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### **PAPERS PUBLISHED DURING LAST FIVE YEARS IN SCOPUS INDEXED JOURNALS:**

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#### **2020 (As on 18th April 2020)**

- 1) Arun Negemiya, A., Rajakumar, S., Balasubramanian, V. Influence of high temperature diffusion bonding process parameters on mechanical and metallurgical characteristics of nickel superalloy to martensitic stainless steel Microscopy Research and Technique 83(3), pp. 318-328, 2020
- 2) Vignesh Kumar, M., Padmanaban, G., Balasubramanian, V. Role of tool pin profiles on wear characteristics of friction stir processed magnesium alloy ZK60/silicon carbide surface composites, Materialwissenschaft und Werkstofftechnik 51(2), pp. 140-152, 2020
- 3) Ramaswamy, A., Malarvizhi, S., Balasubramanian, V. Influence of metal transfer modes and postweld heat treatment on tensile properties of gas metal arc-welded AA6061-T6 aluminum alloy joints, Materials Performance and Characterization 9(1), pp. 9-24, 2020
- 4) Ramaswamy, A., Malarvizhi, S., Balasubramanian, V. Post-weld heat treatment effects on the tensile properties of cold metal arc welded AA 6061-T6 aluminum joints, Materialprüfung/Materials Testing 62(1), pp. 69-76, 2020
- 5) Rajarajan, C., Sivaraj, P., Balasubramanian, V. Microstructural analysis of weld nugget properties on resistance spot-welded advance high strength dual phase ( $\alpha+\alpha'$ ) steel joints, Materials Research Express 7(1), 016555, 2020
- 6) Sonar, T., Balasubramanian, V., Malarvizhi, S., Venkateswaran, T., Sivakumar, D. Effect of Delta Current and Delta Current Frequency on tensile properties and microstructure of Gas Tungsten Constricted Arc (GTCA) welded Inconel 718 sheets, Journal of the Mechanical Behavior of Materials 28(1), pp. 186-200, 2020
- 7) Vaithiyanathan, V., Balasubramanian, V., Malarvizhi, S., Petley, V., Verma, S. Combined Effect of Gas Tungsten Arc Welding Process Variants and Post-Weld Heat Treatment on Tensile Properties and Microstructural Characteristics of Ti-6Al-4V Alloy Joints, Metallography, Microstructure, and Analysis Article in Press, 2020
- 8) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Mechanical properties and microstructural characteristics of friction stir welded AA2014-T6 aluminium alloy joints Journal of the Mechanical Behavior of Materials 28(1), pp. 169-185, 2019
- 9) Vinoth Kumar, M., Balasubramanian, V. Effect of current pulsing on super 304HCu weld joints, World Journal of Engineering 16(6), pp. 814-822, 2019
- 10) Arun Negemiya, A., Rajakumar, S., Balasubramanian, V. Optimization of Ti-6Al-4V/AISI304 diffusion bonding process parameters using RSM and PSO algorithm Multidiscipline Modeling in Materials and Structures 15(6), pp. 1037-1052, 2019

- 11) Vignesh Kumar, M., Padamanaban, G., Balasubramanian, V. Effect of tool pin profile on microstructure and hardness of magnesium alloy ZK60/ SiCp surface composites fabricated by friction stir processing, *Journal of Testing and Evaluation* 47(6), 2019
- 12) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Evaluation of load-carrying capabilities of friction stir welded, TIG welded and riveted joints of AA2014-T6 aluminium alloy, *Aircraft Engineering and Aerospace Technology* 91(9), pp. 1238-1244, 2019
- 13) Sivamaran, V., Balasubramanian, V., Gopalakrishnan, M., Viswabaskaran, V., Gourav Rao, A. Identification of appropriate catalyst system for the growth of multi-walled carbon nanotubes via catalytic chemical vapor deposition process in a single step batch technique, *Materials Research Express* 6(10), 105620, 2019
- 14) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Effect of Post Weld Heat Treatment on Strength and Microstructure of Friction Stir Welded Lap Joints of AA2014-T6 Aluminum Alloy, *Metal Science and Heat Treatment*, 61(5-6), pp. 305-310, 2019
- 15) RAJENDRAN, C., SRINIVASAN, K., BALASUBRAMANIAN, V., BALAJI, H., SELVARAJ, P. Effect of tool tilt angle on strength and microstructural characteristics of friction stir welded lap joints of AA2014-T6 aluminum alloy, *Transactions of Nonferrous Metals Society of China (English Edition)* 29(9), pp. 1824-1835, 2019
- 16) Vaithianathan, V., Balasubramanian, V., Malarvizhi, S., Vijay, P., A Gourav, R. High temperature tensile properties and microstructural characterization of gas tungsten constricted arc welded Ti-6Al-4V alloy, *Materials Research Express* 6(9), 0965D6, 2019
- 17) Vasu, K., Chelladurai, H., Ramaswamy, A., Malarvizhi, S., Balasubramanian, V. Effect of fusion welding processes on tensile properties of armor grade, high thickness, non-heat treatable aluminium alloy joints, *Defence Technology* 15(3), pp. 353-362, 2019
- 18) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Identifying combination of friction stir welding parameters to maximize strength of lap joints of AA2014-T6 aluminium alloy, *Australian Journal of Mechanical Engineering* 17(2), pp. 64-75, 2019
- 19) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Data set on prediction of friction stir welding parameters to achieve maximum strength of AA2014-T6 aluminium alloy joints, *Data in Brief* 23, 103735, 2019
- 20) Arun Negemiya, A., Rajakumar, S., Balasubramanian, V. High-temperature diffusion bonding of austenitic stainless steel to titanium dissimilar joints, *Materials Research Express* 6(6), 066572, 2019
- 21) Sivaraj, P., Hariprasath, P., Rajarajan, C., Balasubramanian, V. Analysis of grain refining and subsequent coarsening along on adjacent zone of friction stir welded armour grade aluminium alloy joints, *Materials Research Express* 6(6), 066566, 2019
- 22) Vigneshkumar, M., Padmanaban, G., Balasubramanian, V. Influence of Tool Tilt Angle on the Formation of Friction Stir Processing Zone in Cast Magnesium Alloy ZK60/SiCp Surface, composites, Metallography, Microstructure, and Analysis 8(1), pp. 58-66, 2019
- 23) Senthilkumar, J., Suresh Mohan Kumar, P., Balasubramanian, V. Post weld heat treatment of continuous drive friction welded AA6061/SiC/graphite hybrid composites - An investigation, *Materials Research Express* 6(12), 1265E1, 2019
- 24) Ramaswamy, A., Malarvizhi, S., Balasubramanian, V. Influence of post weld heat treatment on tensile properties of cold metal transfer (CMT) arc welded AA6061-T6 aluminium alloy joints, *Journal of the Mechanical Behavior of Materials* 28(1), pp. 135-145, 2019

- 25) Balakrishnan, M., Balasubramanian, V., Madhusudhan Reddy, G. Microstructural analysis on ballistic tested armour steel joints fabricated using low hydrogen ferritic consumables for capping pass Key Engineering Materials 812 KEM, pp. 1-8, 2019
- 26) Bakkiyaraj, M., Palanisamy, P., Balasubramanian, V. Evaluating the tensile strength of friction welded (AA6061 & AA7075-T6) dissimilar joints by using response surface methodology Materials Research Express 6(8), 086527, 2019
- 27) Sivaraj, P., Vinoth Kumar, M., Balasubramanian, V. Microstructural Characteristics and Tensile Properties of Linear Friction-Welded AA7075 Aluminum Alloy Joints, Lecture Notes in Mechanical Engineering pp. 467-476, 2019
- 28) Vignesh, S., Balasubramanian, V., Sridhar, K., Thirumalaikumarasamy, D. Slurry Erosion Behavior of HVOF-Sprayed Amorphous Coating on Stainless Steel, Metallography, Microstructure, and Analysis Article in Press, 2019
- 29) GnanaSekaran, S., Padmanaban, G., Balasubramanian, V., Kumar, H., Albert, S.K. Laser hardfacing of Colmonoy-5 (Ni-Cr-Si-B-C) powder onto 316LN austenitic stainless steel: Effect of powder feed rate on microstructure, mechanical properties and tribological behavior, Lasers in Engineering, 42(4-6), pp. 283-302, 2019
- 30) Sree Sabari, S., Binoj, J.S., Muthu, F.X., Malarvizhi, S., Balasubramanian, V. Influence of Tool Rotation Speed on Soundness of Water-Cooled Friction Stir Welded Armour Grade Al-Cu Joint, Lecture Notes in Mechanical Engineering pp. 557-567, 2019
- 31) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V., Kumar, H., Albert, S.K. Correlation between Travel Speed, Microstructure, Mechanical Properties and Wear Characteristics of Ni-Based Hardfaced Deposits over 316LN Austenitic Stainless Steel, High Temperature Materials and Processes 38(2019), pp. 16-29, 2019.
- 32) Vijayavel, P., Balasubramanian, V. Effect of pin volume ratio on wear behaviour of friction stir processed LM25AA-5%SiCp metal matrix composites Alexandria Engineering Journal 57(4), pp. 2939-2950, 2018.
- 33) Magudeeswaran, G., Balasubramanian, V., Madhusudan Reddy, G. Metallurgical characteristics of armour steel welded joints used for combat vehicle construction Defence Technology 14(5), pp. 590-606, 2018.
- 34) Ragu Nathan, S., Balasubramanian, V., Malarvizhi, S., Rao, A.G. Effect of D/TP ratio on stir zone characteristics of friction stir-welded high-strength low-alloy steel plates, Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications 232(10), pp. 829-840, 2018.
- 35) Vigneshkumar, M., Padmanaban, G., Balasubramanian, V. Influence of tool rotational speed on the formation of friction stir processing zone in cast Zk60/SiCp magnesium alloy surface composites. Materials Performance and Characterization 7(6), 2018.
- 36) Vaithiyanathan, V., Balasubramanian, V., Malarvizhi, S., Petley, V., Verma, S. Identification of optimized gas tungsten constricted arc welding parameters to attain minimum fusion zone area in Ti-6Al-4V alloy sheets used in aero engine components, Journal of Advanced Microscopy Research, 13(3), pp. 354-362, 2018.
- 37) Kumar, M.V., Balasubramanian, V. Hot tensile properties and constant load stress corrosion cracking test data of autogenous weld joints of super 304H Cu stainless steel in boiling MgCl<sub>2</sub> solution, 2018, Data in Brief, 18, pp. 102-110
- 38) Vijayavel, P., Balasubramanian, V., Rajkumar, I. Effect of Tool Traverse Speed on Strength, Hardness, and Ductility of Friction-Stir-Processed LM25AA-5% SiCp Metal Matrix Composites, Metallography, Microstructure, and Analysis 7(3), pp. 321-333, 2018
- 39) Sivaraja, P., Kanagarajan, D., Balasubramanian, V. Fracture toughness properties of friction stir welded AA 7075-T651 aluminium alloy joints, Journal of Advanced Microscopy Research 13(2), pp. 190-197, 2018

- 40) Rajarajan, C., Sivaraj, P., Balasubramanian, V., Microstructural characteristics and load carrying capability of resistance spot welded dual phase (DP800) steel joints, *Journal of Advanced Microscopy Research* 13(2), pp. 198-203
- 41) Sivaraj, P., Ahamed Bahavudeen, J., Balasubramanian, V. Optimizing linear friction welding parameters to attain maximum tensile strength in aluminum alloy joints, *Journal of Advanced Microscopy Research*, 13(2), pp. 204-210
- 42) Sivamaran, V., Balasubramanian, V., Gopalakrishnan, M., Viswabaskaran, V., Gouravrao, A. Optimizing chemical vapor deposition parameters to attain minimum diameter carbon nano tubes by response surface methodology, *Journal of Advanced Microscopy Research* 13(2), pp. 181-189, 2018
- 43) Uthayakumar, M., Balasubramanian, V., Abdul Rani, A.M., Hadzima, B. Effects of Welding on the Fatigue Behaviour of Commercial Aluminum AA-1100 Joints, *IOP Conference Series: Materials Science and Engineering* 346(1), 012-065, 2018
- 44) Vignesh Kumar, M., Padmanaban, G., Balasubramanian, V. Sliding Wear Characteristics of Friction Stir Processed CAST ZK60 Magnesium Alloy Under Different Applied Loads, *Transactions of the Indian Institute of Metals*, 71(5), pp. 1223-1230, 2018
- 45) Karthick, K., Malarvizhi, S., Balasubramanian, V., Gourav Rao, A. Tensile Properties Variation Across the Dissimilar Metal Weld Joint Between Modified 9Cr-1Mo Ferritic Steel and 316LN Stainless Steel at RT and 550 °C, *Metallography, Microstructure, and Analysis* 7(2), pp. 209-221
- 46) Rajakumar, S., Balasubramanian, V. Corrosion performance of friction surfaced nickel aluminium bronze (NAB) alloy under erosion corrosion and salt fog environment, *Corrosion Engineering Science and Technology*, 53, pp. 21-26, 2018
- 47) Arun Negemiya, A., Rajakumar, S., Balasubramanian, V. A study on the interface microstructure of diffusion bonded aisi410/su718 dissimilar joints, *Journal of Advanced Microscopy Research*, 13(1), pp. 61-64, 2018
- 48) Bharathi, S.R.S., Rajeshkumar, R., Rose, A.R., Balasubramanian, V. Mechanical Properties and Microstructural Characteristics of Friction Welded Dissimilar Joints of Aluminium Alloys, *Transactions of the Indian Institute of Metals* 71(1), pp. 91-97, 2018
- 49) Sonar, T., Lomte, S., Gogte, C., Balasubramanian, V. Minimization of Distortion in Heat Treated AISI D2 Tool Steel: Mechanism and Distortion Analysis, *Procedia Manufacturing* 20, pp. 113-118, 2018
- 50) Magudeeswaran, G., Balasubramanian, V., Madhusudan Reddy, G. Metallurgical characteristics of armour steel welded joints used for combat vehicle construction, *.Defence Technology*. 2018
- 51) Bharathi, S.R.S., Rajeshkumar, R., Rose, A.R., Balasubramanian, V. Mechanical Properties and Microstructural Characteristics of Friction Welded Dissimilar Joints of Aluminium Alloys, *Materials Today: Proceedings* 5(2), pp. 6755-6763
- 52) Prabhuraj, P., Rajakumar, S., Balasubramanian, V. Optimising salt fog corrosion parameters to minimising the corrosion rate of AA7075-T651 alloy, *Materials Today: Proceedings* 5(6), pp. 14573-14582, 2018
- 53) Valasamudram, V., Selvamani, S.T., Vigneshwar, M., Balasubramanian, V., Jayaperumal, D. Tensile, Impact, Wear and Corrosion Behavior on Conventionally Melted Nitrogen Alloyed Martensitic Stainless Steel in hot forged, hardened and tempered conditions, *Materials Today: Proceedings* 5(2), pp. 8338-8347, 2018
- 54) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Comparative evaluation of tensile properties and microstructural behaviour of friction stir welded butt and lap joints of AA2014-T6 aluminum alloy, *International Journal of Pure and Applied Mathematics* 119(12), pp. 2079-2090, 2018

- 55) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V., Kumar, H., Albert, S.K. Correlation between Travel Speed, Microstructure, Mechanical Properties and Wear Characteristics of Ni-Based Hardfaced Deposits over 316LN Austenitic Stainless Steel, *High Temperature Materials and Processes* 2018
- 56) Prabhuraj, P., Rajakumar, S., Lakshminarayanan, A.K., Balasubramanian, V. Evaluating stress corrosion cracking behaviour of high strength AA7075-T651 aluminium alloy, *Journal of the Mechanical Behavior of Materials* 26(3-4), pp. 105-112, 2018
- 57) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V., Kumar, H., Albert, S.K. Optimizing the laser parameters to attain maximum hardness in nickel based hardfacing surfaces, *Journal of the Mechanical Behavior of Materials*, 26(3-4), pp. 113-125, 2018.
- 58) Karthick, K., Malarvizhi, S., Balasubramanian, V. Evolution of microstructure at the interface region between parent metal (modified 9Cr-1Mo steel) and buttering layer (alloy 182) in dissimilar joints, *Journal of Advanced Microscopy Research* 12(3), pp. 167-172, 2017
- 59) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V. Effect of Laser Power on Metallurgical, Mechanical and Tribological Characteristics of Hardfaced Surfaces of Nickel-Based Alloy, *Lasers in Manufacturing and Materials Processing* 4(4), pp. 178-192, 2017
- 60) Gnanasekaran, S., Padmanaban, G., Balasubramanian, V. Effect of laser hardfacing process parameters on microstructural characteristics and microhardness of Ni-Cr-B-Si-C deposit on austenitic stainless steel substrate, *Journal of Advanced Microscopy Research* 12(3), pp. 173-181, 2017
- 61) Vignesh, S., Shanmugam, K., Balasubramanian, V., Sridhar, K., Kamal Jayaraj, R. Establishing empirical relationship to predict the corrosion rate of HVOF sprayed iron based amorphous metallic coating on 316 stainless steel, *Journal of Advanced Microscopy Research* 12(3), pp. 182-189, 2017
- 62) Babu, N., Karunakaran, N., Balasubramanian, V. A study to estimate the tensile strength of friction stir welded AA 5059 aluminium alloy joints, *International Journal of Advanced Manufacturing Technology* 93(1-4), 2017
- 63) Jayaraj, R.K., Malarvizhi, S., Balasubramanian, V. Electrochemical corrosion behaviour of stir zone of friction stir welded dissimilar joints of AA6061 aluminium–AZ31B magnesium alloys, *Transactions of Nonferrous Metals Society of China (English Edition)* 27(10), pp. 2181-2192, 2017
- 64) Vignesh, S., Shanmugam, K., Balasubramanian, V., Sridhar, K. Identifying the optimal HVOF spray parameters to attain minimum porosity and maximum hardness in iron based amorphous metallic coatings, *Defence Technology* 13(2), pp. 101-110, 2017
- 65) Vinoth Kumar, M., Balasubramanian, V., Gourav Rao, A. Hot tensile properties and strain hardening behaviour of Super 304HCu stainless steel, *Journal of Materials Research and Technology* 6(2), pp. 116-122, 2017
- 66) Kamal Jayaraj, R., Malarvizhi, S., Balasubramanian, V., Optimizing the micro-arc oxidation (MAO) parameters to attain coatings with minimum porosity and maximum hardness on the friction stir welded AA6061 aluminium alloy welds, *Defence Technology* 13(2), pp. 111-117
- 67) Rajendran, C., Srinivasan, K., Balasubramanian, V., Balaji, H., Selvaraj, P. Identifying combination of friction stir welding parameters to maximize strength of lap joints of AA2014-T6 aluminium alloy, *Australian Journal of Mechanical Engineering* pp. 1-12, 2017
- 68) Thirumalaikumarasamy, D., Balasubramanian, V., Sree Sabari, S. Prediction and optimization of process variables to maximize the Young's modulus of plasma sprayed

- alumina coatings on AZ31B magnesium alloy, *Journal of Magnesium and Alloys* 5(1), pp. 133-145, 2017
- 69) Subravel, V., Padmanaban, G., Balasubramanian, V. Effect of welding speed on tensile properties and microstructural characteristics of magnetic arc oscillation welded AZ31B magnesium alloy, *Journal of Advanced Microscopy Research* 12(1), pp. 50-59, 2017
  - 70) Thirumalaikumarasamy, D., Balasubramanian, V., Sabari, S.S., Vignesh, S. Comparison of artificial neural networks (ANN) and response surface methodology (RSM) modeling approaches in predicting the deposition efficiency of plasma sprayed alumina coatings on AZ31B magnesium alloy, *Journal of Advanced Microscopy Research* 12(1), pp. 40-49, 2017
  - 71) Vijayavel, P., Balasubramanian, V. Effect of pin profile volume ratio on microstructure and tensile properties of friction stir processed aluminum based metal matrix composites, *Journal of Alloys and Compounds* 729, pp. 828-842, 2017
  - 72) Jayaraj, R.K., Malarvizhi, S., Balasubramanian, V. Identifying the minimum corrosion conditions for friction stir welded dissimilar joints of aluminium-magnesium alloys, *International Journal of Computational Materials Science and Surface Engineering* 7(1), pp. 62-77, 2017
  - 73) Babu, N., Karunakaran, N., Balasubramanian, V. Numerical predictions and experimental investigation of the temperature distribution of friction stir welded AA 5059 aluminium alloy joints, *International Journal of Materials Research* 108(1), pp. 68-75, 2017
  - 74) Amarnath, V., Karuppuswamy, P., Balasubramanian, V. Comparative study of joining processes of high conductivity electrolytic tough pitch copper used in automotive industries, *International Journal of Vehicle Structures and Systems* 9(1), pp. 1-6, 2017
  - 75) Karthick, K., Malarvizhi, S., Balasubramanian, V., (...), Sasikala, G., Albert, S.K. TENSILE AND IMPACT TOUGHNESS PROPERTIES OF VARIOUS REGIONS OF DISSIMILAR JOINTS OF NUCLEAR GRADE STEELS, *Nuclear Engineering and Technology*, 2017.
  - 76) Ragu Nathan, S., Balasubramanian, V., Malarvizhi, S., Rao, A.G. Effect of Tool Shoulder Diameter on Stir Zone Characteristics of Friction Stir Welded HSLA Steel Joints, *Transactions of the Indian Institute of Metals*, 2016, 69(10), pp. 1861-1869
  - 77) Sabari, S.S., Malarvizhi, S., Balasubramanian, V. Influences of tool traverse speed on tensile properties of air cooled and water cooled friction stir welded AA2519-T87 aluminium alloy joints, *Journal of Materials Processing Technology*, 2016, 237, pp. 286-300
  - 78) BALAKRISHNAN, M., BALASUBRAMANIAN, V., MANICKAM, M.A.M. Evaluation of Zero and Sub-zero Temperature Tensile and Impact Properties of Quenched and Tempered Steel Weldments, *Journal of Iron and Steel Research International*, 2016, 23(11), pp. 1177
  - 79) Rajakumar, S., Balasubramanian, V. Diffusion bonding of titanium and AA 7075 aluminum alloy dissimilar joints—process modeling and optimization using desirability approach, *International Journal of Advanced Manufacturing Technology*, 2016, 86(1-4), pp. 1095-1112
  - 80) Sree Sabari, S., Malarvizhi, S., Balasubramanian, V., Madusudhan Reddy, G. Experimental and numerical investigation on under-water friction stir welding of armour grade AA2519-T87 aluminium alloy, *Defence Technology*, 2016, 12(4), pp. 324-333
  - 81) Saravanan, I., Elaya Perumal, A., Balasubramanian, V. A study of frictional wear behavior of Ti6Al4V and UHMWPE hybrid composite on TiN surface for bio-medical applications, *Tribology International*, 2016, 98, pp. 179-189

- 82) Thirumalaikumarasamy, D., Shanmugam, K., Balasubramanian, V., Viknesh, S. Effect of pH, chloride ion concentration and immersion time on the microstructural and corrosion properties of atmospheric plasma sprayed alumina coatings on AZ31B magnesium alloy under immersion environment, *Journal of Advanced Microscopy Research*, 2016 11(1), pp. 62-71
- 83) John Baruch, L., Raju, R., Balasubramanian, V., Rao, A.G., Dinaharan, I. Influence of multi-pass friction stir processing on microstructure and mechanical properties of die cast Al-7Si-3Cu aluminum alloy, *Acta Metallurgica Sinica (English Letters)*, 2016, 29(5), pp. 431-440
- 84) Sree Sabari, S., Malarvizhi, S., Balasubramanian, V. Characteristics of FSW and UWFSW joints of AA2519-T87 aluminium alloy: Effect of tool rotation speed, *Journal of Manufacturing Processes*, 2016, 22, pp. 278-289
- 85) Jayaraj, R.K., Malarvizhi, S., Balasubramanian, V. Identifying the conditions for minimum pitting corrosion in friction stir welded dissimilar joints of aluminium – magnesium alloys, *Journal of Corrosion Science and Engineering*, 2016, 19