

## International Journals :

1. P. Sathiya, S. Aravindan and A. Noorul Haq, "Some experimental investigations on friction welded stainless steel joints", *Materials and Design*, Vol. 29, pp 1099-1109, 2008.- SCI Journal.
2. P.Sathiya, S.Aravindan and A.Noorul Haq "Optimization of friction welding parameters using evolutionary computational techniques", *Journal of Material Processing Technology*, Vol.209, pp 2576-2584, 2008.-SCI Journal.
3. P.Sathiya, S.Aravindan and A.Noorul Haq "Effect of friction welding parameters on mechanical and metallurgical properties of ferritic stainless steel", *International Journal of Advanced Manufacturing Technology*, Vol. 31, No. 11-12, pp 1076-1082, 2007. -SCI Journal.
4. P.Sathiya, S.Aravindan and A.Noorul Haq "Mechanical and metallurgical properties of friction welded AISI 304 austenitic stainless steel", *International Journal of Advanced Manufacturing Technology*, Vol. 26, pp 505-511, 2005.-SCI Journal.
5. P.Sathiya, S.Aravindan and A.Noorul Haq "Optimization for friction welding parameters with multiple performance characteristics", *International Journal of Mechanics and Materials in Design*, Vol. 3, No.4 pp 309-318, 2006.-SCI Journal.
6. P.Sathiya and Abdul Jaleel. M.Y, "Measurement of the bead profile and microstructural characterization of a CO2 laser welded AISI 904 L super austenitic stainless steel," *International Journal of Optics & Laser Technology*, 42(6), pp 960-968, 2010.-SCI Journal.
7. P.Sathiya, Abdul Jaleel. M.Y., Katherasan. D and Shanmugarajan.B. "Optimization of laser butt welding parameters with multiple Performance characteristics", *International Journal of Optics & Laser Technology* –43 (2011) 660–673. -SCI Journal.
8. P.Sathiya, and Abdul Jaleel. M.Y. "Influence of shielding gas mixtures on bead profile and Microstructural Characteristics of Super Austenitic Stainless Steel weldment by Laser Welding", *International Journal of Advanced Manufacturing Technology*, 54 (2011), 525-535.-SCI Journal.
9. P.Sathiya, K.Panneerselvam and R.Soundararajan, "Optimal design for laser beam butt welding process parameter using artificial neural networks and genetic algorithm for super austenitic stainless steel" *International Journal of Optics & Laser Technology*, 44 (2012) 1905-1914.-SCI Journal.
10. P.Sathiya, Mahendra Kumar Mishra and B.Shanmugarajan, "Effect of shielding gases on microstructure and mechanical properties of super austenitic stainless steel by hybrid welding" *International Journal of Materials and Design*, 33 (2012) 203–212.-SCI Journal.
11. P.Sathiya, K.Panneerselvam and M.Y.Abdul Jaleel, "Optimization of laser welding process parameters for super austenitic stainless steel using artificial neural networks and genetic algorithm" *International journal of Materials and Design*, 36 (2012) 490–498. -SCI Journal.
12. P.Sathiya, S.Aravindan, R.Soundararajan & A.Noorul Haq, "Effect Of Shielding Gases on Mechanical And Metallurgical Properties Of Duplex Stainless Steel Welds", *Journal of Material Science*, Vol.44, pp 114-121, 2009.-SCI Journal.

13. P.Sathiya, Abdul Jaleel. M.Y and Katherasan. D., "Optimizing the weld pool geometry in laser welding of AISI 904 L super austenitic stainless steel using multi-input/multi-output grey relational analysis," International Journal of Multidiscipline Modeling in Materials and Structures, 2011, vol.7, issue 1, 5-23.
14. P.Sathiya, Abdul Jaleel. M.Y., Katherasan. D and Shanmugarajan.B. "Optimization of laser butt welding parameters based on the orthogonal array with fuzzy logic and desirability approach", International Journal of structural and multidisciplinary optimization (2011) 44:499–515.-SCI Journal.
15. P.Sathiya, Abdul Jaleel. M.Y. and Katherasan. D. "Optimization of Welding Parameters for Laser Bead-on-plate welding using Taguchi method", International Journal Production Engineering Research & Development, Vol.4 No.5, pp 465-476, 2010.
16. P.Sathiya, and Abdul Jaleel. M.Y., "Grey-Based Taguchi Method for optimization of bead geometry in Laser Bead-on-Plate Welding". International Journal of Advanced production Engineering and Management, 5 (2010) 4, 225-234.
17. P.Sathiya, S.Aravindan, R.Jeyapaul, P.M. Ajith, and A.Noorul Haq, "Optimizing the weld bead characteristics of super austenitic stainless steel (904L) through grey-based Taguchi method", International Journal Multidiscipline modeling in materials and structures, Vol.6 No.2, pp 206-213, 2010.
18. P.Sathiya, Abdul Jaleel M.Y, and B.Shanmugarajan "Analysis of Metallurgical and mechanical properties of laser welded super austenitic stainless steel". International Journal of Engineering, Design and Technology, 2011, Vol. 10, Issue1.
19. P.Sathiya, N.Siva Shanmugam and T.Ramesh "Temperature distribution modeling of Friction Stir Spot Welding of AA 6061-T6 using Finite Element Technique", International Journal of Multidiscipline Modeling in Materials and Structures, Vol. 4 (1), pp 1-14, 2008.
20. P.Sathiya, S.Aravindan and A.Noorul Haq "Tensile Properties And Microstructural Studies Of Similar AISI 304 Austenitic And AISI 430 Ferritic Stainless Steels Joined By Friction Welding", International Journal of Multidiscipline Modeling in Materials and Structures, Vol. 4, No. 2, pp 141-154, 2008.
21. P.Sathiya, Ajesh Sudhakaran and R.Soundararajan, "Mechanical and Metallurgical investigation on Gas Metal Arc Welding of Super Austenitic Stainless Steel", International Journal of Mechanical and Materials Engineering, Vol.7, 2012, 107-112.
22. P. Sathiya, P. M. Ajith and R. Soundararajan, Genetic algorithm based optimization of the process parameters for gas metal arc welding of AISI 904 L stainless steel, Journal of Mechanical Science and Technology 27 (8) (2013) 1~9.-SCI Journal.
23. P.Sathiya, S.Aravindan and A.Noorul Haq "Optimization of friction joining parameters in processing of similar ferritic stainless steel joints by evolutionary computational techniques", International Journal of Manufacturing Science & Technology, Vol. 9 No. 2, pp 89-100, 2007.
24. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, "Investigation of the fatigue Behaviour of butt welded joints treated by ultrasonic peening process and compared with

fatigue life assessment standards”, International Journal of Advanced Manufacturing Technology, Vol. 40, pp 74-83, 2009.-SCI Journal.

25. Katherasan, D., P. Sathiya and A.Raja (2013) Shielding Gas Effects on Flux Cored Arc Welding of AISI 316L(N) Austenitic Stainless Steel Joints. International journal of Materials and Design, 45, 43-51.-SCI Journal.
26. P.Sathiya, S.Aravindan, P.M. Ajith, B.Arivazhagan and A. Noorul Haq , “Microstructural characteristics on bead on plate welding of AISI 904 L super austenitic stainless steel using Gas metal arc welding process”, International Journal of Engineering Science, and Technology, Vol. 2, No. 6, 2010, pp. 189-199.
27. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, “Comparison of thermal behavior of ASTM A 213 grade T-23 tubes under free expansion and constrained condition”, International Journal of Material Science, Vol.4 No.3, pp 349-364, 2009.
28. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, “Failure analysis of ASTM A 213 grade T-22 weld tube subjected to short-term overheating”, International Journal of Materials science, Vol.4 No.3, pp 365-380, 2009.
29. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, “Comparison of thermal fatigue behavior of ASTM A 213 grade T-92 base and weld tubes”, Journal of Mechanical Science and Technology, Vol.24 No.5, pp 1067-1076, 2010.-SCI Journal.
30. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, “Experimental investigation of thermal fatigue behaviour of header tube to stub welded joint in power plants”, International Journal of Materials research, Vol. 101, No.9, pp 1180-1186, 2010.-SCI Journal.
31. Katherasan, D., Jiju V Elias, P. Sathiya and A. Noorul Haq, Simulation and parameter Optimization of Flux Cored Arc Welding Using Artificial Neural Network and Particle Swarm Optimization Algorithm, International Journal of Intelligent Manufacturing (Springer). February 2014, Volume 25, Issue 1, pp 67-76.-SCI Journal.
32. Katherasan, D., Jiju V Elias, P. Sathiya and A. Noorul Haq (2012) Flux Cored Arc Welding Parameter Optimization Using Particle Swarm Optimization Algorithm, Procedia Engineering(Elsevier), 38, 3913-3926.
33. Katherasan, D., Jiju V Elias, P. Sathiya and A. Noorul Haq Modeling and Optimization of Flux Cored Arc Welding by Genetic Algorithm and Simulated Annealing Algorithm, Multidiscipline Modeling in Materials and Structures (Emerald) Vol.9, Issue 3, 2013, 307 - 326.
34. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, “An experimental study of thermal fatigue on ASTM A 213 grade T-23 tube”. International Journal on Materials, Manufacturing and Optimization, Vol.1 No.1, pp 13-20, 2010.
35. P.Sathiya, Swati, V.Manaswini, anubha Singh Bhaduria and Singdha Lakra, “Optimizing the gas metal arc welding parameter of super austenitic stainless steel by grey based Taguchi’s method”, International Journal of automated identification technology, Vol. 2 No.1, pp 33-39, 2010.

36. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, "An experimental study of thermal fatigue on ASTM A 213 grade T-23 steel tube", International Journal of scholarly research exchange, Vol. 2009, Article ID 309529, doi: 10.3814/2009/309529.
37. P.Sathiya, G.R.Jinu, and Navjot Singh, "Simulation of weld bead geometry in GTA welded Duplex Stainless Steels (DSS)", International Journal of scholarly research exchange, Vol. 2009, Article ID 324572, doi: 10.3814/2009/324572.
38. G.R.Jinu and P.Sathiya, "Failure analysis on T92 steel tube and compared with predicted number of cycles to failure using coffin-manson equation" International Journal of Engineering Science and Technology, Vol. 2(10), 2010, 5017-5033.
39. A.P.Abhilash and P.Sathiya, "Finite element simulation of laser welding of 904 L super austenitic stainless steel" An International Journal of Minerals, Metals and Materials Engineering (TIIM). August–October 2011, 64(4–5): 409–416. SCI Journal.
40. P.Sathiya, "Gas metal arc bead on plate welding parameter optimization using grey based taguchi technique" International Journal on Materials, Manufacturing and Optimization- 2 (1), January-June 2011, pp. 19– 25.
41. D.Katherasan, Madana Sashikant, S.Sandeep Bhat, P.Sathiya, "Flux Cored Arc Welding Parameter Optimization of AISI 316L (N) Austenitic Stainless Steel" International Journal of Industrial and Manufacturing Engineering, 6 (2012) 26-33.
42. Katherasan, D., Sameer Srivastava and P. Sathiya (2013) Process parameters optimization of AISI 316L(N) weld joints produced using flux cored arc welding process, An International Journal of Minerals, Metals and Materials Engineering (TIIM), April 2013, 66 (2), 123-132. - SCI Journal.
43. S. Ramesh Kumar, B. Ravisankar, P. Sathiya, V.Thomas Paul, M.Vijayalakshmi, Equal Channel Angular Pressing of an Aluminium Magnesium Alloy at Room Temperature, An International Journal of Minerals, Metals and Materials Engineering (TIIM), 67 (4), 2014, pp 477-484.-SCI Journal.
44. P.M.Ajith, P.Sathiya, KondaiahGudimetla and B.Ravishankar, Mechanical, Metallurgical Characteristics and Corrosion Properties of Equal Channel Angular Pressing of Duplex Stainless Steel, Advanced Materials Research, Vol. 717 (2013) pp 9-14.
45. T.Udayakumar, K.Raja, Afsal Husain T.M and P.Sathiya, Prediction and optimization of friction welding parameters for super duplex stainless steel (UNS S32760) joints, Materials and Design, 53 (2014) 226-235.-SCI Journal.
46. T.Udayakumar, K.Raja, Tanksale Abhijit A. and P.Sathiya, Experimental investigation on mechanical and metallurgical properties of super duplex stainless steel joints using friction welding process, Journal of Manufacturing Processes,15, 2013, 558-571-SCI Journal.
47. K.Balamurugan, A.P. Abhilash, P. Sathiya and A. Naveen Sait, " Artificial neural network simulation and particle swarm optimisation of friction welding parameters of 904l super austenitic stainless steel" International Journal of Multidiscipline Modelling in Materials and Structures, Vol.10, Issue 2, 2014, pp. 250-254.
48. K.Balamurugan, Jiju V Elias, P. Sathiya and A. Naveen Sait, Optimization of Friction Welding Parameters for AISI 904L Super Austenitic Stainless Steel by Evolutionary

Computational Techniques, Journal of Materials Testing, Vol. 56, No. 3, 2014, pp. 245-250.-SCI Journal.

49. 49. Shanjeevi.C, Satish Kumar.S, Sathiya.P, Evaluation of Mechanical and Metallurgical properties of dissimilar materials by friction welding, Procedia Engineering 64 ( 2013 ) 1514 – 1523.
50. K.Balamurugan, Mahendra Kumar Mishra, P. Sathiya and A. Naveen Sait, Weldability Studies and Parameter Optimization of AISI 904L Super Austenitic Stainless Steel Using Friction Welding, Materials Research, vol.17, n.4, p.908-919, 2014.-SCI Journal.
51. Shanjeevi.C Satish Kumar.S, Sathiya.P, Multi-objective optimization of friction welding parameters in AISI 304L austenitic stainless steel to copper joints" Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture-Volume: 230 issue: 3, 2016, page(s): 449-457-SCI.
52. 52.P.M.Ajith, Afsal Husain T.M, P. Sathiya and S.Aravindan, Multi objective optimization of continuous drive friction welding process parameters using response surface methodology with intelligent optimization algorithm, Journal Of Iron And Steel Research, International,2015, 22(10): 954-960.-SCI Journal.
53. Puthuparambil Madhavan AJITH, Paulraj SATHIYA, Sivanandam ARAVINDAN, Characterization of microstructure, toughness, and chemical composition of friction-welded joints of UNS S32205 duplex stainless steel, Friction 2 (1): 82–91 (2014).
54. P. M. Ajith, P. Sathiya, S. Aravindan, Experimental Investigation on Friction Welding of UNS S32205 Duplex Stainless Steel, Acta Metallurgica Sinica (English Letters), Volume 27, Issue 6 (2014), Page 995-1007.-SCI Journal.
55. M. Mohammed Asif, Kulkarni Anup Shrikrishna, P.Sathiya and Sunkulp Goel, The impact of heat input on the strength, toughness, microhardness, microstructure and corrosion aspects of friction welded duplex stainless steel joints, Journal of Manufacturing Processes, 18 (2015) 92–106- SCI Journal.
56. Srirangan Arun Kumar , Paulraj Sathiya, Experimental investigation on A-TIG welding process of Incoloy 800H, International Journal of Materials and Manufacturing Processes, 30, (9), 2015, 1154-1159.-SCI Journal.
57. K. Anand, Birendra Kumar Barik, K.Tamilmannan and P.Sathiya, Artificial neural network modeling studies to predict the friction welding process parameters of Incoloy 800H joints, Engineering Science and Technology: An International Journal (Elsevier), 18 (2015) 394-407.
58. K. Anand, Rishabh Shrivastava, K.Tamilmannan, P. Sathiya, A Comparative Study of Artificial Neural Network and Response Surface Methodology for Optimization of friction welding of Incoloy 800 H- Acta Metallurgica Sinica (English Letters), 2015, 28(7), 892–902-SCI Journal.
59. P.M.Ajith, Birendra Kumar Barik, P. Sathiya and S.Aravindan, Multiobjective optimization of friction welding of UNS S32205 duplex stainless steel - Journal of Defence Technology (Elsevier), Volume 11, Issue 2, June 2015, Pages 157–165.

60. R. Vetri Selvan, P.Sathiya, G.Ravichandran, Characterisation of transient out- of- plane distortion of nipple welding with header component, *Journal of Manufacturing Processes* (Elsevier) 19 (2015) 67-72.-SCI Journal.
61. 61.Shanjeevi.C, Satish Kumar.S, Sathiya.P, Santonu Gorai, Optimization of Friction Welding in dissimilar materials through Taguchi based Grey Relational Analysis, *International Journal of Applied Engineering Research*, Volume 10, Number 8 (2015), 5990-5995.
62. Shanjeevi.C, Satish Kumar.S, Sathiya.P, Jose Paul, Optimization of Friction Welding in dissimilar materials through Taguchi based Grey Relational Analysis, *Applied Mechanics and Materials* Vol. 766-767 (2015) pp 884-889.
63. Shanjeevi C, Satish Kumar S and Sathiya P, Studies on impact toughness and fracture analysis of austenitic stainless steel and copper joints by friction welding, *Journal of Manufacturing Engineering*, June, 2014, Vol. 9, Issue. 2, pp 105-109.
64. 64. Arun Kumar Srirangan, Sathiya Paulraj, Rishabh Shrivastava, Optimisation of process parameters for laser welding on Incoloy 800HT using TOPSIS, *International Journal of Applied Engineering Research*, ISSN 0973-4562 Vol. 10 No.24 (2015).
65. Mohammed Asif.M, Kulkarni Anup Shrikrishana, P.Sathiya, Finite element modelling and characterization of friction welding on UNS S31803 duplex stainless steel joints, *Engineering Science and Technology: An International Journal* (Elsevier), 18 (2015) 704-712.
66. S.Arunkumar, P.Rangarajan, K. Devakumaran and P. Sathiya, Comparative studies on transverse shrinkage, mechanical and metallurgical properties of aa2219 aluminium weld joints by gas tungsten arc and gas metal arc welding processes, *Journal of Defence Technology* (Elsevier), 11 (2015) 262-268.
67. Mohammed Asif.M, Kulkarni Anup Shrikrishna, P.Sathiya, 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.
68. 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.
69. Mohammed Asif. M, Anup Shrikrishna Kulkarni, Sathiya.P, Optimization of Process Parameters of Friction Welding of UNS S31803 Duplex Stainless Steels Joints, *International Journal of Advances in Manufacturing* (Springer) - March 2016, Volume 4, Issue 1, pp 55-65.
70. M.Chellappan, K.Lingadurai and P.Sathiya, Effect of flux on microstructure and mechanical properties of super martensitic stainless steel using activated tungsten inert gas welding process, *International Journal of Applied Engineering Research*, Volume 10, Number 22 (2015) pp 43097-43102.
71. Mohammed Asif.M, Kulkarni Anup Shrikrishna, P.Sathiya, Metallurgical and corrosion characterization of post weld heat treated duplex stainless steel (UNS S31803) joints by

friction welding process, International Journal of Surface Review and Letters-Vol. 23, Issue 03, 2016, pp. 1650013-1650027-SCI Journal.

72. Deepan Bharathi Kannan.T, Ramesh.T, Sathiya.P, A review of similar and dissimilar micro joining of nitinol, JOM (The Journal of The Minerals, Metals & Materials Society (TMS))- April 2016, Volume 68, Issue 4, pp 1227–1245-SCI Journal.
73. K.Anand, S.Arun Kumar, K.Tamilmannan, P.Sathiya and B.Arivazhagan, Metallurgical characterizations and mechanical properties on friction welding of Incoloy 800 H joints, Journal of Materials Research (Cambridge University Press), 31(14), 2016, 2173-2185. - SCI Journal.
74. 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.
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).
76. 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.
77. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, Mastanaiah P, C.V. Srinivasa Murthy, Experimental Investigation on Friction Stir Welding of Cryorolled AA2219 Aluminium Alloy Joints, International Journal of Surface Review and Letters, Vol. 24, No. 1 (2017) 1750001 -1750018. SCI Journal.
78. 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..
79. S.Arunkumar, Kulkarni Anup S, P. Sathiya, K.Devakumaran and S.Ramesh Kumar, Transient Finite Element Simulation and microstructure evolution of AA 2219 weld joint using gas tungsten arc welding process, International journal of Advances in Science and Technology Research Journal, Vol. 10, No.31, 2016, pp 64-73. SCI Journal.
80. 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.
81. 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.
82. Byju John, Sathiya P, Jolly Mathew, The role of shielding gas on mechanical, metallurgical and corrosion properties of corten steel welded joints of railway coaches using GMAW, International journal of Advances in Science and Technology Research Journal, 10 (32), 2016, 1-13. SCI Journal.

83. S.P. Sridhar, S. Arun Kumar, P. Sathiya, A study on the effect of different activating flux on A-TIG welding process of Incoloy 800H, *Advances in Materials Science*, Vol. 16, No. 3 (49), 2016, pp. 26-37. *SCI Journal*.
84. Deepan Bharathi Kannan.T, Ramesh.T, Sathiya.P, Application of artificial neural network modelling for optimization of YB: YAG laser welding of NiTiNOL, *An International Journal of Minerals, Metals and Materials Engineering (TIIM)*, -Vol. 70, Issue 7, 2017, pp. 1763-1771. -*SCI Journal*.
85. T.Prabakaran, M.Prabhakar, P.Sathiya, Shielding gas and heat input effects on the mechanical and metallurgical characterization of gas metal arc welding of super martensitic stainless steel (12Cr5Ni2Mo) joints, *International Journal of Surface Review and Letters*, Vol.24, No. 5, 2017, 1750069-1750087.- *SCI Journal*.
86. Deepan Bharathi Kannan.T, Sathiya.P, Ramesh. T, Experimental investigation and characterization of laser welded nitinol shape memory alloys, *Journal of Manufacturing Processes (Elsevier)*, 25 (2017), 253-261.-*SCI Journal*.
87. R.Karthikeyan, M. Saravanan, B.Singaravel and P. Sathiya, Effect of heat input and post weld heat treatment on the mechanical and metallurgical characteristics of laser welded maraging steel joints, *International Journal of Surface Review and Letters*, Vol. 24, No.7, 2017, pp. 1750102-1750115. *SCI Journal*.
88. L.Srinivasan, T.Deepan Barathi Kannan and P.Sathiya, S.Biju, Effect of heat input, heat treatment on microstructure and mechanical properties of GTA welded aerospace material 15CDV6, *Journal of Materials Research (Cambridge University Press)*, Vol.32, Issue 7, 2017, pp 1361-1366. -*SCI Journal*.
89. T. Deepan Bharathi Kannan, T. Pavani priya, P. Sathiya, T. Ramesh, *Metallurgical Aspects and Optimisation of Yb: YAG Laser Welded NiTinol Shape Memory Alloy*, *Material Today Proceedings (Elsevier)*, Volume 4, Issue 2, Part A, 2017, Pages 1268–1276.-*SCI Journal*.
90. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarajan, 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*.
91. 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*.
92. Deepan Bharathi Kannan Thangaraju Abhijeet R. Shegokar T. Ramesh, Sathiya Paulraj, *Modelling and Experimental Investigation on Laser Welding of Nitinol*, *Emerging Material Research*, Volume 6 Issue 1, January, 2017, pp. 89-99 -*SCI Journal*.
93. Mohammed Asif. M, Kulkarni Anup Shrikrishna, P.Sathiya, A comparative analysis of metallurgical and mechanical properties of friction welded and post weld heat treated (oil quenched) duplex stainless steel joints, *Journal of Materials at High Temperatures*, Vol. 35, Issue 4, 2018, 309-315.-*SCI Journal*.



94. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, P.Mastanaiah, C.V. Srinivasa Murthy, Corrosion properties of cryorolled AA2219 friction stir welded joints using different tool pin profiles, *International Journal of Surface Review and Letters*- -Vol. 25, No. 5, 2018, pp1850071-1850086-SCI Journal.
95. 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.
96. 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.
97. 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.
98. T. Deepan Bharathi Kannan, Abhijeet R Shegokhar, P. Sathiya, T. Ramesh, Parameter Design and Analysis in Laser Welding Of NiTiNol Shape Memory Alloy, *Material Today Proceedings* (Elsevier),4, 2017, 8883-8891- SCI Journal.
99. 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.
100. K. Kamal Babu, K. Panneerselvam, P. Sathiya, A. Noorul Haq, S. Sundarrajan, P.Mastanaiah, C.V. Srinivasa Murthy, Influences of metastable  $\theta''$ ,  $\theta'$  and stable  $\theta$  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.
101. 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
102. 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.
103. 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.
104. Evangeline, A., & PAULRAJ, S. (2019). Cold Metal Arc Transfer (CMT) metal deposition of Inconel 625 superalloy on 316L austenitic stainless steel: microstructural evaluation, corrosion and wear resistance properties. *Materials Research Express*. Volume (6) Issue(6) DOI:10.1088/2053-1591/ab0a10

105. Evangeline, A., & Sathiya, P. (2019). Dissimilar Cladding of Ni–Cr–Mo Superalloy over 316L Austenitic Stainless Steel: Morphologies and Mechanical Properties. *Metals and Materials International*, 1-18.
106. DEEPAN BHARATHI KANNAN, T., Tutta, G., Sathiya, P., & Ramesh, T. (2019). Post Weld Heat Treatment of NiTiNol Shape Memory Alloy Using Laser Power Source. *Surface Review and Letters*, 1950160.
107. Evangeline, A., & Sathiya, P. (2019). Structure–property relationships of Inconel 625 cladding on AISI 316L substrate produced by hot wire (HW) TIG metal deposition technique. *Materials Research Express*, 6(10), 106539.
108. Lakshmanan, V., & Sathiya, P. Microstructure and Creep Behavior Property of Dissimilar Joints Between Incoloy 800HT and P91 Steel. *Transactions of the Indian Institute of Metals*, 1-14.
109. Shanmugarajan, B., Sathiya, P., & Buvanashakaran, G. (2019). Effect of Shielding Gases in Autogenous Laser Welding of P92 Material. *Transactions of the Indian Institute of Metals*, 72(7), 1707-1720.
110. 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.
111. 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.
112. Kannan, T. D. B., Pegada, R., Sathiya, P., & Ramesh, T. (2018). A comparison of the effect of different heat treatment processes on laser-welded NiTiNol sheets. *Journal of the Brazilian Society of Mechanical Sciences and Engineering*, 40(12), 562.
113. 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.
114. 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.
115. Umar, M., & Sathiya, P. (2018). Effect of Pulse Duration on Corrosion and Impression Creep Properties of AA5083-H111 Al–Mg Alloy Weldments Processed by P-GTAW. *Advanced Engineering Materials*, 20(6), 1701147.
116. Vellaichamy, L., Gerard, P. B. T., & Paulraj, S. (2018). Mechanical and Metallurgical Characterization of Laser Welding on P91 Ferritic Steel and Incoloy 800HT Dissimilar Joints. *Materials Research*, 21(2).
117. Babu, K. K., Panneerselvam, K., Sathiya, P., Haq, A. N., Sundarrajan, S., Mastanaiah, P., & Murthy, C. S. (2018). Influences of metastable  $\theta''$ ,  $\theta'$  and stable  $\theta$  intermetallics formed during cryorolling and friction stir welding process on AA2219. *Journal of Alloys and Compounds*, 732, 624-629.
118. 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.
119. Deepan Bharathi Kannan, T., Shegokar, A. R., Ramesh, T., & Sathiya, P. (2017). Modelling and experimental investigation on laser welding of nitinol. *Emerging Materials Research*, 6(1), 89-99.

120. 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.
121. Kannan, T. D. B., Ramesh, T., & Sathiya, P. (2017). Application of artificial neural network modelling for optimization of Yb: YAG laser welding of Nitinol. *Transactions of the Indian Institute of Metals*, 70(7), 1763-1771.

#### **National Journals :**

1. D.Ananthapadmanaban, P.Sathiya, K.Palanikumar, V.Seshagiri Rao, 'Multi response optimization of friction welding parameters on MS-SS using grey relational analysis in the taguchi method', *National Journal of Manufacturing Technology & Management*, Vol. 5, No.3 pp 49-53, 2011.
2. Benjamin Joseph, D.Katherasan, P.Sathiya, and C.V. Srinivasa Murthy Weld metal characterization of 316L(N) austenitic stainless steel by electron beam welding, *International Journal of Engineering, Science and Technology*, Vol. 4 (2) (2012), 169-176.
3. G.R.Jinu, P.Sathiya, G.Ravichandran and A.Rathinam, "Comparision of predicted and experimental thermal fatigue lives of T-91 steel tube", *Journal of Manufacturing Engineering*, Vol. 4(2), (2009), pp 241.
4. Shanjeevi.C Satish Kumar.S, Sathiya.P, Studies on impact toughness and fracture analysis of austenitic stainless steel and copper joints by friction welding, *Journal of manufacturing Engineering*, June 2014, Vol. 9, Issue 2, pp 105-109.
5. Shanjeevi.C, Satish Kumar.S, Sathiya.P, Optimizing the parameter of friction welding in dissimilar material using response surface method, *National Journal on Advances in Building Sciences & Mechanics*, Vol.. 5 No. 1 April 2014, 1-7.
6. B.Shanmugarajan, Ramavath Bheekya Naik, G.Vimalan, P.Sathiya, G.Buvashekar, Physical simulation studies on laser weld heat affected zone of P92 material, *Welding Research Institute (WRI) Journal* Vol. 36 No. 2, April-June 2015, pp 16-23.
7. B.Shanmugarajan, G.Buvashekar and P.Sathiya, Weldability of 9Cr-Mo steels-A literature Review, *Welding Research Institute (WRI) Journal* Vol. 37 No. 4, Oct-Dec 2016, pp 18-27.