

# Muralimohan Cheepu

## List of Publications by Citations

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65

papers

891

citations

18

h-index

26

g-index

67

ext. papers

1,096

ext. citations

1

avg, IF

5.17

L-index

#	Paper	IF	Citations
65	Analysis and Characterization of the Role of Ni Interlayer in the Friction Welding of Titanium and 304 Austenitic Stainless Steel. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2016</b> , 47, 347-359	2.3	73
64	Friction Welding of Type 304 Stainless Steel to CP Titanium Using Nickel Interlayer. <i>Advanced Materials Research</i> , <b>2013</b> , 794, 351-357	0.5	54
63	A New Approach for Using Interlayer and Analysis of the Friction Welding of Titanium to Stainless Steel. <i>Transactions of the Indian Institute of Metals</i> , <b>2017</b> , 70, 2591-2600	1.2	48
62	Friction Welding of Titanium to 304 Stainless Steel with Electroplated Nickel Interlayer. <i>Materials Science Forum</i> , <b>2012</b> , 710, 620-625	0.4	48
61	The influence of aluminium intermediate layer in dissimilar friction welds. <i>International Journal of Materials Research</i> , <b>2014</b> , 105, 350-357	0.5	47
60	Improving Mechanical Properties of Dissimilar Material Friction Welds. <i>Applied Mechanics and Materials</i> , <b>2018</b> , 877, 157-162	0.3	37
59	Mechanisms of weld pool flow and slag formation location in cold metal transfer (CMT) gas metal arc welding (GMAW). <i>Welding in the World, Le Soudage Dans Le Monde</i> , <b>2017</b> , 61, 1275-1285	1.9	28
58	Effect of Burn-off Length on the Properties of Friction Welded Dissimilar Steel Bars. <i>Journal of Welding and Joining</i> , <b>2019</b> , 37, 46-55	1.1	27
57	Influence of Water Cooling and Post-Weld Ageing on Mechanical and Microstructural Properties of the Friction-Stir Welded 6061 Aluminium Alloy Joints. <i>Applied Mechanics and Materials</i> , <b>2018</b> , 877, 163-176	0.3	25
56	Fabrication and Analysis of Accumulative Roll Bonding Process between Magnesium and Aluminum Multi-Layers. <i>Applied Mechanics and Materials</i> , <b>2018</b> , 877, 183-189	0.3	25
55	Characterization of Microstructure and Interface Reactions in Friction Welded Bimetallic Joints of Titanium to 304 Stainless Steel Using Nickel Interlayer. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 1597-1601	1.2	23
54	Tensile Properties of Friction Stir Welded Joints of AA 2024-T6 Alloy at Different Welding Speeds. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012081	0.4	23
53	Recent Developments and Research Progress on Friction Stir Welding of Titanium Alloys: An Overview. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012068	0.4	23
52	Analysing the Friction Stir Welded Joints of AA2219 Al-Cu Alloy in Different Heat-Treated-State. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012074	0.4	22
51	A Review of Research Progress on Dissimilar Laser Weld-Brazing of Automotive Applications. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012073	0.4	22
50	Microstructure Characterization of Superalloy 718 during Dissimilar Rotary Friction Welding. <i>Materials Science Forum</i> , <b>2019</b> , 969, 211-217	0.4	19
49	Dissimilar Joining of Stainless Steel and 5083 Aluminum Alloy Sheets by Gas Tungsten Arc Welding-Brazing Process. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012048	0.4	18

48	Development of a Friction Welded Bimetallic Joints Between Titanium and 304 Austenitic Stainless Steel <b>2018</b> , 709-717		18
47	Microstructure and Mechanical Properties of Friction-Welded and Post-Heat-Treated Inconel 718. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1449-1453	1.2	17
46	Friction Welding of Titanium to Stainless Steel Using Al Interlayer. <i>Transactions of the Indian Institute of Metals</i> , <b>2019</b> , 72, 1563-1568	1.2	16
45	Characterization of Interfacial Microstructure in Friction Welds Between Inconel 718 and SM45C Steel. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1567-1571	1.2	16
44	Dissimilar Friction Welding of AISI 304 Austenitic Stainless Steel and AISI D3 Tool Steel: Mechanical Properties and Microstructural Characterization. <i>Lecture Notes in Mechanical Engineering</i> , <b>2019</b> , 271-281 <sup>0.4</sup>		15
43	Interface Microstructural Characterization of Titanium to Stainless Steel Dissimilar Friction Welds. <i>Minerals, Metals and Materials Series</i> , <b>2019</b> , 259-268	0.3	12
42	Microstructural Characteristics of Wire Arc Additive Manufacturing with Inconel 625 by Super-TIG Welding. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1475-1479	1.2	12
41	Microstructure Characterization of Al-TiC Surface Composite Fabricated by Friction Stir Processing. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012060	0.4	12
40	Interfacial Microstructures and Characterization of the Titanium-Stainless Steel Friction Welds Using Interlayer Technique. <i>Springer Proceedings in Physics</i> , <b>2018</b> , 267-283	0.2	12
39	Effect of Process Parameters and Heat Input on Weld Bead Geometry of Laser Welded Titanium Ti-6Al-4V Alloy. <i>Materials Science Forum</i> , <b>2019</b> , 969, 613-618	0.4	12
38	Observation and analysis of metal transfer phenomena for high-current super-TIG welding process. <i>Science and Technology of Welding and Joining</i> , <b>2020</b> , 25, 106-111	3.7	12
37	Effect of gaussian beam on microstructural and mechanical properties of dissimilar laser welding of AA5083 and AA6061 alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012066 <sup>0.4</sup>		11
36	Parameter Optimization for Laser Welding of High Strength Dissimilar Materials. <i>Materials Science Forum</i> , <b>2019</b> , 969, 558-564	0.4	11
35	Characterization of Microstructure and Mechanical Properties of AA2219-O and T6 Friction Stir Welds. <i>Materials Science Forum</i> , <b>2019</b> , 969, 205-210	0.4	10
34	Microstructure Characterization in Dissimilar TIG Welds of Inconel Alloy 718 and High Strength Tensile Steel. <i>Materials Science Forum</i> , <b>2019</b> , 969, 496-501	0.4	10
33	Optimization of Process Parameters Using Surface Response Methodology for Laser Welding of Titanium Alloy. <i>Materials Science Forum</i> , <b>2019</b> , 969, 539-545	0.4	10
32	Studies on post weld heat treatment of dissimilar aluminum alloys by laser beam welding technique. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012079	0.4	10
31	Interface Microstructure Characteristics of Friction-Welded Joint of Titanium to Stainless Steel with Interlayer. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1497-1501	1.2	9

30	Influence of Friction Pressure on Microstructure and Joining Phenomena of Dissimilar Joints. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1455-1460	1.2	9
29	Effect of Welding Parameters on TIG Welding of Inconel 718 to AISI 4140 Steel. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1515-1520	1.2	8
28	Effect of Heating Time on Thermomechanical Behavior of Friction-Welded A105 Bar to A312 Pipe Joints. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1433-1438	1.2	8
27	Weldability and Fracture Behaviour of Low Carbon Steel/Aluminium/Stainless Steel Clad Sheet with Resistance Spot Welding. <i>Transactions of the Indian Institute of Metals</i> , <b>2017</b> , 70, 759-768	1.2	7
26	Microstructure and Mechanical Properties for the Dissimilar Joining of Inconel 718 Alloy to High-Strength Steel by TIG Welding. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1521-1525	1.2	7
25	Growth Rate of Intermetallics in Aluminum to Copper Dissimilar Welding. <i>Transactions of the Indian Institute of Metals</i> , <b>2020</b> , 73, 1509-1514	1.2	7
24	Machining of AISI D2 Tool Steel with Multiple Hole Electrodes by EDM Process. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012067	0.4	7
23	The Influence of Gas Tungsten Arc Welding Parameters on Mechanical and Microstructure Properties of the TC4 Titanium Alloy. <i>Materials Science Forum</i> , <b>2019</b> , 969, 895-900	0.4	7
22	Cold Metal Transfer (CMT) Welding of Dissimilar Materials: An Overview. <i>Materials Science Forum</i> , <b>2019</b> , 969, 685-690	0.4	5
21	The Resistance Spot Weldability of a Stainless Steel/Aluminium/Low Carbon Steel 3-Ply Clad Sheet. <i>Journal of Welding and Joining</i> , <b>2018</b> , 36, 25-33	1.1	5
20	Numerical simulation of slag movement from Marangoni flow for GMAW with computational fluid dynamics. <i>International Communications in Heat and Mass Transfer</i> , <b>2021</b> , 125, 105243	5.8	5
19	TIG Arc Welding - Brazing of Dissimilar Metals - An Overview. <i>Materials Science Forum</i> , <b>2019</b> , 969, 768-774	0.4	5
18	Analysis and Characterization of the Weld Pool and Bead Geometry of Inconel 625 Super-TIG Welds. <i>Metals</i> , <b>2020</b> , 10, 365	2.3	4
17	Performance evaluation of Titanium nitride coated tool in turning of mild steel. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012078	0.4	4
16	Influence of joint interface on mechanical properties in dissimilar friction welds. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-13	0.8	3
15	Laser welding of dissimilar alloys between high tensile steel and Inconel alloy for high temperature applications. <i>Advances in Materials and Processing Technologies</i> , <b>2020</b> , 1-12	0.8	2
14	Effect of filler materials on dissimilar TIG welding of Inconel 718 to high strength steel. <i>Materials Today: Proceedings</i> , <b>2021</b> ,	1.4	2
13	Influence of rotational speed on the dissimilar friction welding of heat-treated aluminum alloys. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>998</b> , 012070	0.4	2

12	Evaluation of the mechanical properties of Inconel 718 to SCM 440 dissimilar friction welding through real-time monitoring of the acoustic emission system. <i>Proceedings of the Institution of Mechanical Engineers, Part L: Journal of Materials: Design and Applications</i> , <b>2021</b> , 235, 1181-1190	1.3	2
11	Analyses and Comparison of Solar Air Heater with Various Rib Roughness using Computational Fluid Dynamics (CFD). <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012061	0.4	1
10	Optimization of Welding Parameters for Friction Welding of 304 Stainless Steel to D3Tool Steel Using Response Surface Methodology <b>2020</b> , 427-437		1
9	Dissimilar metals TIG welding-brazing of AZ31 magnesium alloy to 304 stainless steel. <i>Materials Today: Proceedings</i> , <b>2021</b> , 39, 1549-1552	1.4	1
8	Evaluation of Mechanical and Wear Properties of Al 5059/B4C/Al <sub>2</sub> O <sub>3</sub> Hybrid Metal Matrix Composites. <i>Journal of Composites Science</i> , <b>2022</b> , 6, 86	3	1
7	Experimental and numerical studies on gas tungsten arc welding of Ti <sub>6</sub> Al <sub>4</sub> V tailor-welded blank. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , <b>2020</b> , 42, 1	2	0
6	Simulation and Experimental Studies on Arc Efficiency and Mechanical Characterization for GTA-Welded Ti <sub>6</sub> Al <sub>4</sub> V Sheets. <i>Arabian Journal for Science and Engineering</i> , <b>2020</b> , 45, 9639-9650	2.5	0
5	Effects of Heat Treatment on the Mechanical Behavior of Udimet 720 Nickel-Based Superalloy. <i>Journal of Materials Engineering and Performance</i> , 1	1.6	0
4	Evaluation of Solar Air Heater Performance with Artificial Rib Roughness over the Absorber Plate using Finite Element Modelling Analysis. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012062	0.4	
3	Modelling of End Milling of AA6061-TiCp Metal Matrix Composite. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012063	0.4	
2	Experimental Study on Turning Operation of Gun Metal Using Uncoated Cutting Tool <b>2020</b> , 593-600		
1	Modelling of End Milling of AA6061-TiCp Metal Matrix Composite. <i>IOP Conference Series: Materials Science and Engineering</i> , <b>2018</b> , 330, 012080	0.4	