

# Karthik Rao M C

## List of Publications by Year in descending order

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27  
papers

295  
citations

1040056

9  
h-index

996975

15  
g-index

27  
all docs

27  
docs citations

27  
times ranked

283  
citing authors

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 1  | A comparative study of tensile properties of eutectic Al-Si / ZrO <sub>2</sub> composites fabricated by spray forming and stir casting methods. <i>Advances in Materials and Processing Technologies</i> , 2022, 8, 2684-2698.  | 1.4 | 1         |
| 2  | Parameter investigation and optimization of friction stir welded AA6061/TiO <sub>2</sub> composites through TLBO. <i>Welding in the World, Le Soudage Dans Le Monde</i> , 2022, 66, 93-103.   | 2.5 | 7         |
| 3  | Advantages of cryogenic machining technique over without-coolant and with-coolant machining on SS316. <i>Engineering Research Express</i> , 2021, 3, 015040.  | 1.6 | 1         |
| 4  | Influence of Support Vector Regression (SVR) on Cryogenic Face Milling. <i>Advances in Materials Science and Engineering</i> , 2021, 2021, 1-18.  | 1.8 | 18        |
| 5  | Evaluation of Microstructure, Hardness and Mechanical Properties of Friction Stir Welded Al-Ce-Mg Aluminium Alloy. <i>Metals and Materials International</i> , 2020, 26, 1394-1403.   | 3.4 | 10        |
| 6  | An Experimental and Numerical Approach to Study the Performance of Modified Perforated Cutting Tools on Machining of Ti-6Al-4V Alloy. <i>Arabian Journal for Science and Engineering</i> , 2020, 45, 1191-1206.   | 3.0 | 9         |
| 7  | Application of back propagation algorithms in neural network based identification responses of AISI 316 face milling cryogenic machining technique. <i>Australian Journal of Mechanical Engineering</i> , 2020, , 1-8.  | 2.1 | 3         |
| 8  | Dataset on flank wear, cutting force and cutting temperature assessment of austenitic stainless steel AISI316 under dry, wet and cryogenic during face milling operation. <i>Data in Brief</i> , 2019, 26, 104389.  | 1.0 | 4         |
| 9  | Studies on the Effect of Process Parameters in Turning of Ti-6Al-4V Alloy Using Topsis. <i>IOP Conference Series: Materials Science and Engineering</i> , 2019, 577, 012069.  | 0.6 | 8         |
| 10 | An Efficient Approach to Optimize Wear Behavior of Cryogenic Milling Process of SS316 Using Regression Analysis and Particle Swarm Techniques. <i>Transactions of the Indian Institute of Metals</i> , 2019, 72, 191-204.   | 1.5 | 6         |
| 11 | Effect of process parameters in face milling operation and analysis of cutting force using indirect method. <i>Materials and Manufacturing Processes</i> , 2018, 33, 1406-1414.   | 4.7 | 6         |
| 12 | Forward and reverse mapping for milling process using artificial neural networks. <i>Data in Brief</i> , 2018, 16, 114-121.   | 1.0 | 4         |
| 13 | Machining Parameters Optimization of AA6061 Using Response Surface Methodology and Particle Swarm Optimization. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018, 19, 695-704.  | 2.2 | 47        |
| 14 | Application of particle swarm optimization and response surface methodology for machining parameters optimization of aluminium matrix composites in milling operation. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2017, 39, 3541-3553.                | 1.6 | 34        |
| 15 | Experimental study on linear displacement measurement sensor using RGB color variation technique with PID controller. , 2017, , .   |     | 3         |
| 16 | Understanding Melt Flow Behavior for Al-Si Alloys Processed Through Vertical Centrifugal Casting. <i>Materials and Manufacturing Processes</i> , 2015, 30, 1305-1311.   | 4.7 | 12        |
| 17 | Effect of Rotational Speeds on the Cast Tube During Vertical Centrifugal Casting Process on Appearance, Microstructure, and Hardness Behavior for Al-2Si Alloy. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2015, 46, 793-799. | 2.1 | 8         |
| 18 | Selection Of Optimal Process Parameters In Ball Burnishing Of Titanium Alloy. <i>Machining Science and Technology</i> , 2014, 18, 464-483.  | 2.5 | 19        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Boiling induced nanoparticle coating and its effect on pool boiling heat transfer on a vertical cylindrical surface using CuO nanofluids. Heat and Mass Transfer, 2012, 48, 1549-1557.              | 2.1 | 10        |
| 20 | Investigations on heat transfer enhancement in pool boiling with water-CuO nano-fluids. Journal of Thermal Science, 2012, 21, 179-183.  | 1.9 | 13        |
| 21 | Experimental studies on CHF enhancement in pool boiling with CuO-water nanofluid. Heat and Mass Transfer, 2012, 48, 1031-1041.  | 2.1 | 27        |
| 22 | Flow Visualization, Critical Heat Flux Enhancement, and Transient Characteristics in Pool Boiling Using Nanofluids. , 2012, , 42-63.  |     | 0         |
| 23 | Inference of optimal speed for sound centrifugal casting of Al-12Si alloys. Jom, 2011, 63, 25-29.   | 1.9 | 4         |
| 24 | Influence of rotational speed of centrifugal casting process on appearance, microstructure, and sliding wear behaviour of Al-2Si cast alloy. Metals and Materials International, 2010, 16, 137-143. | 3.4 | 17        |
| 25 | Influence of rotational speed during centrifugal casting on sliding wear behaviour of the Al-2Si alloy. Frontiers of Materials Science in China, 2009, 3, 339-344.                                  | 0.5 | 7         |
| 26 | Influence of Welding Process Parameters on Microstructure and Mechanical Properties of Friction Stir Welded Aluminium Matrix Composite. Materials Science Forum, 0, 880, 50-53.                     | 0.3 | 17        |
| 27 | Influence of machine variables on the microstructure and mechanical properties of AA6061/TiO <sub>2</sub> friction stir welds. Advances in Materials and Processing Technologies, 0, , 1-16.        | 1.4 | 0         |