

Dr. S. Rajakumar. M.E., Ph.D.

Associate Professor &

Centre for Materials Joining and Research (CEMAJOR)

Department of Manufacturing Engineering

Annamalai University

INTERNATIONAL JOURNALS:

Author(s)	Title	Name of Journal	Year
P Prabhuraj, S Rajakumar, V Balasubramanian	Electro chemical response of stir zone in friction stir welded AA7075-T651 joint in sodium chloride solution	Materials Today: Proceedings	2020
S Rajakumar, P Vimal Kumar, S Kavitha, V Balasubramanian	Mechanical and Microstructural Characteristics of Conventional and Robotic Gas Metal Arc Welded Low Carbon Steel Joints: A Comparative Study	Metallography, Microstructure and Analysis	2020
T. Pragatheswaran; S. Rajakumar ; V. Balasubramanian; S. Kavitha; Vijay Petley and Shwetha Verma	Multicriteria Optimization, Sensitivity Analysis and Prediction of Bond Characteristics of Vacuum Diffusion Bonded Aero Engine Ti6Al4V Alloy Joints	International Journal of Aerospace (SAE Publications)	2019
A.Arun negemiya, S.Rajakumar , V.Balasubramanian	Influence of high temperature diffusion bonding process parameters on mechanical and metallurgical characteristics of nickel super alloy to martensitic stainless steel	Microscopy Research and Techniques	2020
A.Arun negemiya, S.Rajakumar , V.Balasubramanian	Diffusion bonding of a titanium alloy to austenitic stainless steel using copper as an interlayer	Applied Science (Springer Nature)	2019
A.Arun negemiya, S.Rajakumar , V.Balasubramanian	Optimization of Ti-6Al-4V/ AISI 304 diffusion bonding process parameters using RSM and PSO algorithm.	Multidiscipline Modelling in Materials and Structures (Impact Factor: 0.75)	2019

A.Arun negemiya, S.Rajakumar , V.Balasubramanian	High Temperature Diffusion bonding of austenitic Stainless steel to titanium dissimilar joints	Materials Research Express (Impact Factor: 1.449)	2019
Elhadj Raouache; Zakaria Boumerzoug; Selvarajan Rajakumar ; Fares Khalfallah	Effect of FSW process parameters on strength and peak temperature for joining high-density polyethylene (HDPE) sheets	Reves des Composites et des Materiaux Avances	2018
A.Arun negemiya, S.Rajakumar , V.Balasubramanian	A Vacuum Diffusion bonding of Titanium/copper/ austenitic stainless steel	International Innovative Research Journal of Engineering and	2018
S.Rajakumar and S. Kavitha	Identification of the most crucial Friction Stir Welding Process and tool parameter to attain a maximum tensile strength of AA6061-T6 Aluminum alloy	International Journal of Research in advent Technology, Special Issue	2018
P.Prabhuraj; S.Rajakumar ; R.S. Jahagirdar and Haikrishnan	Experimental Analysis on Gas tungsten Arc Welding – Induced Angular Distorion in Butt Welded AISI 304 L Plate	International Journal of Research in advent Technology, Special Issue	2018
A.Arun negemiya, S.Rajakumar , V.Balasubramanian	A study on the interface microstructure of diffusion bonded AISI410/Su718 dissimilar joints	Advanced Microscopy Research ImpactFactor: 0.22	2018
P. Anitha, M. C. Majumder, V. Saravanan, and S. Rajakumar	Effects of Friction Pressure and Friction Time on the Mechanical and Microstructure Properties of Friction Welded IN718 and SS410 Dissimilar Joints	Advanced Microscopy Research ImpactFactor: 0.22	2018

Abdul Ghani Khan and S. Rajakumar	Influence of Rotational Speed on Mechanical and Microstructural Characteristics on the Rotary Friction Welded LM25/10%SiC Aluminium Metal Matrix Composites	Advanced Microscopy Research ImpactFactor: 0.22	2018
P. Anitha, M. C. Majumder, V. Saravanan, and S. Rajakumar	Effect of Burn-Off Length for Friction Welded Dissimilar Joints of Inconel 718 and SS410	Journal of Advances in Mechanical Engineering and Science	2018
P. Anitha, M. C. Majumder, V. Saravanan, and S. Rajakumar	Microstructural Characterization and Mechanical Properties of Friction-Welded IN718 and SS410 Dissimilar Joint	Metallography, Microstructure and Analysis ImpactFactor: 0.586	2018
S.Rajakumar and V.Balasubramanian	Corrosion performance of friction surfaced nickel aluminium bronze (NAB) alloy under erosion corrosion and salt fog environment	Corrosion Engineering Science and Technology ImpactFactor: 1.071	2018
P.Prabhuraj, Rajakumar. S and Balasubramanian.V	Optimising salt fog corrosion parameters to minimising the corrosion rate of AA7075-T651 alloy	Materials Today proceedings ImpactFactor:	2018
P.Prabhuraj, Rajakumar. S , A.K Lakshminarayanan and Balasubramanian.V	Evaluating stress corrosion cracking behaviour of high strength AA7075-T651 aluminium alloy	Journal of Mechanical Behavior of Materials ImpactFactor: 0.81	2018
P.Prabhuraj, Rajakumar. S and Balasubramanian.V	Developing an empirical relationship to predict the corrosion rate of high strength AA7075-T651 aluminium alloy under salt fog environment	International journal of electroactive materials ImpactFactor: 0.568	2016
S.Rajakumar , V.Balasubramanian and M.Balakrishnan	Friction surfacing for enhanced surface protection of marine engineering components: erosion-corrosion study	Journal of Mechanical Behavior of Materials (De Gruyter) ImpactFactor:	2016

V.Saravanan, S.Rajakumar , A. Muruganandam	Effect of shoulder diameter to pin diameter ratio on microstructure and mechanical properties of dissimilar friction stir welded AA2024-T6 and AA7075-T6 aluminum alloy joints	Metallography, Microstructure and Analysis ImpactFactor: 0.586	2016
V.Saravanan, S.Rajakumar , Nilotpall Banerjee and R.Amuthakkannan	Effect of shoulder diameter to pin diameter ratio on microstructure and mechanical properties of dissimilar friction stir welded AA2024-T6 and AA7075-T6 aluminum alloy joints	International Journal of Advanced Manufacturing Technology (Springer) ImpactFactor: 1.779	2016
S.Rajakumar and V.Balasubramanian	Diffusion Bonding of Titanium and AA7075 Aluminium Alloy Dissimilar Joints - Process Modelling and Optimization using Desirability Approach	International Journal of Advanced Manufacturing Technology (Springer) ImpactFactor: 1.779	2016
B.Jithendra Reddy, A.Razal Rose and S.Rajakumar	Mechanical and Metallurgical Characterization of Diffusion Bonding C263 and SS 304L Dissimilar Materials	International Journal of Emerging Technology in Computer Science & Electronics ImpactFactor:	2016
P.Prabhuraj, S.Rajakumar , V.Balasubramanian and K.Sridhar	Review of stress corrosion cracking behavior in high strength heat treatable aluminum alloys	International journal of Advanced Engineering Research	2015
S.Venkatesan, G.P.Rajamani, V.Balasubramanian, S.Rajakumar	Effect of Tool Rotational Speed on Tensile and Microstructural Behaviour of Friction Stir Welded AZ31B Magnesium Alloy Joints	Journal of Advanced Microscopy Research ImpactFactor: 0.22	2015
M.Vinoth kumar, V.Balasubramanian, S.Rajakumar and Shaju K.Albert	Stress corrosion cracking behaviour of gas tungsten arc welded super austenitic stainless steel joints	Defence Technology (Elsevier)	2015

V.Saravanan, Nilotpal Banerjee, R.Amuthakkannan and S.Rajakumar	Microstructure and mechanical properties of friction stir welded joints of dissimilar AA6061-T6 and AA7075-T6 aluminium alloys	Applied Mechanics and Materials ImpactFactor: 0.16	2015
K.Dheenadayalan, S.Rajakumar and V.Balasubramanian	Effect of Diffusion Bonding Temperature on Mechanical and Microstructure Characteristics of cp Titanium and High Strength Aluminium Dissimilar Joints	Applied Mechanics and Materials ImpactFactor: 0.16	2015
S.Rajakumar and V.Balasubramanian	Microstructure and Mechanical Properties of Electrical Resistance Spot Welded Interstitial Free Steel Joints	Journal of Advanced Microscopy Research ImpactFactor: 0.22	2015
V.Saravanan, Nilotpal Banerjee, R.Amuthakkannan and S.Rajakumar	Microstructural evolution and mechanical properties of friction stir welded dissimilar AA2014-T6 and AA7075-T6 aluminum alloy joints	Metallography, Microstructure and Analysis (Springer) ImpactFactor: 1.22	2015