

Ramulu Mamidala

List of Publications by Year in descending order

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55
papers

1,854
citations

201385

27
h-index

264894

42
g-index

55
all docs

55
docs citations

55
times ranked

1375
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanics of crack curving and branching ? a dynamic fracture analysis. International Journal of Fracture, 1985, 27, 187-201.	1.1	179
2	Effect of build direction on the fracture toughness and fatigue crack growth in selective laser melted Ti-6Al-4V. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 1228-1236.	1.7	108
3	EDM machinability of SiCw/Alcomposites. Journal of Materials Science, 1989, 24, 1103-1108.	1.7	87
4	A Study of Kerf Characteristics in Abrasive Waterjet Machining of Graphite/Epoxy Composite. Journal of Engineering Materials and Technology, Transactions of the ASME, 1996, 118, 256-265.	0.8	85
5	Machinability of High Temperature Composites by Abrasive Waterjet. Journal of Engineering Materials and Technology, Transactions of the ASME, 1990, 112, 381-386.	0.8	83
6	Electrical Discharge Machining of Functionally Graded 15-35 Vol% SiCp/Al Composites. Materials and Manufacturing Processes, 2006, 21, 479-487.	2.7	79
7	Dynamic crack curving- A photoelastic evaluation. Experimental Mechanics, 1983, 23, 1-9.	1.1	75
8	Machining and surface integrity of fibre-reinforced plastic composites. Sadhana - Academy Proceedings in Engineering Sciences, 1997, 22, 449-472.	0.8	62
9	Finite Element Modeling of Edge Trimming Fiber Reinforced Plastics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2002, 124, 32-41.	1.3	58
10	Study on the Drilling of Titanium/Graphite Hybrid Composites. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 390-396.	0.8	56
11	Peak temperatures during friction stir welding of Ti-6Al-4V. Science and Technology of Welding and Joining, 2010, 15, 468-472.	1.5	56
12	The limiting layer of fish scales: Structure and properties. Acta Biomaterialia, 2018, 67, 319-330.	4.1	53
13	Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics. Experimental Mechanics, 1996, 36, 33-41.	1.1	49
14	Identification of Process Parameters for Friction Stir Welding Ti-6Al-4V. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, .	0.8	48
15	Influence of Grain Size and Microstructure on Oxidation Rates in Titanium Alloy Ti-6Al-4V Under Superplastic Forming Conditions. Journal of Materials Engineering and Performance, 2004, 13, 727-734.	1.2	47
16	Characterization of Superplastically Formed Friction Stir Weld in Titanium 6AL-4V: Preliminary Results. Journal of Materials Engineering and Performance, 2008, 17, 187-192.	1.2	47
17	Low-Velocity Impact Response Characterization of a Hybrid Titanium Composite Laminate. Journal of Engineering Materials and Technology, Transactions of the ASME, 2007, 129, 220-226.	0.8	43
18	Waterjet Machining and Peening of Metals. Journal of Pressure Vessel Technology, Transactions of the ASME, 2000, 122, 90-95.	0.4	40

#	ARTICLE	IF	CITATIONS
19	Further studies on dynamic crack branching. <i>Experimental Mechanics</i> , 1983, 23, 431-437.	1.1	37
20	Drilling of Graphite/Bismaleimide Composite Material. <i>Journal of Materials Engineering and Performance</i> , 1999, 8, 330-338.	1.2	37
21	Fatigue Performance of High-Pressure Waterjet-Peened Aluminum Alloy. <i>Journal of Pressure Vessel Technology</i> , Transactions of the ASME, 2002, 124, 118-123.	0.4	37
22	Waterjet Peening and Surface Preparation at 600MPa: A Preliminary Experimental Study. <i>Journal of Fluids Engineering</i> , Transactions of the ASME, 2007, 129, 485-490.	0.8	33
23	Machining of Graphite/Epoxy Composite Materials With Polycrystalline Diamond (PCD) Tools. <i>Journal of Engineering Materials and Technology</i> , Transactions of the ASME, 1991, 113, 430-436.	0.8	32
24	Net shape manufacturing and the performance of polymer composites under dynamic loads. <i>Experimental Mechanics</i> , 1997, 37, 379-385.	1.1	29
25	Surface Residual Stresses in Ti-6Al-4V Friction Stir Welds: Pre- and Post-Thermal Stress Relief. <i>Journal of Materials Engineering and Performance</i> , 2015, 24, 3263-3270.	1.2	29
26	Fracture toughness and fatigue crack growth in Ti-6Al-4V friction stir welds. <i>Fatigue and Fracture of Engineering Materials and Structures</i> , 2015, 38, 970-982.	1.7	29
27	Surface quality monitoring in abrasive water jet machining of Ti6Al4V-CFRP stacks through wavelet packet analysis of acoustic emission signals. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 4091-4104.	1.5	29
28	Waterjet and Water-Air Jet Surface Processing of a Titanium Alloy: A Parametric Evaluation. <i>Journal of Manufacturing Science and Engineering</i> , Transactions of the ASME, 2010, 132, .	1.3	28
29	Drilling of Hybrid Titanium Composite Laminate (HTCL) with Electrical Discharge Machining. <i>Materials</i> , 2016, 9, 746.	1.3	27
30	Friction Stir-Welded Titanium Alloy Ti-6Al-4V: Microstructure, Mechanical and Fracture Properties. <i>Jom</i> , 2015, 67, 1054-1063.	0.9	26
31	EDM Surface Characterization of a Ceramic Composite TiB ₂ /SiC. <i>Journal of Engineering Materials and Technology</i> , Transactions of the ASME, 1991, 113, 437-442.	0.8	22
32	Dynamic Crack Curving and Branching in Line-Pipe. <i>Journal of Pressure Vessel Technology</i> , Transactions of the ASME, 1982, 104, 317-322.	0.4	19
33	Edge Trimming of Graphite/Epoxy with Diamond Abrasive Cutters. <i>Journal of Manufacturing Science and Engineering</i> , Transactions of the ASME, 1999, 121, 647-655.	1.3	19
34	Fatigue performance of Friction Stir Welded titanium structural joints. <i>International Journal of Fatigue</i> , 2015, 70, 171-177.	2.8	19
35	The Effects of Post-Weld Cold Working Processes on the Fatigue Strength of Low Carbon Steel Resistance Spot Welds. <i>Journal of Manufacturing Science and Engineering</i> , Transactions of the ASME, 2005, 127, 718-723.	1.3	14
36	Energy Based Modeling of Ultra High-Pressure Waterjet Surface Preparation Processes. <i>Journal of Pressure Vessel Technology</i> , Transactions of the ASME, 2011, 133, .	0.4	13

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37	Microstructure and Mechanical Properties of Friction Stir Welded Dissimilar Titanium Alloys: TIMET-54M and ATI-425. <i>Metals</i> , 2016, 6, 252.	1.0	13
38	A Fractographic Analysis of Additively Manufactured Ti6Al4V by Electron Beam Melting: Effects of Powder Reuse. <i>Journal of Failure Analysis and Prevention</i> , 2020, 20, 794-803.	0.5	13
39	Investigation of displacement fields in an abrasive waterjet drilling process: Part 2. Numerical analysis. <i>Experimental Mechanics</i> , 2001, 41, 388-402.	1.1	11
40	Impacted Notch Bend Specimens. <i>Journal of Pressure Vessel Technology, Transactions of the ASME</i> , 1982, 104, 25-30.	0.4	10
41	Friction Stir Welding of near \hat{I}_{\pm} and $\hat{I}_{\pm} + \hat{I}^2$ Titanium Alloys: Metallurgical and Mechanical Characterization. <i>Metals</i> , 2017, 7, 565.	1.0	10
42	Processing and fiber content effects on the machinability of compression moulded random direction short GFRP composites. <i>International Journal of Automotive Technology</i> , 2010, 11, 849-855.	0.7	9
43	Ecofriendly inclined drilling of carbon fiber-reinforced polymers (CFRP). <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 111, 2127-2153.	1.5	8
44	Cutting Edge Wear of Tungsten Carbide Tool in Continuous and Interrupted Cutting of a Polymer Composite. <i>Materials and Manufacturing Processes</i> , 1995, 10, 493-508.	2.7	7
45	Frequency Analysis and Process Monitoring in Drilling of Composite Materials. <i>Advanced Composites Letters</i> , 2004, 13, 096369350401300.	1.3	7
46	A Comparison of the Vibration Characteristics of Carbon Fiber Reinforced Plastic Plates with those of Magnesium Plates. <i>Applied Composite Materials</i> , 2009, 16, 263-283.	1.3	6
47	Surface tracking of diffusion bonding void closure and its application to titanium alloys. <i>International Journal of Material Forming</i> , 2020, 13, 517-531.	0.9	6
48	An experimental analysis of a Nd:YAG laser cutting process for machining silicon nitride. <i>International Journal of Production Research</i> , 1996, 34, 1417-1428.	4.9	5
49	Small surface and corner crack propagation in aluminum and steel alloys. <i>Experimental Mechanics</i> , 1988, 28, 214-220.	1.1	4
50	Post-Processing Effect on the Fatigue Behavior of Three Titanium Alloys under Simulated SPF Conditions. <i>Journal of Materials Engineering and Performance</i> , 2007, 16, 163-169.	1.2	4
51	A study of the residual stress induced by shot peening for an isotropic material based on Prager's yield criterion for combined stresses. <i>Meccanica</i> , 2015, 50, 1593-1604.	1.2	3
52	Postprocessing Effect on the Ductility and Flexural Behavior of Three Titanium Alloys Under Simulated Superplastic Forming Conditions. <i>Journal of Materials Engineering and Performance</i> , 2004, 13, 735-743.	1.2	2
53	Experimental and Numerical Simulation of Tensile Behavior and Failure of Titanium Alloys Under Simulated SPF Post-Processing Conditions. <i>Journal of Materials Engineering and Performance</i> , 2007, 16, 155-162.	1.2	1
54	Edge Finishing Effects on the Impact Behavior of Chopped GFRP Composites. <i>Experimental Mechanics</i> , 2010, 50, 321-331.	1.1	1

#	ARTICLE	IF	CITATIONS
55	Fabrication of W-1%ThO ₂ Reinforced Fe-25Cr-8Al-0.5Y Superalloy Matrix Composite. Journal of Engineering Materials and Technology, Transactions of the ASME, 1994, 116, 106-112.	0.8	0