2020) pp. 3294-3301
7. Effect of Frequency on Microstructural and Corrosion Demeanour of Alloy C- 276 Weldment. Materials Today: Proceedings 22P4 (2020) pp. 3276-3282
8. M Natesh, **M. Manikandan.** Exploration of Mechanical and Metallurgical Characterization of Incoloy 20 Weldment using Gas Tungsten Arc Welding Methods. Accepted, Materials Today Proceedings, 27 (2020), 2930 – 2934.
9. M Sathishkumar, P Subramani, M Natesh, M Venkateshkannan, N Arivazhagan, **M Manikandan.** Effect of hot corrosion demeanour on aerospace-grade Hastelloy X made by pulsed and constant current arc welding in molten salts at 820 °C. IOP Conf. Series: Materials Science and Engineering 912 (2020) 032060
10. B Arulmurugan, M Sathish Kumar, D Balaji, S Sathish, S Rajkumar, N Arivazhagan, C D Naiju, and **M Manikandan.** Investigation on the effect of Pulsed Frequency on Microstructure and Hardness of Alloy C-2000 By Current Pulsing. SAE Technical Paper 2020-28-0420, 2020.
11. M Natesh, M Sathishkumar, Naunidhdyot Singh Gulati, Abhinav Srivastava, ^aNimish Looned, S.A. Nithin Joseph Reddy, N Arivazhagan, C D Naiju and **M Manikandan** Effect of Austenitic Filler Wires on Duplex Stainless Steel 2205 Weldment Made by Gas Tungsten Arc Welding. SAE Technical Paper 2020-28-0431, 2020.
12. M Sathishkumar, N Arivazhagan, K Gokulkumar, C G Mohan, C D Naiju and **M Manikandan.** Study on the High Temperature Tensile Properties of Aerospace Grade Hastelloy X Joined by Pulsed Current Arc Welding. SAE Technical Paper 2020-28-0421, 2020.
13. M Sathishkumar, P Subramani, N Arivazhagan, K Gokulkumar, S Jerome, C D Naiju, **M Manikandan.** Hot Corrosion Demeanour of Key-hole Plasma Arc Welded Aerospace Grade Hastelloy X in molten Salts Environment. SAE Technical Paper 2020-28-0422, 2020
14. P Subramani, M Sathishkumar, **M Manikandan**, C D Naiju, N Anbarasan and S Jerome. Studies on Metallurgical and Mechanical Properties of Plasma Arc Welded Aerospace 80A Grade Alloy. SAE Technical Paper 2020-28-0466, 2020.
15. T.A. Vigneshwara Kumaran, S.A. Nithin Joseph Reddy, S. Jerome, N. Anbarasan, N. Arivazhagan, M. Manikandan, M. Sathishkumar. Development of Pulsed Cold Metal Transfer and Gas Metal Arc Welding Techniques on High Strength Aerospace Grade AA7475-T761. Journal of Materials Engineering and Performance. ASM International.

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20. M, Sathishkumar; Manikandan, M. Effect of Welding Speed on Aspect Ratio of Hastelloy X Weldment by Keyhole Plasma Arc Welding (K-PAW). Materials Today: Proceedings 22P4 (2020) pp. 3294-3301
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