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Metal Forming

TITLE	CITED BY	YEAR
Investigations on multi-sheets single point incremental forming of commercial pure titanium alloys G Yoganjaneyulu, N Manikandan, C Sathiya Narayanan Materials and Manufacturing Processes, 1-8	1	2020
Comparison of Multi Point Incremental Forming Tool with Single Point Incremental Forming Tool Using FLD, Fractography and 3D-Surface Roughness Analysis on Cr/Mn/Ni/Si Based ... K Ramkumar, N Baskar, K Elangovan, CS Narayanan, KA Selvarajan, ... Silicon, 1-8		2020
The dependence of the strain path on the microstructure, texture and mechanical properties of cryogenic rolled Al-Cu alloy CC Selvan, CS Narayanan, B Ravisankar, R Narayanasamy, ... Materials Research Express 7 (3), 036525		2020

Analysis And Characterization Of Forming Behavior On Dissimilar Joints Of Aa5052-O To Aa6061-T6 Using Underwater Friction Stir Welding K Tejonadha Babu, S Muthukumaran, C Sathiya Narayanan, ... Surface Review and Letters 27 (03), 1950121		2020
Investigations on strain distribution, stress-based fracture limit and corrosion behaviour of titanium Grade 2 sheets during single point incremental forming G Yoganjaneyulu, VV Ravikumar, CS Narayanan Anti-Corrosion Methods and Materials	2	2020
Comparative study of mechanical technologies over laser technology for drilling carbon fiber reinforced polymer materials V Balasubramaniam, D Rajkumar, P Ranjithkumar, CS Narayanan NISCAIR-CSIR, India		2020
Review on multi-stage incremental forming process to form vertical walled cup G Vignesh, C Pandivelan, CS Narayanan Materials Today: Proceedings 27, 2297-2302		2020
Study on formability and dislocation density in forming of hemispherical cup G Vignesh, C Pandivelan, CS Narayanan Materials Today: Proceedings 27, 2005-2010	1	2020
Forming, fracture and corrosion behaviour of stainless steel 202 sheet formed by single point incremental forming process G Vignesh, CS Narayanan, C Pandivelan, K Shanmugapriya, ... Materials Research Express 6 (12), 126540		2019
Microstructure and mechanical properties of cryorolled Al-6Zn-3Mg-2Cu-0.5 Sc alloy G Yoganjaneyulu, KA Babu, S Vigneshwaran, CS Narayanan Materials Letters 255, 126606		2019
Investigations on the void coalescence and corrosion behaviour of titanium grade 4 sheets during single point incremental forming process G Yoganjaneyulu, Y Phaneendra, VV Ravikumar, CS Narayanan Anti-Corrosion Methods and Materials	3	2019

Microstructure and mechanical properties of Al–6 Zn–3 Mg–2 Cu–0.5 Sc alloy G Yoganjaneyulu, KA Babu, GV Siva, S Vigneshwaran, CS Narayanan Materials Letters 253, 18-21	5	2019
A comparison of fracture limit analysis on titanium grade 2 and titanium grade 4 sheets during single point incremental forming G Yoganjaneyulu, CS Narayanan Journal of Failure Analysis and Prevention 19 (5), 1286-1296	2	2019
Application of ANFIS for the Selection of Optimal Wire-EDM Parameters While Machining Ti-6Al-4V Alloy and Multi-Parametric Optimization Using GRA Method S Kumar, S Dhanabalan, CS Narayanan International Journal of Decision Support System Technology (IJDSSST) 11 (4 ...		2019
The microstructure transformations and deformation behavior of Al-4Mg-0.2 Zr alloy rolled at ambient and cryogenic temperatures CC Selvan, CS Narayanan, S Vigneshwaran, R Narayanasamy, P Susila Materials Research Express 6 (10), 1065a5		2019
Application of ANFIS and GRA for multi-objective optimization of optimal wire-EDM parameters while machining Ti–6Al–4V alloy S Kumar, S Dhanabalan, CS Narayanan SN Applied Sciences 1 (4), 298	8	2019
Optimization of multipoint incremental sheet metal forming of SS430 sheets using GRA K Ramkumar, N Baskar, G Paulraj, K Elangovan, CS Narayanan NISCAIR-CSIR, India		2019
Form tolerances investigation in EDM process for super alloys using multiple holes electrodes S Dhanabalan, K Sivakumar, CS Narayanan NISCAIR-CSIR, India		2019
Improvement in Mechanical and Metallurgical Properties of Friction Stir Welded 6061-T6 Aluminum Alloys through Cryogenic Treatment KT Babu, S Muthukumaran, CH Kumar, CS Narayanan Materials Science Forum 969, 490-495		2019

A Study on Influence of Underwater Friction Stir Welding on Microstructural, Mechanical Properties and Formability in 5052-O Aluminium Alloys KT Babu, S Muthukumaran, CH Kumar, CS Narayanan Materials Science Forum 969, 27-33	1	2019
Investigation on the fracture behavior of titanium grade 2 sheets by using the single point incremental forming process G Yoganjaneyulu, CS Narayanan, R Narayanasamy Journal of Manufacturing Processes 35, 197-204	14	2018
Multi-parametric optimization of universal cylindrical grinding using grey relational analysis S Kumar, S Dhanabalan, CS Narayanan, T Karthikeyan International Conference on Contemporary Design and Analysis of ...	1	2018
Forming limit diagram, void analysis, strain distribution and surface roughness for SS430 sheets during multipoint incremental forming K Ramkumar, G Paulraj, K Elangovan, C Sathiya Narayanan Archives of Metallurgy and Materials 63	2	2018
Strain distribution and failure mode in single point incremental forming (SPIF) of multiple commercially pure aluminum sheets C Raju, N Haloi, CS Narayanan Journal of Manufacturing Processes 30, 328-335	24	2017
Optimization of machining parameters on microdrilling of CFRP composites by Taguchi based desirability function analysis D Rajkumar, P Ranjithkumar, CS Narayanan NISCAIR-CSIR, India	8	2017
Modelling the forming limit diagram for aluminium alloy sheets using ANN and ANFIS S Kannadasan, A Senthil Kumar, C Pandivelan, C Sathiya Narayanan Appl. Math. Inf. Sci 11, 1435-1442	4	2017
Application of the Taguchi based Desirability Function Analysis to Improve a GFRP Micro-drilling Performance DR Kumar, PR Kumar, CS Narayanan, G Sakthivel, S Karmegam Asian Journal of Research in Social Sciences and Humanities 7 (2), 771-783		2017

Optimization of EDM process parameters in machining Si ₃ N ₄ –TiN conductive ceramic composites to improve form and orientation tolerances L Selvarajan, CS Narayanan, R Jeyapaul, M Manohar Measurement 92, 114-129	37	2016
FLD and fractography analysis of multiple sheet single point incremental forming C Raju, CS Narayanan Transactions of the Indian Institute of Metals 69 (6), 1237-1243	15	2016
Optimization of EDM Parameters on Machining Si ₃ N ₄ –TiN Composite for Improving Circularity, Cylindricity, and Perpendicularity L Selvarajan, CS Narayanan, R JeyaPaul Materials and Manufacturing Processes 31 (4), 405-412	37	2016
Effect of process parameters on the electrical discharge machining of aluminum metal matrix composites through a response surface methodology approach V Balasubramaniam, N Baskar, CS Narayanan Science and Engineering of Composite Materials 23 (2), 145-154	1	2016
Experimental Investigations on EDM Process for Optimum Cylindricity and SR through less Machining Time for Al6061/SiC Composites V Balasubramaniam, N Baskar, CS Narayanan Asian Journal of Research in Social Sciences and Humanities 6 (12), 126-134	1	2016
Application of a hybrid optimization technique in a multiple sheet single point incremental forming process C Raju, CS Narayanan Measurement 78, 296-308	29	2016
Optimization of EDM Hole Drilling Parameters in Machining of MoSi ₂ -SiC Intermetallic/Composites for Improving Geometrical Tolerances L Selvarajan, C Sathiya Narayanan, R Jeyapaul Journal of Advanced Manufacturing Systems 14 (04), 259-272	14	2015

<p>Optimization of process parameters to improve form and orientation tolerances in EDM of MoSi₂-SiC composites</p> <p>L Selvarajan, C Sathiya Narayanan, R Jeyapaul</p> <p>Materials and Manufacturing Processes 30 (8), 954-960</p>	22	2015
<p><u>Experimental investigation on electrical discharge machining of titanium alloy using copper, brass and aluminum electrodes</u></p> <p>S Dhanabalan, K Sivakumar, CS Narayanan</p> <p>Journal of Engineering Science and Technology 10 (1), 72-80</p>	8	2015