



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**FACULTY PUBLICATIONS**

Department: **MECHANICAL**

Academic Year: **2018-2019**

S. No	Name of the Author	Title	Journal Name	ISSN No.	SCI/SCOPUS	Date Of Publication
1.	P. Nageswara Rao	Microstructure Characterization of Superalloy 718 during Dissimilar Rotary Friction Welding	Materials Science Forum	1662-9752	SCOPUS	May 2019
2.	D. Venkateswarlu P. Nageswara Rao	Characterization of Microstructure and Mechanical Properties of AA2219-O and T6 Friction Stir Welds.	Materials Science Forum	1662-9752	SCOPUS	May 2019
3.	D. Venkateswarlu P. Nageswara Rao	Optimization of Process Parameters Using Surface Response Methodology for Laser Welding of Titanium Alloy	Materials Science Forum	1662-9752	SCOPUS	May 2019
4.	P. Nageswara Rao	Combustion Characteristics of Single Cylinder Diesel Engine Fueled with Blends of Thumba Biodiesel as an Alternative Fuel.	Materials Science Forum	1662-9752	SCOPUS	February 2019
5.	P. Nageswara Rao	Numerical Analysis of Constrained Groove Pressing and Mechanical Behaviour of Processed 316L Stainless Steel	Materials Science Forum	1662-9752	SCOPUS	May 2019
6.	P. Nageswara Rao	Effect of Process Parameters and Heat Input on Weld Bead Geometry of Laser Welded Titanium Ti-6Al-	Materials Science Forum	1662-9752	SCOPUS	May 2019



# MARRI LAXMAN REDDY

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		4V Alloy				
7.	P. Nageswara Rao	The Influence of Gas Tungsten Arc Welding Parameters on Mechanical and Microstructure Properties of the TC4 Titanium Alloy	Materials Science Forum	1662-9752	SCOPUS	May 2019
8.	D. Venkateswarlu	Anodic Polarization Behavior of Cold-Worked Austenitic Stainless Steel:A Newer Approach	Materials Science Forum	1662-9752	SCOPUS	February 2019
9.	D. Venkateswarlu	X-Ray Diffraction and Microstructure Analysis of En47 Spring Steel at Various Soaking Period of Time	Materials Science Forum	1662-9752	SCOPUS	February 2019
10.	D. Venkateswarlu	Effect of Soaking Time on Evolution of Microstructure and Hardness during Annealing of EN-47 Spring Steel	Materials Science Forum	1662-9752	SCOPUS	February 2019
11.	D. Venkateswarlu	Microstructure Characterization in Dissimilar TIG Welds of Inconel Alloy 718 and High Strength Tensile Steel	Materials Science Forum	1662-9752	SCOPUS	May 2019
12.	D. Venkateswarlu	Parameter Optimization for Laser Welding of High Strength Dissimilar Materials	Materials Science Forum	1662-9752	SCOPUS	May 2019
13.	D. Venkateswarlu	Experimental Analysis of SA213 Tube to SA387 Tube Plate Welding By Using Close Fit Technique in Absence of Supporting Plate	Materials Science Forum	1662-9752	SCOPUS	February 2019
14.	D. Venkateswarlu	Effect of Mechanical Properties and Corrosion Behaviour of Martensitic Stainless Steel 410 1.6mm Butt Welded by Plasma Arc Welding	Materials Science Forum	1662-9752	SCOPUS	February 2019



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15.	D. Venkateswarlu P. Nageswara Rao	Effect Of Process Parameters and Heat Input on Weld Bead Geometry of Laser Welded Titanium Ti-6al-4v Alloy.	Materials Science Forum	1662-9795	SCOPUS	May 2019
16.	D. Venkateswarlu	Effect of Microstructure and Mechanical Properties of Austenitic Stainless Steel 1.6mm Butt Welded by Plasma Arc Welding	Materials Science Forum	1662-9752	SCOPUS	May 2019
17.	P. Nageswara Rao	Synergetic Effect of Cry rolling And Post roll Aging on Simulations Increase in Wear Resistance and Mechanical Properties of Al-Cu Alloy	Journal of tribology	1757-8981	SCI	November 2018
18.	P. Nageswara Rao	Precipitation hardening behavior f Al-Mg-Si alloy processed by cryo rolling and room temperature rolling	Material research express	2053-1591	SCI	April 2018
19.	P. Nageswara Rao	Review On the Extraction Methods of Crude Oil from All Generation Bio fuels In Last Few Decades	Material science and engineering	1757-8981	SCOPUS	2018
20.	P. Nageswara Rao	Decolorization Of Basic Textile Dye from Aqueous Solutions Using a Biosorbent Derived from Thespesia Populnea Used Biomass.	Material science and engineering	1757-8981	SCOPUS	2018
21.	P. Nageswara Rao	Combustion Characteristics of Ci Diesel Engine Fueled with Blends of Jatropha Oil Biodiesel.	Material science and engineering	1757-8981	SCOPUS	2018
22.	D. Venkateswarlu P. Nageswara Rao	Production Of Biodiesel from Thespesiapopulnea Seed Oil Through Rapid in Situ Transesterification- An Optimization Study and Assay of	Material science and engineering	1757-8981	SCOPUS	2018



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		Fuel Properties.				
23.	D. Venkateswarlu P. Nageswara Rao	Optimization Of Process Parameters Using Response Methodology for Laser Welding of Titanium Alloy.	Materials Science Forum	1662-9752	SCOPUS	2018
24.	D. Venkateswarlu	Effects Of In-Grain Misorientation Developments in Sensitization Of 304 L Austenitic Stainless Steels.	Journal of Material research express	2053-1591	SCI	October 2018
25.	D. Venkateswarlu	Effects of Plastic Strains on Passivation Behavior of different Austenitic Stainless-Steel Grades	Journal of Materials Research Express	2053-1591	SCI	November 2018
26.	D. Venkateswarlu	An investigation of mechanical properties of madar fiber reinforced polyester composites for various fiber length and fiber content	Journal of Materials Research Express	2053-1591	SCI	October 2018
27.	D. Venkateswarlu	Analysis of The Influence of Friction Stir Processing on Gas Tungsten Arc Welding of 2024 Aluminum Alloy Weld Zone	Journal of Mechanical and Production Engineering Research and Development	2249-8001	SCI	2018
28.	D. Venkateswarlu	Interfacial Microstructures and Characterization of The Titanium-Stainless Steel Friction Welds Using Interlayer Technique.	Springer-Advanced materials	978-3-319-03749-3	Book chapter	2018
29.	D. Venkateswarlu	Analysis of the Effects of Drilling Hole in the Structural Steel Weldment.	Mechanics of New Materials and Their Applications	978-1-53614-083-5	Book chapter	2019
30.	D. Venkateswarlu	Dissimilar friction welding of AISI	Lecture Notes in	2195-4356	SCI	2019



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		304 austenitic stainless steel and AISI D3 tool steel: Mechanical Properties and Microstructural Characterization.	Mechanical Engineering, Springer		Book chapter	
31.	D. Venkateswarlu	Anodic Polarization Behavior of Cold-Worked Austenitic Stainless Steel: A Newer Approach.	Key engineering materials	1662-9795	SCOPUS	2019
32.	D. Venkateswarlu	Analyses and Comparison of Solar Air Heater with Various Rib Roughness using Computational Fluid Dynamics (CFD).	Materials Science and Engineering	1757-8981	SCOPUS	2018
33.	D. Venkateswarlu	Machining of AISI D2 Tool Steel with Multiple Hole Electrodes by EDM Process.	Materials Science and Engineering	1757-8981	SCOPUS	2018
34.	D. Venkateswarlu	Recent Developments and Research Progress on Friction Stir Welding of Titanium Alloys: An Overview.	Materials Science and Engineering	1757-8981	SCOPUS	2018
35.	D. Venkateswarlu	Microstructure Characterization of Al-TiC Surface Composite Fabricated by Friction Stir Processing.	Materials Science and Engineering	1757-8981	SCOPUS	2018
36.	D. Venkateswarlu	Modeling of End Milling of AA6061-TiCp Metal Matrix Composite.	Materials Science and Engineering	1757-8981	SCOPUS	2018
37.	D. Venkateswarlu	Analyzing the Friction Stir Welded Joints of AA2219 Al-Cu Alloy in Different Heat-Treated-State	Materials Science and Engineering	1757-8981	SCOPUS	2018



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38.	D. Venkateswarlu	A Review of Research Progress on Dissimilar Laser Weld Brazing of Automotive Applications	Materials Science and Engineering	1757-8981	SCOPUS	2018
39.	D. Venkateswarlu	Tensile Properties of Friction Stir Welded Joints of AA 2024-T6 Alloy at Different Welding Speeds	Materials Science and Engineering	1757-8981	SCOPUS	2018
40.	D. Venkateswarlu	Evaluation of Solar Air Heater Performance with Artificial Rib Roughness over the Absorber Plate using Finite Element Modeling Analysis.	Materials Science and Engineering	1757-8981	SCOPUS	2018
41.	D. Venkateswarlu	Dissimilar Joining of Stainless Steel and 5083 Aluminum Alloy Sheets by Gas Tungsten Arc Welding-Brazing Process	Materials Science and Engineering	1757-8981	SCOPUS	2018
42.	K. Veera Raghavulu	Review on Applications of nano fluids used in VCR system for COP enhancement.	Material science and engineering	1757-8981	SCOPUS	2018
43.	D. Venkateswarlu	Cold Metal Transfer (CMT) Welding of Dissimilar Materials: An Overview	Materials Science Forum	1662-9752	SCOPUS	March 2019
44.	D. Venkateswarlu	Formability Analyses on Single Point Incremental Sheet Forming Process on Aluminum 1050	Materials Science Forum	1662-9752	SCOPUS	2019
45.	D. Venkateswarlu	Metal Joining Technique of SA 213 Tube and SA 387 Tube Plate Grade Materials Using Backing Block by Clearance Fit Condition	Materials Science Forum	1662-9752	SCOPUS	February 2019



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46.	D. Venkateswarlu	TIG Arc Welding - Brazing of Dissimilar Metals - An Overview	Materials Science Forum	1662-9752	SCOPUS	February 2019
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