

Ramulu Mamidala

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,854
citations

201575

27
h-index

265120

42
g-index

55
all docs

55
docs citations

55
times ranked

1375
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Surface tracking of diffusion bonding void closure and its application to titanium alloys. International Journal of Material Forming, 2020, 13, 517-531. | 0.9 | 6 |
| 2 | Ecofriendly inclined drilling of carbon fiber-reinforced polymers (CFRP). International Journal of Advanced Manufacturing Technology, 2020, 111, 2127-2153. | 1.5 | 8 |
| 3 | A Fractographic Analysis of Additively Manufactured Ti6Al4V by Electron Beam Melting: Effects of Powder Reuse. Journal of Failure Analysis and Prevention, 2020, 20, 794-803. | 0.5 | 13 |
| 4 | Surface quality monitoring in abrasive water jet machining of Ti6Al4V/CFRP stacks through wavelet packet analysis of acoustic emission signals. International Journal of Advanced Manufacturing Technology, 2019, 104, 4091-4104. | 1.5 | 29 |
| 5 | The limiting layer of fish scales: Structure and properties. Acta Biomaterialia, 2018, 67, 319-330. | 4.1 | 53 |
| 6 | Friction Stir Welding of near $\hat{1}$ and $\hat{1} + \hat{1}^2$ Titanium Alloys: Metallurgical and Mechanical Characterization. Metals, 2017, 7, 565. | 1.0 | 10 |
| 7 | Drilling of Hybrid Titanium Composite Laminate (HTCL) with Electrical Discharge Machining. Materials, 2016, 9, 746. | 1.3 | 27 |
| 8 | Microstructure and Mechanical Properties of Friction Stir Welded Dissimilar Titanium Alloys: TIMET-54M and ATI-425. Metals, 2016, 6, 252. | 1.0 | 13 |
| 9 | 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 |
| 10 | Surface Residual Stresses in Ti-6Al-4V Friction Stir Welds: Pre- and Post-Thermal Stress Relief. Journal of Materials Engineering and Performance, 2015, 24, 3263-3270. | 1.2 | 29 |
| 11 | Fracture toughness and fatigue crack growth in Ti-6Al-4V friction stir welds. Fatigue and Fracture of Engineering Materials and Structures, 2015, 38, 970-982. | 1.7 | 29 |
| 12 | A study of the residual stress induced by shot peening for an isotropic material based on Prager's yield criterion for combined stresses. Meccanica, 2015, 50, 1593-1604. | 1.2 | 3 |
| 13 | Friction Stir-Welded Titanium Alloy Ti-6Al-4V: Microstructure, Mechanical and Fracture Properties. Jom, 2015, 67, 1054-1063. | 0.9 | 26 |
| 14 | Fatigue performance of Friction Stir Welded titanium structural joints. International Journal of Fatigue, 2015, 70, 171-177. | 2.8 | 19 |
| 15 | Energy Based Modeling of Ultra High-Pressure Waterjet Surface Preparation Processes. Journal of Pressure Vessel Technology, Transactions of the ASME, 2011, 133, . | 0.4 | 13 |
| 16 | Processing and fiber content effects on the machinability of compression moulded random direction short GFRP composites. International Journal of Automotive Technology, 2010, 11, 849-855. | 0.7 | 9 |
| 17 | Edge Finishing Effects on the Impact Behavior of Chopped GFRP Composites. Experimental Mechanics, 2010, 50, 321-331. | 1.1 | 1 |
| 18 | Waterjet and Water-Air Jet Surface Processing of a Titanium Alloy: A Parametric Evaluation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, . | 1.3 | 28 |

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|----|--|-----|-----------|
| 19 | Identification of Process Parameters for Friction Stir Welding of Ti-6Al-4V. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, . | 0.8 | 48 |
| 20 | Peak temperatures during friction stir welding of Ti-6Al-4V. Science and Technology of Welding and Joining, 2010, 15, 468-472. | 1.5 | 56 |
| 21 | A Comparison of the Vibration Characteristics of Carbon Fiber Reinforced Plastic Plates with those of Magnesium Plates. Applied Composite Materials, 2009, 16, 263-283. | 1.3 | 6 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | Waterjet Peening and Surface Preparation at 600MPa: A Preliminary Experimental Study. Journal of Fluids Engineering, Transactions of the ASME, 2007, 129, 485-490. | 0.8 | 33 |
| 26 | Experimental and Numerical Simulation of Tensile Behavior and Failure of Titanium Alloys Under Simulated SPF Post-Processing Conditions. Journal of Materials Engineering and Performance, 2007, 16, 155-162. | 1.2 | 1 |
| 27 | Post-Processing Effect on the Fatigue Behavior of Three Titanium Alloys under Simulated SPF Conditions. Journal of Materials Engineering and Performance, 2007, 16, 163-169. | 1.2 | 4 |
| 28 | Electrical Discharge Machining of Functionally Graded 15-35 Vol% SiCp/Al Composites. Materials and Manufacturing Processes, 2006, 21, 479-487. | 2.7 | 79 |
| 29 | The Effects of Post-Weld Cold Working Processes on the Fatigue Strength of Low Carbon Steel Resistance Spot Welds. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2005, 127, 718-723. | 1.3 | 14 |
| 30 | Frequency Analysis and Process Monitoring in Drilling of Composite Materials. Advanced Composites Letters, 2004, 13, 096369350401300. | 1.3 | 7 |
| 31 | 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 |
| 32 | Postprocessing Effect on the Ductility and Flexural Behavior of Three Titanium Alloys Under Simulated Superplastic Forming Conditions. Journal of Materials Engineering and Performance, 2004, 13, 735-743. | 1.2 | 2 |
| 33 | 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 |
| 34 | Fatigue Performance of High-Pressure Waterjet-Peened Aluminum Alloy. Journal of Pressure Vessel Technology, Transactions of the ASME, 2002, 124, 118-123. | 0.4 | 37 |
| 35 | Investigation of displacement fields in an abrasive waterjet drilling process: Part 2. Numerical analysis. Experimental Mechanics, 2001, 41, 388-402. | 1.1 | 11 |
| 36 | Waterjet Machining and Peening of Metals. Journal of Pressure Vessel Technology, Transactions of the ASME, 2000, 122, 90-95. | 0.4 | 40 |

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|----|---|-----|-----------|
| 37 | Edge Trimming of Graphite/Epoxy with Diamond Abrasive Cutters. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1999, 121, 647-655. | 1.3 | 19 |
| 38 | Drilling of Graphite/Bismaleimide Composite Material. Journal of Materials Engineering and Performance, 1999, 8, 330-338. | 1.2 | 37 |
| 39 | Machining and surface integrity of fibre-reinforced plastic composites. Sadhana - Academy Proceedings in Engineering Sciences, 1997, 22, 449-472. | 0.8 | 62 |
| 40 | Net shape manufacturing and the performance of polymer composites under dynamic loads. Experimental Mechanics, 1997, 37, 379-385. | 1.1 | 29 |
| 41 | Investigation of stresses in the orthogonal cutting of fiber-reinforced plastics. Experimental Mechanics, 1996, 36, 33-41. | 1.1 | 49 |
| 42 | 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 |
| 43 | An experimental analysis of a Nd:YAG laser cutting process for machining silicon nitride. International Journal of Production Research, 1996, 34, 1417-1428. | 4.9 | 5 |
| 44 | Cutting Edge Wear of Tungsten Carbide Tool in Continuous and Interrupted Cutting of a Polymer Composite. Materials and Manufacturing Processes, 1995, 10, 493-508. | 2.7 | 7 |
| 45 | 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 |
| 46 | Machining of Graphite/Epoxy Composite Materials With Polycrystalline Diamond (PCD) Tools. Journal of Engineering Materials and Technology, Transactions of the ASME, 1991, 113, 430-436. | 0.8 | 32 |
| 47 | EDM Surface Characterization of a Ceramic Composite TiB ₂ /SiC. Journal of Engineering Materials and Technology, Transactions of the ASME, 1991, 113, 437-442. | 0.8 | 22 |
| 48 | 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 |
| 49 | EDM machinability of SiCw/Alcomposites. Journal of Materials Science, 1989, 24, 1103-1108. | 1.7 | 87 |
| 50 | Small surface and corner crack propagation in aluminum and steel alloys. Experimental Mechanics, 1988, 28, 214-220. | 1.1 | 4 |
| 51 | Mechanics of crack curving and branching ? a dynamic fracture analysis. International Journal of Fracture, 1985, 27, 187-201. | 1.1 | 179 |
| 52 | Dynamic crack curving – A photoelastic evaluation. Experimental Mechanics, 1983, 23, 1-9. | 1.1 | 75 |
| 53 | Further studies on dynamic crack branching. Experimental Mechanics, 1983, 23, 431-437. | 1.1 | 37 |
| 54 | Dynamic Crack Curving and Branching in Line-Pipe. Journal of Pressure Vessel Technology, Transactions of the ASME, 1982, 104, 317-322. | 0.4 | 19 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Impacted Notch Bend Specimens. Journal of Pressure Vessel Technology, Transactions of the ASME, 1982, 104, 25-30. | 0.4 | 10 |