

List of publications

1. Mohammed asif M, Anup Kulkarni, Sathiya Paulraj Effects of post weld heat treatment on friction welded duplex stainless steel joints, Journal of Manufacturing Processes (Elsevier) -Volume 21, January 2016, Pages 196–200-SCI Journal.
2. Arun Kumar Srirangan, Sathiya Paulraj, Multi-response optimization of process parameters for TIG welding of incoloy 800 HT by Taguchi grey relational analysis, Engineering Science and Technology: An International Journal (Elsevier), Volume 19, Issue 2, June 2016, Pages 811–817.
3. Chellappan. M, Lingadurai. K, Sathiya. P, Devakumaran. K and Raja. K, Effect of heat input on mechanical and metallurgical properties of gas tungsten arc welded lean super martensitic stainless steel, Journal of Materials Research (ibero- american journal of materials)- 2016; 19(3): 572-579 -SCI Journal.
4. 75. B.Shanmugarajan, Rishabh Shrivastava, P.Sathiya, G.Buvanasekaran, Optimization of Laser Welding Parameters for Welding of P92 Material using Taguchi based Grey Relational Analysis" Journal of Defence Technology- 12 (2016) 343–350. (Elsevier).
5. S.Arun Kumar and P.Sathiya, Modelling and characterization of laser welded incoloy 800 HT Joints, International journal of Advances in Science and Technology Research Journal, 2016; 10(30):115–126. SCI Journal.
6. R. Vetri Selvan, P.Sathiya, G.Ravichandran, Transient Out-Of-Plane Distortion of Multi-Pass Fillet Welded Tube to Pipe T-Joints, Journal of Defence Technology- Accepted for Publication (Elsevier), 13, 2017, 77-85..
7. Arun Kumar Srirangan, Sathiya Paulraj, Effects of heat input on the mechanical and metallurgical characteristics of TIG welded Incoloy 800HT Joints, International journal of Archives of Metallurgy and Materials, 62 (2017), 3, 1671-1677. SCI Journal.
8. B.Shanmugarajan, P.Sathiya, G.Buvanasekaran, Mechanical and Metallurgical Properties of Autogenous Laser Welded P92 Material, Journal of Manufacturing Processes (Elsevier), 24 (2016) 11–18-SCI Journal.
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11. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, P.Mastanaiah, C.V. Srinivasa Murthy, Effects of mechanical, metallurgical and corrosion properties of cryorolled AA2219-T87 aluminium alloy, Material Today Proceedings (Elsevier), Volume 4, Issue 2, Part A, 2017, Pages 285–293.-SCI Journal.

12. M. Chellappan, K. Lingadurai, P. Sathiya, Characterization and Optimization of TIG welded super martensitic stainless steel using TOPSIS, *Material Today Proceedings* (Elsevier), Volume 4, Issue 2, Part A, 2017, Pages 1662–1669. -SCI Journal.
13. S.Arunkumar, P. Sathiya and K.Devakumaran, S.Ramesh Kumar, Microstructural and mechanical characterization of as weld and aged conditions of AA2219 aluminium alloy by gas tungsten arc welding process, *Russian Journal of Non Ferrous Metal*, January 2018, Volume 59, Issue 1, pp 93–101 -SCI Journal.
14. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, P.Mastanaiah, C.V. Srinivasa Murthy, Parameter optimization of friction stir welding of cryorolled AA2219 alloy using artificial neural network modelling with Genetic algorithm, *The International Journal of Advanced Manufacturing Technology*, February 2018, Volume 94, Issue 9–12, pp 3117–3129.-SCI Journal.
15. L.Srinivasan, Sanjay J Jakka, P.Sathiya, Microstructure and mechanical properties of Gas tungsten arc welded High Strength Low Alloy (15CDV6) steel joints, *Material Today Proceedings* (Elsevier),4, 2017, 8874-8882- SCI Journal.
16. Arunkumar Sivaraman, Sathiya Paulraj, Multi-Response Optimization of Process Parameters for MIG Welding of AA2219-T87 by Taguchi Grey Relational Analysis, *Material Today Proceedings* (Elsevier),4, 2017, 8892-8900- SCI Journal.
17. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, P.Mastanaiah, C.V. Srinivasa Murthy, Influences of metastable θ'' , θ' and stable θ intermetallics formed during Cryorolling and Friction Stir Welding process on AA2219, *Journal of Alloys and Compounds* Volume 732, 25 January 2018, Pages 624-629-SCI Journal.
18. R.Vetriselvan P.Sathiya G.Ravichandran, Experimental and numerical investigation on thermal fatigue behavior of 9 Cr 1 Mo steel tubes, *Engineering Failure Analysis* (Elsevier), 84, 2018, 139-150. –SCI
19. Umar, M., & Sathiya, P. (2019). Influence of melting current pulse duration on microstructural features and mechanical properties of AA5083 alloy weldments. *Materials Science and Engineering: A*, 746, 167-178.
20. Shanmugarajan,B., & Sathiya,P, Effect of shielding gases in autogenous laser welding of P92 material *Transactions of the Indian Institute of Metals*. *Transactions of the Indian Institute of Metals*. DOI 10.1007/s12666-019-01638-8.
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27. Selvan, R. V., Sathiya, P., Devakumaran, K., & Ravichandran, G. (2019). The effect of ligament size on the thermal fatigue life of 9Cr1Mo steel boiler header under cold, warm and hot starts. Engineering Failure Analysis, 97, 727-739.
28. Murthy, C. S., Mastanaiah, P., Sathiya, P., Sundarrajan, S., Haq, A. N., Babu, K. K., & Panneerselvam, K. (2019). Microstructure Evaluation on Friction Stir Welding of Cryorolled 2219 Aluminum Alloy. Journal of Testing and Evaluation, 47(4), 2827-2846.
29. Lakshmanan, V., Sathiya, P., & Arivazhagan, B. (2019). Mechanical properties characterisation of dissimilar joint of high-temperature materials using Thermo-Calc Classic (TCC) diagram analysis. Materials at High Temperatures, 36(3), 195-211.
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32. Vetrivelan, R., Sathiya, P., & Ravichandran, G. (2018). Experimental and numerical investigation on thermal fatigue behaviour of 9Cr 1Mo steel tubes. Engineering Failure Analysis, 84, 139-150.
33. Srinivasan, L., Kannan, T. D. B., Sathiya, P., & Biju, S. (2017). Effect of heat input, heat treatment on microstructure and mechanical properties of GTA welded aerospace material 15CDV6. Journal of Materials Research, 32(7), 1361-1366.