

# Karthik Rao M C

## List of Publications by Year in descending order

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27  
papers

295  
citations

1040056

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docs citations

27  
times ranked

283  
citing authors

#	ARTICLE	IF	CITATIONS
1	Machining Parameters Optimization of AA6061 Using Response Surface Methodology and Particle Swarm Optimization. International Journal of Precision Engineering and Manufacturing, 2018, 19, 695-704.	2.2	47
2	Application of particle swarm optimization and response surface methodology for machining parameters optimization of aluminium matrix composites in milling operation. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2017, 39, 3541-3553.	1.6	34
3	Experimental studies on CHF enhancement in pool boiling with CuO-water nanofluid. Heat and Mass Transfer, 2012, 48, 1031-1041.	2.1	27
4	Selection Of Optimal Process Parameters In Ball Burnishing Of Titanium Alloy. Machining Science and Technology, 2014, 18, 464-483.	2.5	19
5	Influence of Support Vector Regression (SVR) on Cryogenic Face Milling. Advances in Materials Science and Engineering, 2021, 2021, 1-18.	1.8	18
6	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
7	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
8	Investigations on heat transfer enhancement in pool boiling with water-CuO nano-fluids. Journal of Thermal Science, 2012, 21, 179-183.	1.9	13
9	Understanding Melt Flow Behavior for Al-Si Alloys Processed Through Vertical Centrifugal Casting. Materials and Manufacturing Processes, 2015, 30, 1305-1311.	4.7	12
10	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
11	Evaluation of Microstructure, Hardness and Mechanical Properties of Friction Stir Welded Al-Ce-Si-Mg Aluminium Alloy. Metals and Materials International, 2020, 26, 1394-1403.	3.4	10
12	An Experimental and Numerical Approach to Study the Performance of Modified Perforated Cutting Tools on Machining of Ti-6Al-4V Alloy. Arabian Journal for Science and Engineering, 2020, 45, 1191-1206.	3.0	9
13	Effect of Rotational Speeds on the Cast Tube During Vertical Centrifugal Casting Process on Appearance, Microstructure, and Hardness Behavior for Al-2Si Alloy. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2015, 46, 793-799.	2.1	8
14	Studies on the Effect of Process Parameters in Turning of Ti-6Al-4V Alloy Using Topsis. IOP Conference Series: Materials Science and Engineering, 2019, 577, 012069.	0.6	8
15	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
16	Parameter investigation and optimization of friction stir welded AA6061/TiO <sub>2</sub> composites through TLBO. Welding in the World, Le Soudage Dans Le Monde, 2022, 66, 93-103.	2.5	7
17	Effect of process parameters in face milling operation and analysis of cutting force using indirect method. Materials and Manufacturing Processes, 2018, 33, 1406-1414.	4.7	6
18	An Efficient Approach to Optimize Wear Behavior of Cryogenic Milling Process of SS316 Using Regression Analysis and Particle Swarm Techniques. Transactions of the Indian Institute of Metals, 2019, 72, 191-204.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Inference of optimal speed for sound centrifugal casting of Al-12Si alloys. Jom, 2011, 63, 25-29.	1.9	4
20	Forward and reverse mapping for milling process using artificial neural networks. Data in Brief, 2018, 16, 114-121.	1.0	4
21	Dataset on flank wear, cutting force and cutting temperature assessment of austenitic stainless steel AISI316 under dry, wet and cryogenic during face milling operation. Data in Brief, 2019, 26, 104389.	1.0	4
22	Experimental study on linear displacement measurement sensor using RGB color variation technique with PID controller. , 2017, , .		3
23	Application of back propagation algorithms in neural network based identification responses of AISI 316 face milling cryogenic machining technique. Australian Journal of Mechanical Engineering, 2020, , 1-8.	2.1	3
24	Advantages of cryogenic machining technique over without-coolant and with-coolant machining on SS316. Engineering Research Express, 2021, 3, 015040.	1.6	1
25	A comparative study of tensile properties of eutectic Al-Si / ZrO <sub>2</sub> composites fabricated by spray forming and stir casting methods. Advances in Materials and Processing Technologies, 2022, 8, 2684-2698.	1.4	1
26	Flow Visualization, Critical Heat Flux Enhancement, and Transient Characteristics in Pool Boiling Using Nanofluids. , 2012, , 42-63.		0
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