

# AKumar

## List of Publications by Year in descending order

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28  
papers

653  
citations

758635

12  
h-index

580395

25  
g-index

28  
all docs

28  
docs citations

28  
times ranked

454  
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-response optimization of process parameters based on response surface methodology for pure titanium using WEDM process. International Journal of Advanced Manufacturing Technology, 2013, 68, 2645-2668.	1.5	149
2	Surface crack density and recast layer thickness analysis in WEDM process through response surface methodology. Machining Science and Technology, 2016, 20, 201-230.	1.4	69
3	Multiple performance characteristics optimization for Al 7075 on electric discharge drilling by Taguchi grey relational theory. Journal of Industrial Engineering International, 2015, 11, 459-472.	1.8	55
4	Investigation of machining parameters and surface integrity in wire electric discharge machining of pure titanium. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 972-992.	1.5	50
5	MICROSTRUCTURE ANALYSIS AND MATERIAL TRANSFORMATION OF PURE TITANIUM AND TOOL WEAR SURFACE AFTER WIRE ELECTRIC DISCHARGE MACHINING PROCESS. Machining Science and Technology, 2014, 18, 47-77.	1.4	38
6	Mathematical modeling and analysis of WEDM machining parameters of nickel-based super alloy using response surface methodology. Sadhana - Academy Proceedings in Engineering Sciences, 2017, 42, 981-1005.	0.8	38
7	Semi-empirical model on MRR and overcut in WEDM process of pure titanium using multi-objective desirability approach. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2015, 37, 689-721.	0.8	35
8	Experimental Investigation on Material Transfer Mechanism in WEDM of Pure Titanium (Grade-2). Advances in Materials Science and Engineering, 2013, 2013, 1-20.	1.0	31
9	Material Removal Rate, Electrode Wear Rate, and Surface Roughness Evaluation in Die Sinking EDM with Hollow Tool through Response Surface Methodology. International Journal of Manufacturing Engineering, 2014, 2014, 1-16.	0.8	28
10	An Investigation into Machining Characteristics of Commercially Pure Titanium (Grade-2) Using CNC WEDM. Applied Mechanics and Materials, 0, 159, 56-68.	0.2	24
11	Parametric Effect on Wire Breakage Frequency and Surface Topography in WEDM of Pure Titanium. Journal of Mechanical Engineering and Technology, 2013, , 51-56.	0.2	23
12	Surface integrity and material transfer investigation of pure titanium for rough cut surface after wire electro discharge machining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 880-901.	1.5	16
13	Investigation of microstructure and element migration for rough cut surface of pure titanium after WEDM. International Journal of Microstructure and Materials Properties, 2013, 8, 343.	0.1	15
14	Investigation of machining characterization for wire wear ratio & MRR on pure titanium in WEDM process through response surface methodology. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2018, 232, 108-126.	1.4	15
15	A novel approach of GEF and GA for the optimization of multi-objective wire EDM process during the machining of DC53 super alloy. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 1119-1131.	1.4	13
16	Multi-response optimization of magnetic field assisted EDM through desirability function using response surface methodology. Journal of the Mechanical Behavior of Materials, 2020, 29, 19-35.	0.7	10
17	Experimental investigation of WEDM process through integrated desirability and machine learning technique on implant material. Journal of the Mechanical Behavior of Materials, 2021, 30, 38-48.	0.7	8
18	Effect of machining parameters on dimensional deviation in wire electric discharge machining process using pure titanium. Journal of Engineering & Technology, 2013, 3, 105.	0.1	7

#	ARTICLE	IF	CITATIONS
19	Investigation of Micro-Cracks Susceptibility on Machined Pure Titanium Surface in WEDM Process. Journal for Manufacturing Science and Production, 2016, 16, 123-139.	0.1	5
20	Investigation of wire electrical discharge machining of ZrSiO <sub>4</sub> /Al 6063 MMC. International Journal of Machining and Machinability of Materials, 2016, 18, 392.	0.1	5
21	Investigation of crack density, white layer thickness, and material characterization of biocompatible material commercially pure titanium (grade-2) through a wire electric discharge machining process using a response surface methodology. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2021, 235, 2073-2097.	1.4	5
22	Investigation and Optimization of Parameters in Micro-Finishing of Hybrid Al/SiC/B <sub>4</sub> C MMCs by Novel MAFM Process through RSM. Silicon, 2022, 14, 1191-1208.	1.8	5
23	Multi-objective optimization and Surface Morphology of M-42 AISI Steel Using Normal and Cryo-treated Brass Wire in Wire Cut EDM. Arabian Journal for Science and Engineering, 2021, 46, 2721-2748.	1.7	3
24	Investigation of biocompatible implant material through WEDM process using RSM modeling hybrid with the machine learning algorithm. Sadhana - Academy Proceedings in Engineering Sciences, 2021, 46, 1.	0.8	3
25	Experimental Investigation of Multiple Quality Characteristics of Laser Beam Machined Surface using Integrated Taguchi and Fuzzy Logic Method. Journal for Manufacturing Science and Production, 2016, 16, 189-199.	0.1	2
26	Modeling and Optimization of Turning Process Using White Coconut Oil as Metalworking Fluid Through Desirability Function. Lecture Notes in Mechanical Engineering, 2021, , 669-685.	0.3	1
27	Preliminary Investigation of Wire Cut EDM on Polycrystalline Silicon Ingot. Lecture Notes in Mechanical Engineering, 2021, , 813-824.	0.3	0
28	Mathematical Modeling and Optimization of Wire Electric Discharge Machining Parameters on Inconel 825 Using Desirability Method. Journal of Computational and Theoretical Nanoscience, 2020, 17, 2441-2450.	0.4	0